LIST OF
YORKSHIRE LEPIDOPTERA.

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ENTOMOLOGICAL TRANSACTIONS
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VOL. 2.

LIST OF
YORKSHIRE
LEPIDOPTERA.

GEORGE T. PORRITT, F.L.S., F.E.S.,

EX-PRESIDENT OF THE YORKSHIRE NATURALISTS' UNION.

SECOND EDITION.

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LIST OF YORKSHIRE LEPIDOPTERA.

PREFACE TO SECOND EDITION.

As twenty years have elapsed since the publication of the "List of Yorkshire Lepidoptera," it seems desirable that a Supplement to that List should now be published. Such Supplement, it appears to me, should consist of (I) a list with the necessary particulars of the additional species ; (II) a list of the additional localities of the hitherto known but more or less local species ; (III) remarks on that local variation in which so much interest has, from its extraordinary character, been taken by our students of the Lepidoptera during the past fifteen years or more.

That our county had been well worked is proved by the fact that the twenty years have only added fifty-three species to the former list, including one, *Scoparia ingratalis*, which is now, with good reason, only regarded as a variety of the common *S. pyralalis* ; and another, *Erastria fuscula*, which I can only as yet regard as a very doubtful Yorkshire species.

For obvious reasons the same arrangement, nomenclature, and abbreviations are adopted as in the former list.

The new species then, denoted by a * in the Supplement List, stand as follows :—

Sphinx pinastri,
Ennomos autumnaria,
Boletobia fuliginaria,
Fidonia pinetaria,
Eupithecia isogrammata,
Thera juniperata,

Melanippe unangulata,
Xylophasia zollikoferi,
Laphygma exigua,
Heliothis peltigera,
Erastria fuscula,
Spilodes palealis,
Scoparia ingratalis,
Crambus sylvellus,
Crambus uliginosellus,
Ephestia kühniella,
Tortrix diversana,
Peronea maccana,
Penthina ochromelana,
Spilonota rosæcolana,
Sciaphila sinuana,
Phoxopteryx siculana,
Phoxopteryx diminutana,
Ephippiphora tetragonana,
Semasia janthinana,
Coccyx cosmophorana,
Coccyx nanana,
Retinia turionana,
Dicrorampha saturnana,
Dicrorampha acuminatana,
Lobesia servillana,
Eupæcilia dubitana,
Eupæcilia vectisana,
Psyche opacella,
Nemotois fasciellus,
Depressaria weirella,
Gelechia tetragonella,
Gelechia sangiella,
Butalis grandipennis,
Röslerstammia erxlebenella,
Gracilaria omissella,

Coleophora bicolorella,
 Laverna raschkiella,
 Laverna phragmitella,
 Elachista paludum,
 Lithocolletis cavella,
 Lithocolletis sorbi,
 Lithocolletis cerasicolella,
 Lithocolletis torminella,
 Bucculatrix frangulella.
 Nepticula serella,
 Pterophorus punctidactylus,
 Pterophorus paludum.

Of these fifty-three the great majority, as might be expected, belong to the Micro-lepidoptera; only eleven belong to the "macros," and of them, seven at least, *S. pinastri*, *E. autumnaria*, *B. fuliginaria*, *F. pinetaria*, *X. zollikoferi*, *L. exigua*, and *E. fuscula*, cannot be regarded as anything more than "casuals." Of the "micros," the discovery of several not only added them to the Yorkshire, but to the British List; one of them, indeed, *G. tetragonella*, was new to science, and another, *N. serella*, was practically so.

Against the new additions, there were ten species included in the original list, which on further investigation and experience, I am now convinced ought never to have been included, as follows:—

Acidalia interjectaria,
 Nonagria cannæ,
 Cledeobia angustalis,
 Stenia punctalis,
 Phycis ornatella,
 Ebulea verbascalis,
 Orthotænia antiquana,
 Retinia resinana,
 Conchylis gigantana,
 Pterophorus phæodactylus.

Besides these, the following species had better be regarded as recorded in error, until confirmed by further undoubted specimens :—

Sesia apiformis,
Nola strigula,
Emmelesia tæniata,
Phibalapteryx polygrammata,
Hadena genistæ.

Deleting these fifteen species will leave a net addition of thirty-eight to the original list, or a total of 1379 for Yorkshire.

The new localities have largely increased our knowledge of the distribution of many species in our county; and the "light" traps used so systematically at Everingham by Mr. J. Sumner have also proved that many species which we formerly considered to be rare, are in reality quite common. This method of capture had never been much worked in Yorkshire until Mr. Sumner adopted it, and as it immediately proved an irresistible attraction to many species which were formerly comparatively seldom taken, the inference is, that the same method of work would be equally successful in other districts. When it is seen that such species as *Lithosia complanula*, *Pacilocampa populi*, *Notodonta dictæoides*, *Luperina cespitis*, *Tæniocampa opima*, *Cirrædia xerampelina*, *Petusia cassinea*, *Pericallia syringaria*, *Ennomos angularia*, *Nyssia hispidaria*, *Amphydasis prodromaria*, *Timandra amatoria*, *Melanippe unangulata*, and many others, were taken in abundance in the traps by Mr. Sumner, it will be at once realised what a valuable adjunct this method of capture may be made. Perhaps it is fortunate too that nearly all the specimens taken at "light" are males, as the females are thus left to deposit their eggs, and to perpetuate their species. Why the females should fail to be attracted, except in comparatively rare instances, is not easily accounted for, but such is the case.

Through the work too of Messrs. T. Ashton Lofthouse, F. Elgee, W. Sachse, and others, we have learned a good deal about the species occurring in Cleveland, an important area of our county, in which, except in one or two localities, but little had been done at the time of the publication of the former list. Mr. B. Morley too, has done splendid work at Skelmanthorpe, an outlying part of the Huddersfield district, but in many respects different in character to the parts of that district which had for many years been worked so assiduously and well. It is not surprising, therefore, that Mr. Morley turned up a number of species which were rare, and some which were altogether absent, even only several miles away, notably *Xanthia aurago* and *Eupheria fulvago*, though as the latter is evidently rapidly extending its range, it is likely enough that it has only very recently reached Skelmanthorpe.

The micro-lepidoptera have had two excellent workers in the Rev. C. D. Ash and Mr. H. H. Corbett, but unfortunately these gentlemen appear to be the only lepidopterists who have done any systematic work in the group. They have, however, had a good coadjutor in Mr. J. Sumner, who, although not specially interested in micros himself, took the trouble to set and get named such species as came into his moth traps, and thereby did much valuable service. By one or another, many old and single records have been confirmed by captures in new localities; but in the group there is still very much to be done, and there is no doubt whatever, that with more workers, many additional species would still be added to our list; and it is not too much to expect they would include some new to Britain, and possibly new to science.

Perhaps no subject in connection with Lepidoptera has proved of greater interest to Yorkshire lepidopterists, and especially to those of the Western division, than Melanism. Towards twenty years ago, it began to be noticed that various species of which a black or nearly black specimen had occasionally been taken, were producing these dark forms in increasing numbers, several of them rather rapidly. Long before then, indeed, a perfectly black form of *Amphylasis betularia* was well known, but at that time was so comparatively seldom taken as to be regarded as a rarity. Now it has not only become the dominant form, but in probably most of the South West Riding area has practically altogether ousted the original pale ordinary form. In the Huddersfield district, I have only seen one pale specimen during the past eight or nine years, and a typical specimen is quite a rarity now compared with what the black form was even in the time of my collecting experience. Other species which are going rapidly in the same direction are, *Phigalia pilosaria*, *Boarmia repandata*, *Tephrosia biundularia*, *Hybernia progemmaria*, *Oporabia dilutata*, *Larentia multistrigaria*, *Thera variata*, *Acronycta rumicis*, *Polia chi*, *Hydrocampa nymphæalis*, and *Diurnea fagella*, and in some of these indeed in the South Western division, the black specimens seem already to preponderate. Besides these there are several species which, although comparatively pale in most counties in Britain, have been darker in Yorkshire, so far as we know, ever since any interest was taken in lepidoptera. Among them may be mentioned *Boarmia rhomboidaria*, *Scodiona belgiaria*, *Melanippe tristata*, *Cidaria testata*, *Notodonta camelina*, *Notodonta dromedarius*, *Notodonta dodonea*, *Acronycta leporina*, *Apamea oclea* (in the South West), *Miana strigilis*, *Epanda viminalis*, etc., and whether they too were originally pale with us, we are now unable to determine. The species in our county in which Melanism has become so strongly developed that in various districts

black, or nearly black specimens are now regularly obtained, are :—

Odontopera bidentata,
Phigalia pilosaria,
Amphydasis betularia,
Boarmia repandata,
Tephrosia biundularia,
Venusia cambricaria,
Hybernia progemmaria,
Oporabia dilutata,
Larentia multistrigaria,
Eupithecia castigata,
Eupithecia albipunctata,
Hypsipetes impluviata,
Hypsipetes elutata,
Cidaria russata,
Cidaria immanata,
Acronycta megacephala,
Acronycta ligustri,
Acronycta rumicis,
Acronycta menyanthidis,
Xylophasia polyodon,
Apamea oculatea,
Miana strigilis,
Epunda viminalis,
Hydrocampa nymphæalis,
Scoparia mercurialis,
Tortrix pyrastrana,
Sciaphila virgaureana,
Sciaphila octomaculana,
Diurnea fagella.

Other species of which specimens so much darker than the typical forms are so frequently taken as to indicate that they too are gradually being influenced towards the same end, include :—

Hepialus hectus (the female),
Arctia fuliginosa,
Arctia mendica,
Arctia lubricipeda,
Bombyx quercus (var. *callunæ*),
Ennomos fuscantaria,
Fidonia atomaria,
Abraxas ulmata,
Hybernia aurantiaria,
Hybernia defoliaria,
Eubolia palumbaria,
Cymatophora diluta,
Xylophasias rurea,
Agrotis segetum,
Agrotis tritici,
Polia flavocincta,
Agriopsis aprilina,
Aplecta nebulosa,
Hadena dentina,
Cloantha solidaginis,
Scoparia cembræ,

and probably many of the micro-lepidoptera.

As has already been stated this melanism is in Yorkshire far more prevalent in the South West than in other parts, and except in similar districts in Lancashire occurs but little anywhere else in Britain. Many theories have been advanced to account for it, but none of which seem to be thoroughly satisfactory. As, however, it has been clearly shown that melanism prevails far more in the manufacturing districts of Lancashire and Yorkshire, and consequently where the atmosphere is largely polluted with smoke, than elsewhere, my own inclination leans to the theory that this smoke, along with damp, is the most probable cause. The trees, walls, moorlands, etc., in these districts become so

blackened by the soot which sticks to them through the rain and damp, that the pale forms which rest on trunks of trees, walls, and the dark herbage of the moors, are by the now generally accepted theory of the "survival of the fittest," gradually eliminated, and only the dark forms left. But that this theory is far from proved is evidenced by exceptions so marked, as sufficient no doubt to cause its rejection by many. As an instance, the form of *Acronycta menyanthidis* which occurs right in the area of melanism in our smoky South West district, and where it is common, is almost invariably of the palest form we know, and a black specimen is never seen; whereas on the heaths near York and Selby, where there is practically no smoke, the black form is abundant, and Mr. Samuel Walker informs me that at York no specimen is ever seen so pale as the West Yorkshire moth. The same applies to *Abraxas ulmata* at Sledmere, the ordinary pale form only occurring in South West Yorkshire. Melanism is also developed in several other North and East Yorkshire species, but as it is in species which do not occur in the southern districts, the same comparisons cannot be made.

Moreover, there are at least two species common in South West Yorkshire which are distinctly paler than in most of the southern counties. The yellow colour in the male *Fidonia pinivaria*, so prevalent all over the south of England, is replaced in all our northern counties by pure white; and the Dover district is the only known locality where *Cidaria suffumata* occurs as pale as it is in South Yorkshire. Yorkshire *Strenia clathrata* too have a pure white ground colour as against a yellow ground colour in the southern counties; and the York *Lithosia helveola* are paler than elsewhere.

It is satisfactory to note that the scientific importance of melanism is so great, that the Royal Society has appointed a Committee to, if possible, thoroughly investigate its causes.

A considerable amount of information has been forwarded from our own county, and with Professor Bateson at the head of the Committee, we may hope with confidence that some satisfactory solution may be forthcoming.

It now remains for me to thank most sincerely all the numerous lepidopterists, whose names are appended, in addition to some of those whose names appear in the original list, who have so willingly furnished the localities and information which have enabled me to place on record, I think with tolerable accuracy, what we know of the lepidopterous fauna of our county at this time. It is a satisfaction to know too, as will be judged from the list of helpers, that the devotees of this fascinating branch of natural history science, show no sign of diminishing numbers.

- Angel, Arthur, 2, Waverley St., Groves, York. A.A.
 / Ash, Rev. Cyril D., B.A.,
 Skipwith Vicarage, near Selby. C.D.A.
 Barker, Reginald H.,
 Grosvenor Bank, Scarborough. R.H.B.
 Beanland, J., 7, Oulton Terrace, Keighley. ... J.B.
 Booth, F., Alexandra Square, Saltaire. ... F.B.
 / Boulton, J. W., 50, Washington Street, Hull. ... J.W.B.
 / Brady, L. S., 68, Hunter House Road, Sheffield. L.S.B.
 Broadley, A., Keighley. A.B.
 Cauldwell, C., 1, Park Avenue, Hull. ... C.C.
 Clutton, W. G., 10, Hallowell Street, Burnley... W.G.C.
 Corbett, H. H., M.R.C.S.,
 9, Priory Road, Doncaster. H.H.C.
 Dennis, George C. (the late), York. ... G.C.D.
 Elgee, F., 23, Kensington Road, Middlesbrough. F.E.
 Emsley, F., 1, Victoria Terrace,
 Belle Vue Road, Leeds. F.E.
 Fieldhouse, T., 24, Washington Street,
 Girlington, Bradford. T. Fieldhouse.

- Gibson-Robertshaw, A., Ellenroyde, Midgley,
Luddenden Foot. A. G-R.
- Hall, A. E., F.E.S., Norbury, Pitsmoor,
Sheffield. A.E.H.
- Halliday, E., Salisbury Place,
Akroydon, Halifax. E. Halliday.
- Hawkins, J., Tower Street, York. ... J. Hawkins.
- Hewett, William, 12, Howard Street, York. ... W.H.
- Jackson, George (the late), York. ... G.J.
- Johnson, W., 4, St. John Street, Beverley. ... W.J.
- Lowther, J. R., Crane Hill, Beverley. ... J.R.L.
- Lofthouse, T. Ashton, F.E.S., The Croft,
Linthorpe, Middlesbrough. T.A.L.
- Mansbridge, W., 27, Elenbank Road,
Sefton Park, Liverpool. W.M.
- Meldrum, T., Ripon. ... T.M.
- Morley, B., Wind Mill, Skelmanthorpe,
Huddersfield. B.M.
- Pickering, W. J. ... W.J.P.
- Porter, J., 60, Tadman Street,
Hessle Road, Hull. J. Porter.
- Sachse, W., 17, Kensington Road, Middlesbrough. W.S.
- Sumner, J., St. Andrews, Ilketshall,
Bungay, Suffolk. J. Sumner.
- Thompson, Ben Blaydes, 6, Benson Road,
Forest Hill, London, S.E. B.B.T.
- Tunstall, Wilmot, F.E.S., Brook House,
Meltham, near Huddersfield. W. Tunstall.
- Walker, Samuel, Queen Anne's Road, York. ... S.W.
- Whitaker, Arthur, Saville House,
Worsborough, near Barnsley. A.W.
- Wigin, J., Methley, near Leeds. ... J.W.
- Wright, Albert E., 60, Tentre Street, Burnley. A.E.W.
- Yorkshire Naturalists' Union. ... Y.N.U.
- Young, J. N. (the late), Rotherham. ... J.N.Y.

I have also to express my indebtedness to my friend Mr.
W. Denison Roebuck, F.L.S., for valuable suggestions and

assistance during the passing of the "Supplement" through the press.

In the preface to the original list it was stated that probably our four best localities for general collecting were Askham Bogs, Edlington Wood, Bishop's Wood, and Thorne Waste. To these may now be added Everingham, Sandburn, Sledmere, and Wheatley Wood. It may be explained too that this last locality—Wheatley Wood—is the same wood, near Doncaster, which in the original list was designated as the Green Farm Wood. It is now almost universally known as Wheatley Wood, it has therefore been thought best to call it by that name in the "Supplement."

HUDDERSFIELD,

31st December, 1903.

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THE YORKSHIRE NATURALISTS' UNION.

VOL. 2.

LIST
OF
YORKSHIRE
LEPIDOPTERA.

BY

GEORGE T. PORRITT, F.L.S.,

¹¹⁾
MEMBER OF THE ENTOMOLOGICAL SOCIETY OF LONDON; PRESIDENT OF THE
ENTOMOLOGICAL SECTION OF THE YORKSHIRE NATURALISTS' UNION.

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BY TAYLOR BROTHERS.

1883.

A LIST OF THE LEPIDOPTERA KNOWN TO OCCUR IN YORKSHIRE.

BY G. T. PORRITT, F.L.S.,

President, Entomological Section, Yorkshire Naturalists' Union.

For four years, except when the state of my health has prevented it, I have been carefully collecting all the information I could respecting the lepidopterous fauna of our large county. And as a good portion of the county has been fairly well worked for many years, the result is a highly satisfactory list. I have to thank most sincerely kind friends all over the county for sending me the results of their investigations; and I have also culled largely from nearly all the available entomological literature. Specially must I acknowledge my great indebtedness to Mr. W. Denison Roebuck, the energetic secretary of our union, who for many years has assiduously collected together as published, nearly all the information relating to the entire fauna of Yorkshire. His collected records of the lepidoptera would of themselves have made a fair county catalogue, and he unreservedly placed them all in my hands for incorporation in the present list.

Many species and localities given in some of the older works, and indeed in some of the more recent records, I have been compelled to omit, the evidence in such cases not appearing to me to be sufficiently conclusive to warrant them a place.

In most cases I have thought it advisable to give an authority for the species, though in a great many instances the species and localities are also vouched for by several other lepidopterists

Generally the name of the town is given as sufficiently indicating the locality of the species, but in such well-known and favourite collecting grounds as Askham Bog, Edlington Wood, Bishop's Wood, Thorne Waste, etc., these are given in preference for such species as are known to occur there, though frequently they will also be found all round the adjoining city and towns of York, Doncaster, Selby, and Goole, respectively. I consider the four localities just alluded to about the best in our county for general collecting, we know at present. Of Askham Bog, Mr. W. Prest says he "never met with a place more prolific in insect life." And Mr. William Warren, of Cambridge, who collected at Doncaster from 1866 to 1876, says he knows "no place so rich in species, for so small a compass, as a small wood, one-and-a-half miles out of the town of Doncaster." Probably in the future, however, other at present comparatively unexplored spots will prove to be equally productive. The most unproductive parts are undoubtedly the cold, clayey districts of the South West Riding, and the paucity of lepidopterous life in them is certainly very discouraging to an enthusiastic student.

Mr. N. F. Dobrée's "Beverley" must often be understood to include the district of Holderness generally; while Mr. A. Doncaster's "Sheffield" takes in a considerable radius round that town, in order to include several favourite localities of the old Sheffield collectors, some miles distant.

For the sake of brevity I have generally given the initials of the person who vouches for the locality of a species, the lepidopterists thus represented being as follows:—

Allis, T. H. (the late), of York.		T.H.A.
Birchall, Edwin, F.L.S., Derby Square, Douglas,		
Isle of Man, formerly of Leeds.		E.B.
Butterfield, E. P. P., Wilsden, Bingley.		E.P.P.B.
Carrington, J. T., F.L.S., Royal Aquarium,		
Westminster, London.		J.T.C.
Carter, J. W., 24, Valley Street, Valley Road,		
Bradford.		J.W.C.

Clarke, Wm. Eagle, F.L.S., 5, East View, Hyde Park Road, Leeds.	W.E.C
Cook, Robert, 30, Collier Gate, York.	R.C.
Dobrée, N. F., The New Walk, Beverley.	N.F.D.
Doncaster, Arthur, 36, Strand, London, W.C., formerly of Sheffield.	A.D.
Dunning, J. W., M.A., F.L.S., 12, Old Square, Lincoln's Inn, London, W.C.	J.W.D.
Foster, Thomas, 6, Wren Lane, Selby.	T.F.
Grassham, John, 11, Meanwood Street, Leeds. ...	J.G.
Harris, Rev. G. P., M.A., Hawes Vicarage, Bedale, formerly of Richmond.	G.P.H.
Harrison, John, 7, Victoria Bridge, Barnsley. ...	J.H.
Hartley, Bernard, Park View, Pontefract.	B.H.
Hawley, J., 55, Hall Gate, Doncaster.	J. Hawley.
Hebson, R., Selby.	R.H.
Horton, Rev. E., Wick, Worcester.	E.H.
Inchbald, Peter, F.L.S., Fulwith Grange, Harrogate, formerly of Huddersfield.	P.I.
Lawson, Major, High Street, Bridlington.	M.L.
Lawton, P. W., Easington, Hull.	P.W.L.
Madden, Rev. G. C. B., B.A., Armitage Bridge Vicarage, Huddersfield.	G.C.B.M.
Morris, Rev. F. O., Nunburnholme Rectory, York.	F.O.M.
Mosley, S. L., Beaumont Park, Huddersfield. ...	S.L.M.
Pickles, James, Woodhouse Hill, Hunslet, Leeds.	J.P.
Porritt, G. T., F.L.S., Huddersfield.	G.T.P.
Prest, William, 13, Holgate Road, York.	W.P.
Richardson, C. W., St. John's Grove, Wakefield.	C.W.R.
Rockett, Miss Kate, Snaith Hall, Selby.	K.R.
Roebuck, Wm. Denison, Sunny Bank, Leeds. ...	W.D.R.
Rowntree, J. H., Westwood, Scarborough.	J.H.R.
Sang, John, 6, Chestnut Street, Darlington. ...	J. Sang.
Smethurst, Charles, 25, Chatham Street, Leeds. ...	C.S.
Smith, John, Bramham.	J.Sm.
Talbot, William (the late), Mount Pleasant, Wakefield.	W.T.

Taylor, John W., Potternewton Lodge, Leeds. ...	J.W.T.
Taylor, W. H., of London, formerly of Leeds. ...	W.H.T.
Tyers, George, 68, Belle Vue Road, Leeds. ...	G.T.
Varley, James (the late), Almondbury Bank, Huddersfield. ...	J.V.
Warren, William, 51, Bridge Street, Cambridge, formerly of Doncaster. ...	W.W.
Wilkinson, Thomas (the late), Scarborough. ...	T.W.
Wilson, Thomas, Holgate, York.	T. Wilson.

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

- Entomologist. Series.
- Entomologist's Annual. 1855 to 1873.
- Entomologist's Monthly Magazine. Series.
- Entomologist's Weekly Intelligencer. 1856 to 1861.
- Hobkirk's "Huddersfield, its History and Natural History." 1868.
- Morris's "British Butterflies and Moths."
- Naturalist. Old and New Series.
- Newman's "British Butterflies." 1871.
- Stainton's "Manual of British Butterflies and Moths." 1857.
- Transactions of Yorkshire Naturalists' Union. 1877 to 1880.
- Young Naturalist. 1879 to 1882.
- Yorkshire Naturalist's Recorder. 1872-3.
- Zoologist. Series.

The arrangement followed is that of M. Guenée, as compiled by the late Mr. Henry Doubleday in his "Synonymic List of British Lepidoptera," that arrangement being the one adopted in my own collection, and probably in most others in our county.

I believe that so far as the macro-lepidoptera are concerned, the list will be as nearly accurate as it is possible to make it; and I have no hope that many more additions will be made to the number of species. Of the micro-lepidoptera I cannot speak with as much certainty, as I know but little about the Tortrices, and still less about the Tineina, and have consequently had to rely

almost entirely on the lists supplied and on published information, without being able to give them the thoroughly sifting process applied to the macro-lepidoptera. The group has been but very imperfectly worked, and although the list is probably a nearly accurate one of what is known, the next few years will doubtless add considerably to it.

An analysis of the entire list shews that we have 1343 known Yorkshire species out of 2031 British species, made up as follows :—

	Yorkshire.		British.
Diurni	48	out of	64
Nocturni	80	,,	112
Geometræ	207	,,	278
Drepanulæ	3	,,	6
Pseudo-Bombyces	19	,,	27
Noctuæ	225	,,	309
Deltoides	8	,,	14
Aventiæ	1	,,	1
Pyalides	46	,,	75
Crambites	39	,,	80
Tortrices... ..	201	,,	334
Tineina	447	,,	700
Pterophorina	18	,,	31
Alucitina	1	,,	1
	<hr/>		<hr/>
	1343		2031

The abbreviations used by Mr. Stainton, in his "Manual," thus :—

! signifying common,

!! signifying abundant,

as being those to which we are most accustomed, are adopted. But it must not be supposed for localities where these signs do not appear, that the species in them is necessarily not "common" or "abundant," for in many, indeed in most, lists sent in, there was no indication whatever given as to the relative scarcity or abundance of species.

I purposely avoid saying anything about the geology or botany of our county, as, although they have of course interesting relationship to, and close connection with, the lepidopterous fauna, they have already been fully dealt with by other members of our Union, in other portions of our "Transactions," or in separate works which treat of the respective branches of science.

LEPIDOPTERA.

DIURNI.

Papilio Machaon *L.* There is satisfactory evidence that this fine species formerly occurred with us, although it has long been extinct. At page 27 of Haworth's "*Lepidoptera Britannica*" (1803) we read "I know *Machaon*, the common swallow-tailed *Papilio*, breeds near Beverley yet, and my brother-in-law, R. Scales, of Walworth, near London, possesses a specimen of it which was taken there seven years since."

Leucophasia sinapis *L.* Rare. Once near Doncaster in 1837 (*Morris's Brit. Butt.*, p. 29); Huddersfield, one (*P.L.*); Sheffield (*A.D.*)

Pieris brassicæ *L.* Abundant everywhere.

Pieris rapæ *L.* Abundant everywhere.

Pieris napi *L.* Abundant everywhere.

Anthocharis cardamines *L.* Generally common throughout the county, but less so in some parts of the West Riding.

Gonepteryx rhamni *L.* Of general occurrence (except in the coal districts of the West Riding, where it is rare), but scarcely so common as the last.

The variety **Cleopatra** occurred at Thrybergh Park, near Rotherham, June 27th, 1860 (*Rev. H. A. Pickard, Ent. W. Int.*, viii. 171-2, *Sep.* 1860).

Colias Edusa *Fab.* This species is of very irregular appearance, but has occurred in all parts of the county. In 1877 it was especially plentiful, and probably there was scarcely a district unvisited by it. Some of the localities given are as follows:—Arthington, several in 1877 (*C.S.*); Askern (*W. Nelson*); Barnsley (*J.H.*); Batley (*Oscar Wildsmith*);

Bingley (*E.P.P.B.*); Bolton Abbey (*G. Roberts*); Bradford (*J.W.C.*); Bramham (*J.Sm.*); Bridlington (*M.L.*); Flamborough Head, about a score on June 27th 1877 (*W.B. Turner*); Goole (*H. F. Parsons*); Huddersfield, one in my own collection, taken at Shepley in 1870 (*G.T.P.*); a few previously and several in 1877 (*Hobkirk's History of Huddersfield, G.T.P. and S.L.M.*); Hull (*J. Young*); Ilkley (*B.H.*); Lartington (*J. Gardner*); Leeds (*J.G.*); Pontefract (*B.H.*); Raskelf (*G.T.*); Richmond (*G.P.H.*); Scarborough (*T.W.*); Selby (*T.F.*); Sheffield (*A.D.*); Spurn Head, occasionally (*W.E.C.*); Wakefield, quite common in 1877 (*W.T.*); Wath-upon-Deane (*H. Payne*); York (*W.P.*)

The variety **Helice** has occurred at Richmond (*J. Sang*); two at Wakefield, in 1877 (*H. Lumb*); and two at York, in 1877 (*Messrs. Hind.*)

Colias Hyale *L.* Very rare, but has occurred at Heslington Field, near York, eight specimens in 1842 (*R.C., Zool., 1847, v. 1844*), also Sept. 3rd, 1842 (*T. H. Allis, in Newman's Entom., Dec., 1842*); Horningsea (*W.W.*); Selby (*R.H. and T.F.*); and York (*Mr. Robinson in Stainton's Manual*).

Argynnis Paphia *L.* Distributed, but not by any means common.

Bishop's Wood (*J.G.*); Edlington Wood (*J.H.*); Huddersfield, very rare (*P.I.*); Maltby, Sheffield (*A.D.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*J.H.R.*); Wakefield, rare (*W.T.*); York (*R.C., Entom., Feb., 1842*).

Argynnis Aglaia *L.* Perhaps still rarer than the last.

Flamborough Head (*E.H.*); Maltby, Sheffield (*A.D.*); Pontefract (*B.H.*); Scarborough (*J.H.R.*); Selby (*R.H. and T.F.*); Wakefield, rare (*W.T.*); Whitby! (*W.E.C.*); York (*W.P., Entom., x. 130*).

Argynnis Adippe *Fab.* Bishop's Wood (*W.E.C.*); Scarborough (*T.W.*); Sheffield (*A.D.*); Pontefract (*B.H.*); York (*R.C.* and *Stainton's Manual*).

Argynnis Lathonia *L.* Two specimens of this very rare species are recorded. One on Oliver's Mount, Scarborough, in September, 1868 (*J.H.R.*); the other near York (*E.B.*, *Newman's "Butterflies,"* p. 35).

Argynnis Euphrosyne *L.* Occurs in many places, but is not often common.

Askham Bog (*W.P.*); Bishop's Wood !! (*J.G.*); Bramham ! (*J.S.*); Castle Howard (*W.P.*, *Nat.* v. 176); Doncaster (*J.H.*); Goole (*H. Hall*); Huddersfield, very rare (*J.V.*); Richmond (*J. Sang*); Roche Abbey (*W. H. Smith*, *Ent. W. Int.*, iv. 85); Scarborough (*J.H.R.*); Sheffield (*A.D.*); Wakefield, rare (*W.T.*); York (*W.P.*, *Ent. W. Int.*, 1858, p. 123).

Argynnis Selene *Fab.* Askham Bog (*W.P.*); Bawtry (*J.H.*); Bishop's Wood (*J.G.*); Bramham Park (*W.H.T.*); Edlington Wood (*F. O. Morris*, *Brit. Butt.*, 1860, p. 108); Sandbeck Park (*John Heppenstall*); Scarborough (*J.H.R.*); Sheffield (*A.D.*); Pontefract (*B.H.*); Tadcaster; York (*W.P.*, *Ent. W. Int.*, iv. 123).

Melitæa Artemis *Fab.* Askham Bog (*W.P.*); Leeds (*E.B.*); Hunslet, one in Middleton Wood (*J.P.*); Sandbeck Park, Lord Scarborough's (*John Heppenstall*, *Newman's Entom.*, Aug., 1842); Selby, (*R.H.* and *T.F.*); Sheffield (*A.D.*); York (*W.P.*)

Vanessa C-album *L.* Distributed, but only common in a few localities.

Has occurred at Adel Blackmoor, near Leeds (*W.H.T.*); Askham Bog, "in the rough field adjoining the middle bog" (*W.P.*); Bishop's Wood (*J.G.*); regularly at Doncaster (*J. Hawley*); Green Hammerton,

sometimes abundant (*John Harrison, of Wilstrop Hall*); Halifax (*E.B., Newman's "Butterflies," p. 151*); Helmsley, abundant on September 5th, 1872 (*F. Raine, Entom., vi. 236*); Pocklington (*A. W. Griggen, Ent. W. Int., 1858, p. 179*); Pontefract (*B.H.*); Rotherham, abundant in 1856 (*W. Thomas, Ent. W. Int., i. 180, 1856*); Scarborough!! (*T. W.*); Sheffield (*A.D.*); Wakefield (*W. T.*); Whitby! (*W.E. C.*)

***Vanessa urticæ* L.** More or less common all over the county.

Mr. John Grassham took the variety No. 3 of Newman's "Butterflies," at Bishop's Wood; and Mr. S. L. Mosley records a peculiarly dark variety at Bradford, in 1877.

***Vanessa polychloros* L.** Not uncommon, but not often taken in numbers.

Barnsley (*J.H.*); Bishop's Wood (*J.G.*); Bradford, rare (*J.W.C.*); Doncaster (*J. Hawley*); Halifax (*Newman's "Butterflies"*); Huddersfield (*G.T.P.*); Horbury (*G.T.P.*); Leeds (*J.G.*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*W.P.*)

***Vanessa Antiopa* L.** This fine and rare species has at different times been taken in almost every part of the county. In 1872 it occurred in numbers all over England, and in our own county was almost common, being observed or taken at the following places:—

Barnsley, six specimens (*J.H.*); two of these are in my own cabinet (*G.T.P.*); Beverley, in numbers (*F. Boyes*); Bradford (*J.W.C.*); Cleckheaton (*J. Firth*); Driffield (*W. H. Jennings*); Helmsley, two (*F. Raine*); Hornsea (*F. Boyes*); Huddersfield, several (*G.T.P.* and *S.L.M.*); Hull; Keighley (*J. T. Calvert*); Leeds, several (*J.G.*); Malton, seven (*W.P.*); Richmond (*G.P.H.*); Saltburn; Scarborough, two (*J.H.R.*); York,

four (*W.P.*); Wakefield (*W.T.*); and in many other places.

Other records include in 1858, Brough (*T.H.A.*); Huddersfield—and another in March, 1859 (*J.V.*); Ossett (*W. Ulyatt*); Pocklington (*A. W. Griggen*); Redcar (*E. J. Martin*); Whitby, several (*W.E.C.*). At Edlington Wood, Doncaster, in 1875 (*J.H.*); Kirkstall, in 1875 (*C. W. Liversedge*); Filey, in 1876 (*G. D. Armitage*); Bramham, in 1879 (*J.Sm.*); Bradford, two in 1880; York, two in 1880; Barden Tower, in Wharfedale, 1881 (*E.P.P.B.*); Doncaster (*J.G.*); Ripon, two (*R. Blakeborough*); Selby (*C.S.*); Sheffield (*A.D.*); and Tadcaster (*H. Wright*).

Vanessa io *L.* Not so abundant as in many counties, but occurs in greater or less numbers at Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*J.G.*); Bradford !! (*J. W.C.*); Bramham ! (*J.Sm.*); Bridlington (*M.L.*); Huddersfield (*G.T.P.*); Hunslet (*J.P.*); Knaresborough! (*W.D.R.*); Leeds (*E.B.*); Market Weighton (*W.P.*); Otley (*W.D.R.*); Ovenden (*John Hirst*); Pannal (*W.D.R.*); Pontefract (*R.H.*); Raskelf (*G.T.*); Richmond (*J. Sang*); Rigton (*G.T.*); Scarborough! (*J.H.R.*); Saltburn (*J.P.*); Sheffield (*A.D.*); Thirsk (*J.G.*); Wakefield (*W.T.*); Whitby (*W.E.C.*)

Vanessa Atalanta *L.* Generally common throughout the county.

Vanessa cardui *L.* Occurs periodically all over the county, and was very common everywhere in 1879.

Arge Galathea *L.* At one time a well-known Yorkshire butterfly, but now probably extinct.

“Near Beverley formerly, but probably extinct there” (*N.F.D.*). “I have taken *A. Galathea* at Marr, near Doncaster, and on Buttercrambe Moor, near Stamford Bridge” (*F. O. Morris*, “*British Butterflies*,” 1860, p. 34). “Formerly near Doncaster, but not found there now” (*A. Ecroyd*,

Newman's "British Butterflies"). "Maltby Wood, eighty in one day" (*William Laycock, Ent. W. Intelligencer*, 1858, p. 133). Taken at Maltby by Mr. A. Doncaster and others. Mr. W. H. Taylor mentions a specimen taken at Bramham Park many years ago. "Formerly abounded in the woods near Stamford Bridge, but has not been seen for some years" (*E.B., Entom.* v. p. 392). Said to have occurred frequently in a quarry near Tadcaster, York (*R.C., Newman's "British Butterflies,"* p. 80, and *Entom.*, 1842). Formerly at Scarborough (*E.B., Newman's "British Butterflies."*)

Erebia Blandina *Fab.* This northern species has long been known to occur in plenty at Grassington, in Upper Wharfedale, and on the occasion of the Yorkshire Naturalists' Union's visit there, on August 7th, 1882, was found to be as abundant as ever on the grassy slopes in the Grass High Wood; I took a beautiful series in splendid condition, as also did everyone else who wanted it (*G.T.P.*) Mr. Henry Denny also reports it from Whernside in Craven (*Mag. of Zoology and Botany*, 1837, i. 491), but there are no recent records of its occurrence there, possibly however because it has not been looked for.

Satyrus Aegeria *L.* Bramham (*J.Sm.*); Edlington Wood (*J.H.*); Huddersfield, formerly (*J.V.*); Ledsham! (*J.W.T.*); Pontefract (*B.H.*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); Wentbridge (*J.W.T.* and *G.T.*); York (*R.C., Entom.* 1842).

Satyrus Megæra *L.* Bishop's Wood (*J.G.*); Doncaster (*J.H.*); Flamborough Head! (*W.E.C.*); Goole (*G. Mobbs*); Huddersfield, formerly (*P.I.*); Hunslet, rather scarce (*J.P.*); Leeds, formerly at Gledhow (*W.H.T.*); Pannal (*W.D.R.*); Pontefract (*B.H.*); Scalby Mills (*G.T.*); Scarborough (*J.H.R.*); Sheffield (*A.D.*); Wakefield (*W.T.*); Whitby! (*W.E.C.*); York (*R.C., Entom.* 1842).

Satyrus Semele *L.* Abundant on the Castle Hill at Scarborough (*G.T.P.*); common at Great Almes Cliff (*J.P.*)

Formerly at Nafferton on the heath on the road to Pockthorpe (*F.O.M.*, "*British Butterflies*, 1860, p. 42).

Satyrus Janira *L.* Generally distributed; abundant in the East Riding, but less common in the West Riding. At Huddersfield it seems to be extinct, for although I saw it in abundance in a field at Almondbury many years ago, I have never seen a specimen there since.

Satyrus Tithonus *L.* Very common in the lanes, &c., on the east coast, but less plentiful in other districts.

Askham Bog (*W.P.*); Bishop's Wood (*J.G.*); Bramham (*J.Sm.*); Bridlington! (*M.L.*); Filey (*G.T.P.*); Hunslet! (*J.P.*); Methley! (*J.P.*); Raskelf!! (*G.T.*); Redcar (*J. Sang*); Scarborough! (*J.H.R.*); Sheffield (*A.D.*); Thorner (*J.W.T.*); Wakefield (*W.T.*); Whitby!! (*W.E.C.*)

Satyrus Hyperanthus *L.* Bishop's Wood!! (*J.G.*); Bramham! (*J.Sm.*); Edlington Wood! (*G.T.P.*); Huddersfield, formerly (*J.V.*); Ledsham (*J.W.T.*); Maltby Woods, near Sheffield!! (*W. Laycock*); Pontefract (*B.H.*); Raskelf (*G.T.*); Richmond (*G.P.H.*); Scarborough! (*J.H.R.*); Wakefield (*W.T.*)

Chortobius Davus *Fab.* Abundant nearly every year on Thorne Waste, near Goole (*G.T.P.*); Cottingham, near Hull (*J. C. Dale, Zoologist*); Hatfield Fens (*E.B., Newman's "British Butterflies," p. 100*); not uncommon at Hawes, Wensleydale (*G.P.H.*); and Mr. W. E. Clarke took a specimen about 1870, on Adel Moor, near Leeds, where it had probably been turned down.

Chortobius Pamphilus *L.* Distributed all over the county, but rare in some parts of the West Riding.

Thecla rubi *L.* Askham Bog (*W.P.*); Barden Moors, rare (*E.P.P.B.*); Pickering Valley (*J.H.R.*); Pontefract (*B.H.*); Sheffield (*A.D.*)

Thecla quercus *L.* Askham Bog (*W.P.*); Bishop's Wood (*J.G.*); Bramham! (*J.Sm.*); Doncaster (*W.W.*); Leeds (*E.B.*); Pontefract (*B.H.*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); Whitby!! (*W.E.C.*)

Thecla W-album *Illig.* Abundant in Edlington Wood, Doncaster, and adjoining lanes and field sides (*G.T.P.*); Roche Abbey! (*W. H. Smith, Ent. W. Int.*, iv. 85); Sheffield (*A.D.*); York (*Stainton's Manual*).

Polyommatus phlæas *L.* Commonly distributed throughout the county.

The white variety, **Schmidtii**, occasionally occurs; one in my own cabinet was taken at Huddersfield in 1871; another was in Mr. J. Varley's collection; and one is recorded by Mr. W. Clark, from Doncaster.

Lycæna Ægon *Bork.* Rather scarce.

Scarborough (*T.W.*); Selby (*R.H. and T.F.*); Sheffield, in old list (*A.D.*); near York (*W.P., Ent. W. Int.*, 1858, *p.* 123).

Lycæna Agestis *W.V.* Also an uncommon species.

Boston Spa (*Ent. W. Int.*, 1856, *p.* 173); Ledsham (*J.W.T.*); Richmond (*J. Sang*); Scarborough (*G.T.*); York (*R.C., Entom.*, 1842).

Mr. John Sang informs us that the Richmond specimens are of the form **Salmacis** *Steph.*

Lycæna Alexis *Hub.* Generally distributed, but very scarce in some parts of the West Riding.

Lycæna Alsus *Fab.* Boston Spa; Bramham! (*J.Sm.*); Scarborough!! (*T.W.*); Sheffield, in old list (*A.D.*); Sutton-under-Whitstone Cliff (*J.G.*); Wakefield (*W.T.*); ten miles from York (*R.C., Entom.*, 1842).

[**Lycæna Acis** *W.V.* This rare species, although it has never yet been found in Yorkshire, has occurred so near the county boundary that it deserves mention here. It used to be taken at Epworth, near Bawtry—in Lincolnshire—and if looked for would perhaps be found there still. “Several near Epworth, Bawtry” (*Samuel Hudson, Ent. W. Int.*, 1860, viii. 139). “In meadows (grass) at Epworth, between the 10th and 25th July, just before the grass is ready for the mower” (*Samuel Hudson, Zool.*, 1864).]

Lycæna Argiolus *L.* Usually not uncommon where the holly grows freely.

Huddersfield (*J.V.*); Ledsham (*J.G.*); Leeds, (*E.B.*); Richmond (*J. Sang*); Ripon (*G.T.*); Rotherham (*J.H.*); Scarborough (*J.H.R.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*Stainton's Manual*).

Nemeobius Lucina *L.* Local, but generally plentiful where it occurs.

Bramham ! (*J.Sm.*); Doncaster (*Alfred Ackroyd*); Maltby (*J.H.*); Pickering !! (*J.H.R.*); Roche Abbey !! (*W. H. Smith*); Sandbeck Park, Tickhill (*F.O.M.*); Scarborough (*E.B.*); Sheffield (*A.D.*).

Syricthus Alveolus *Hüb.* Bramham Park (*F. Oates*); Ledstone (*C.S.*); Pontefract (*B.H.*); Roche Abbey (*W. H. Smith*); Selby (*R.H.* and *T.F.*); Sheffield (*A.D.*); Wakefield (*W.T.*); near York (*W.P.*).

Thanaos Tages *L.* Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*G.T.*); Bramham (*J.Sm.*); Huddersfield, formerly common, but now apparently extinct (*J.V.* and others); Pannal (*J. W.T.*); Pontefract (*B.H.*); Raskelf (*G.T.*); Richmond (*J. Sang*); Roche Abbey (*W. H. Smith*); Scarborough ! (*J.H.R.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Hesperia Sylvanus *Fab.* Askham Bog (*W.P.*); Bishop's Wood (*J.G.*); Bramham! (*J.Sm.*); Edlington Wood (*J.H.*); Ledstone (*C.S.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough! (*J.H.R.*); Sheffield (*A.D.*); Thorne Waste (*J.H.*); Wakefield (*W.T.*).

Hesperia comma *L.* Not common.

Bishop's Wood (*J.G.*); "Scarborough and York" (*E.B., Newman's "British Butterflies," p. 173.*)

Hesperia linea *Fab.* Fairly common.

Askham Bog (*W.P.*); Bishop's Wood (*J.G.*); Bramham (*J.Sm.*); Filey (*G.T.*); Raskelf! (*G.T.*); Scarborough! (*J.H.R.*); Sheffield (*A.D.*); Thorner (*J.G.*); Wakefield, where a bone-coloured variety has also occasionally been taken (*W.T.*).

NOCTURNI.

Smerinthus ocellatus *L.* Askern (*S.D.B.*); Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*G.T.*); Bramham! (*J.Sm.*); Horsforth (*J.P.*); Huddersfield, rare (*G.T.P.*); Pannal (*W.D.R.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*T.IV.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Smerinthus populi *L.* Common all over the county.

Smerinthus tiliæ *L.* "Once near York" (*W. C. Hewitson, "Stephens' Illustrations"*).

Acherontia Atropos *L.* Occurs now and then in all parts of the county, and in the potato growing districts of the east and south east is sometimes very plentiful in the larva state.

Barnsley (*J.H.*); Beverley (*C. Williamson*); Boston Spa (*J. Blackburn*); Bradford (*J.W.C.*); Brantingham, abundant in 1865 (*J. C. Kingston*); Bridlington (*M.L.*); Brockholes, in 1882 (*J.V.*); Cawood (*C.S.*); Driffield (*F.O.M.*); Easingwold (*G.T.*); Filey (*J. Bell*); Goole (*G. Mobbs*); Guisborough (*W. Jeffrey*); Hackfall (*J.G.*); Halifax (*D. Baxendale*); Hebden Bridge (*S. Gibson*); Hessle-on-Humber (*G. Burton*); Holderness, sometimes common (*N.F.D.* and *P.W.L.*); Huddersfield, occasionally (*G.T.P.*); Hull, sometimes common, as in 1865 (*A. Wright*); Ilkley (*Vincent Taylor*); Leeds (*E.B.*); Malton (*F.O.M.* and *W. Helstrip*); Marsden (*G.T.P.*); Pateley Bridge (*W. Storey*); Pontefract (*B.H.*); Rastrick (*W. Kaye*); Richmond (*G.P.H.* and *G.T.P.*); Rotherham (*W. Rodgers*); Scarborough, common (*J.H.R.*); Selby, sometimes common, as in 1878 (*T.F.*); Sheffield (*A.D.*); Tadcaster (*Walter Raine*); Thirsk (*G.T.*); Wakefield (*W.T.*); Wetherby (*W.D.R.*); Yeadon (*W.D.R.*); York (*C. D. Wolstenholme*).

Sphinx convolvuli *L.* About equally distributed, but apparently a rather commoner species than the last.

Barnsley (*J.H.*); Bedale (*W. Culverwell*); Bradford (*J.W.C.*); Brantingham, near Brough, in 1860 (*Ent. Ann.*, 1861, *p.* 93); Bridlington, frequently taken off the sails of shipping out at sea, also three in the town (*M.L.*); Doncaster (*J. Heppenstall* and *W. Clark*); Driffield (*F.O.M.*); Halifax, in 1881 (*J. Ogden*); Harrogate, in 1875 (*A. Denny*); Hessle-upon-Humber (*G. Burton*); Huddersfield, several (*G.T.P.*); Hull (*N.F.D.*); Leeds (*E.B.*); Leyburn (*J. Sang*); Masham (*J. Carter*, *Entom.*, 1868); Pontefract (*B.H.*); Redcar (*F. S. Rudd*, *Zool.*, 1846); Richmond (*G.P.H.*); Rothwell, in 1877 (*C.S.*); Scarborough (*T.W.*); Selby, abundant (*R.H.* and *T.F.*); Sheffield (*A.D.*); Spurn, sometimes very plentiful (*P.W.L.*);

Wakefield (*W.T.* and others); Yarm, 1860 (*Ent. Ann.*, 1861); York, in 1877 (*W.P.*).

Sphinx ligustri *L.* A rare species in Yorkshire, but is reported from Bridlington (*M.L.*); formerly near Castleford (*C.S.*); Hull (*J. Young, Ent. W. Int.*); Scarborough (*Stainton's Manual*); Selby (*R.H. and T.F.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York, two larvæ in 1877 (*J. Ripley*).

Deilephila euphorbiæ *L.* Stainton's Manual gives Scarborough as a locality for this species, but the record needs confirmation.

Deilephila galii *W.V.* A great rarity, but has occurred as follows:—

Bishop's Wood (*J.G.*); Bradford, two, one in 1878 (*J.W.C.*); Huddersfield, several (*John Armitage and P.I.*); Hull, in 1859 (*J. Young, Ent. W. Int.*, p. 5); Scarborough, three (*T.W.*); Sheffield (*A.D.*); Spurn, a larva in 1877 (*P.W.L.*); Wakefield (*W.T.*); York (*Stainton's Manual*).

Deilephila lineata *Fab.* As great a rarity as the last.

Barnsley (*Stainton's Manual*); Birstall, one by Mr. Isaac Binns, on July 23rd, 1867 or 1868 (*G.T.P.*); Hebden Bridge in 1865 (*S. Gibson, Ent. Ann.*, 1866, p. 151); Huddersfield, a very fine specimen on July 9th, 1859 (*E. Carter, Ent. W. Int.*, 1859, p. 42); Middleton, Sept. 26th, 1868, by Mr. Thorp (*Science Gossip*).

Chærocampa celerio *L.* Another great rarity.

Brantingham Thorp, George Norman (*Zool.* 1847); also at Brantingham in 1865 (*J. H. C. Kingston, Science Gossip*, 1865); Doncaster (*Stainton's Manual*); Huddersfield, several, one in a street in the town, in 1868 (*G.T.P.*); Middlesbrough (*W. Jagger, Ent. Mo. Mag., Jan.*, 1870); Wakefield, "one in 1849, one of my first captures" (*J.*

Sang); one on Sep. 27th, 1860 (*Ent. W. Int.*, ix. 3); also recorded by Mr. W. Talbot; a specimen taken at Handsworth, near Sheffield, by Mr. W. Frost, in October, 1865 (*Entom.*, 1866, p. 71); York, one by Mr. Dosser in a cottage at Heworth Moor, October 2nd, 1868 (*W.P.*, *Ent. Mo. Mag.*); also one on September 28th, 1862.

Chærocampa porcellus *L.* Perhaps not uncommon in the eastern division of the county, but apparently very rare elsewhere.

Huddersfield, one (*J.V.*); near Hull (*J. Young*, *Ent. W. Int.*, 1859, p. 5); Scarborough (*T.W.*); Spurn, abundant (*P.W.L.*); near York (*W.P.*, *Ent. W. Int.*, 1858, p. 123).

Chærocampa elpenor *L.* More distributed than the last.

Askham Bog, comes to sugar (*W.P.*); Beverley (*Davison*); Bishop's Wood (*C.S.*); Rossington (*W.W.*); Scarborough! (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*T. Wilson*).

Chærocampa nerii *L.* Of this, one of the very rarest of British lepidoptera, a poor specimen was caught in the bar-room of a public-house in Sheffield, September 14th, 1867 (*A.D.*). Probably this is the same specimen as the one recorded by Mr. W. Hydes (*Ent. Ann.*, 1868, p. 112).

Macroglossa stellatarum *L.* Distributed and not uncommon, but uncertain in appearance.

Barnsley (*J.H.*); Bradford (*J.W.C.*); Bramham (*J.Sm.*); Brantingham !! in 1865 (*J. H. C. Kingston*); Bridlington (*M.L.*); Flamborough Head (*E.H.*); Huddersfield (*G.T.P.*); Hull !! in 1865 (*G. Norman*); Hunslet! (*J.P.*); Leeds (*E.B.*); Pannal, in 1868 (*W.D.R.*); Pontefract (*B.H.*); Redcar (*J.P.*); Richmond (*G.P.H.*); Saltburn (*J.P.*); Scarborough !! (*G.T.P.*); Selby (*T.F.* and *R.H.*); Sheffield (*A.D.*); Spofforth, in 1865 (*T. Aked*); Wakefield (*W.T.*); Weeton (*J.P.*); York (*W.P.*).

In the hot summer of 1865 this species occurred in many parts of the country (*G.T.P.*).

Macroglossa fuciformis *L.* Selby (*R.H.* and *T.F.*).

Macroglossa bombyliformis *Esp.* Huddersfield, formerly (*J.V.*); Sheffield (*A.D.*); York (*W.P.*).

Sesia myopæformis *Bork.* Sheffield (*A.D.*).

Sesia culiciformis *L.* Doncaster (*J. Wragg*, *Ent. W. Int.*, June 9, 1860); Sheffield (*A.D.*); York, in 1880 (*W.P.*).

Sesia formicæformis *Esp.* Several among osiers at York, in 1860 (*J. T. Carrington*, *Ent. W. Int.*, 1860, p. 115).

Sesia ichneumoniformis *W.V.* Only on the east coast.

Flamborough Head (*E.H.*); Scarborough, "in Cornelian Bay" (*T.W.*).

Sesia cynipiformis *Och.* Bishop's Wood (*C.S.*); Doncaster, scarce (*W.W.*).

Sesia tipuliformis *L.* Common among currant bushes in gardens.

Barnsley (*J.H.*); Bradford (*J.W.C.*); Goole (*G. Mobbs*); Halifax (*G.T.P.*); Huddersfield !! (*G.T.P.*); Hunslet !! (*J.P.*); Leeds (*E.B.*); Pontefract (*B.H.*); Richmond (*G.P.H.*); Pickering (*J.H.R.*); Scarborough (*J.H.R.*); Sheffield (*A.D.*); Thirsk (*G.T.*); Wakefield (*W.T.*); York (*R.C.*).

Sesia sphegiformis *W.V.* "A specimen taken at York was in Mr. R. Cook's collection, but he said the locality (Langwith) was now destroyed." "Has occurred at York" (*Stainton's Manual*).

Sesia bembeciformis *Hüb.* Widely distributed and generally common.

Adel, near Leeds (*W.H.T.*); Bradford (*J.W.C.*); Bramley Fall Wood, Leeds (*C.S.*); Halifax (*G.T.P.*); Harrogate (*J. Sang*); Huddersfield !! in *poplars* (*G.T.P.*);

Pontefract (*B.H.*); Richmond (*G.P.H.*); Rotherham !! (*W. Thomas*); Scarborough (*J.H.R.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*T. Wilson*).

Sesia apiformis *L.* Not common.

Scarborough (*T.W.*). The Rev. F. O. Morris also gives Rawmarsh, near Rotherham, and Sheffield as localities.

Zeuzera æsculi *L.* This species, very common in the south, is seldom seen with us.

Barnsley (*J.H.*); Huddersfield, I have only seen one specimen, taken by Mr. J. Varley in 1876; very curiously Mr. S. L. Mosley two days before the capture found an empty pupa-case, evidently of this species, in the same neighbourhood (*G.T.P.*); Rawmarsh, near Rotherham (*F.O.M.*, *Neville Wood's Nat.*, June 1837); Selby (*T.F.* and *R.H.*); Sheffield (*A.D.*); Wakefield, one (*W.T.*); York, in 1880 (*W.P.*).

Cossus ligniperda *Fab.* Not generally common, but of more frequent occurrence than the last.

Askern (*S.D.B.*); Askham Bog, "a row of balsam poplars on the gutter side which separated the two rough fields between Chandler's Whin and the Bog, have all been destroyed by the larvæ of this species" (*W.P.*); Barnsley, in 1880 (*Nat.* vi. 44); Hull (*J.W.T.*); Leeds (*E.B.*); Market Weighton (*W.P.*); Pontefract (*B.H.*); Richmond (*G.P.H.*); Scarborough (*T.W.*); Selby (*K.R.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Hepialus hectus *L.* Abundant in all the wooded parts of the county.

Hepialus lupulinus *L.* Very abundant all over the county.

Hepialus sylvinus *L.* Generally distributed and plentiful.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Bradford (*J.W.C.*); Bramham, rare (*J.Sm.*); Harrogate (*J. Sang*);

Horsforth ! (*J.P.*) ; Huddersfield !! (*G.T.P.*) ; Hunslet ! (*J.P.*) ; Leeds (*E.B.*) ; Pateley Bridge (*W. Storey*) ; Pontefract (*B.H.*) ; Richmond (*G.P.H.*) ; Scarborough ! (*J.H.R.*) ; Sheffield (*A.D.*).

Hepialus velleda *Esp.* Very abundant in the West Riding ; and the variety **carnus** *Steph.*, or **Gallicus** *Led.*, often almost as common as the type.

Adel (*W.H.T.*) ; Barden-in-Wharfedale (*W.D.R.*) ; Barnsley (*J.H.*) ; Blubberhouses (*Lord Walsingham*) ; Bradford (*J.W.C.*) ; Huddersfield !! (*G.T.P.*) ; Ilkley (*A. Denny*) ; Leeds (*E.B.*) ; Pateley Bridge (*W. Storey*) ; Richmond (*G.P.H.*) ; Scarborough (*T.W.*) ; Sheffield (*A.D.*) ; Wakefield (*W.T.*) ; York (*W. C. Hewitson*).

Hepialus humuli *L.* Very abundant everywhere. A form taken by Mr. Thomas Eedle, whilst collecting for Lord Walsingham, at Blubberhouses, near Otley, in 1882, "approached the 'Shetland variety' in the decidedly pinkish tint of the hind wings" (*Lord Walsingham in litt.*, August 10th, 1882).

Procris statices *L.* Rare in the West Riding, common in the eastern division.

Barnsley, in 1882 (*W. E. Brady*) ; Doncaster (*W.W.*) ; Huddersfield, formerly (*J.V.*) ; Kilnsey Crag in Wharfedale (*C.S.*) ; Leeds, once (*W.H.T.*) ; Martin Beck, Bawtry (*J.H.*) ; Sheffield (*A.D.*) ; Snaith (*N.F.D.*) ; Wakefield (*W.T.*) ; near York (*W.P.*, *Ent. W. Int.*, 1858, p. 123).

Procris geryon *Hüb.* Beverley (*Ent. Ann.*, 1864, p. 122) ; Muker (*G. Brook, F.L.S.*, or *S.L.M.*) ; Richmond (*G.P.H.* and *J. Sang*) ; Sheffield (*A.D.*) ; Thorne, near Goole (*R. Creighton, Nat.*, vii. 55) ; York (*Ent. Ann.*, 1864, p. 122).

Zygæna trifolii *Esp.* Not common, and I think is often confounded with *Z. lonicæræ*.

Edlington, near Doncaster (*W.W.*); Sheffield; York (*R.C.* and *T.H.A.*, *Entom.*, *October*, 1842).

***Zygæna lonicerae* Esp.** In profusion on the east coast, but local inland.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Boston Spa (*Nat.*, *N. S.*, vi. 16); Filey !! (*G.T.P.*); Flamborough Head (*S.L.M.*); Huddersfield, formerly (*J.V.*); Pontefract (*B.H.*); Royston (*J.W.T.*); Scarborough !! (*T.W.*); Sheffield (*A.D.*); Thorparch (*E. Wilson*, *jun.*, in *Lou- don's Mag. Nat. Hist.*, *Oct.* 1834, *p.* 534); Wakefield (*W.T.*).

***Zygæna filipendulæ* L.** Askham Bog (*W.P.*); Barnsley (*J.H.*); Bramham (*J.Sm.*); Edlington Wood (*J.H.*); Filey (*J.W.T.*); Flamborough Head (*S.L.M.*); Goole (*G.T.P.*); Horsforth, now extinct (*C.S.*); Huddersfield (*J.V.*); Ledsham (*C.S.*); Leeds (*E.B.*); now extinct (*W.H.T.*); Pontefract (*B.H.*); Redcar (*J. Sang*); Richmond (*J. Sang*); Selby (*K.R.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

***Syntomis phegea* L.** The following note on this species occurs in the Entomologist's Monthly Magazine, Jan., 1873, ix. 199:—"Several years ago my late friend T. H. Allis sent me a specimen of this insect for examination, which he found in the possession of a collector in the north of England, who assured him he captured it in Yorkshire, but I do not recollect the exact locality. It had evidently been on the wing some time before it was captured, and it is not very probable that such a worn specimen would have been sent as a type from the continent.—HENRY DOUBLEDAY, Epping, Dec. 13th, 1872."

***Nola cucullatella* L.** Probably generally distributed.

Askham Bog (*W.P.*); Bramham ! (*J.Sm.*); Brough (*G.T.P.*); Edlington Wood (*G.T.P.*); Huddersfield

(*J.V.*); Leeds (*G.T.*); Sheffield (*A.D.*); Thirsk (*G.T.*); Wakefield (*W.T.*).

Nola confusalis *H.S.=cristulalis* *Hüb.* Not common.

Edlington, Doncaster (*J.H.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*T.H.A.*).

Nola strigula *W.V.* Only recorded from one locality.

Scarborough (*T.W.*).

Nudaria senex *Hüb.* Occurs at Askham Bog (*W.P.*); and Scarborough (*T.W.*).

Nudaria mundana *L.* Generally distributed and plentiful.

Askham Bog (*W.P.*); Askrigg (*W.D.R.*); Barden (*W.D.R.*); Barnsley (*J.H.*); Bingley !! (*E.P.P.B.*); Bradford! (*J.W.C.*); Bramham (*J.Sm.*); Halifax (*G.T.P.*); Huddersfield! (*G.T.P.*); Leeds (*W.H.T.*); Pannal! (*W.D.R.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough !! (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Calligenia miniata *Forst.* Doncaster! (*W.W.*); Edlington (*J.H.*); Pontefract (*B.H.*); Scarborough (*Stainton's Manual*); Sheffield (*A.D.*); York! (*Stainton's Manual*).

Lithosia mesomella *L.* Very local.

Thorne, near Goole (*J.H.*); York (*E.B.*, *R.C.*, and *W.P.*).

Lithosia aureola *Hüb.* York (*R.C.*, *Newman's Entom.*, Feb., 1842).

Lithosia helveola *Och.* Only at York. "The specimens are much larger than south of England examples, and the female is bright yellow: it is a well marked variety, possibly a distinct species" (*E.B.*; also recorded by *J.T.C.* and *W.P.*).

Lithosia complanula *Bdr.* = *lurideola* *F.R.* Askham Bog (*W.P.*); Leeds (*E.B.*); Pontefract (*B.H.*); Raskelf (*G.T.*); Richmond (*J. Sang*).

Lithosia complana *L.* Bramham (*J.Sm.*); Scarborough (*T.W.*); York (*T.H.A.*, *Entom.*, Oct., 1842, and *R.C.*).

Lithosia griseola *Hüb.* Scarborough, common in Raincliff Wood (*T.W.*).

Lithosia quadra *L.* A scarce species.

Askham Bog, one specimen in 1875 (*W.P.*); Barnsley, two specimens (*J.H.*); one at Redcar in 1875, by Mr. George Brook, F.L.S., of Huddersfield (*G.T.P.*); Scarborough, visits the flowers of hogweed (*Heracleum sphondylium*) on Oliver's Mount, in July (*T.W.*).

Lithosia rubricollis *L.* Guisborough (*F.O.M.*, *B. Moths*, 1871, i. 54); Scarborough ! (*T.W.*); Sheffield (*A.D.*); York ! (*Stainton's Manual* and *R.C.*).

Deiopeia pulchella *L.* Of this beautiful and rare species several specimens are recorded. One on Raincliff Moors, Scarborough, by Mr. Richard Beck, on September 11th, 1871 (*J.H.R.*); one at Scarborough, in June, 1870, by Mr. John H. Benson (*Entom.*, viii. 54); two seen on the wing, October 25th, 1877, in stubble fields on the east coast, by Mr. P. Inchbald, F.L.S. (*P.I.*, *Field*, Nov. 4th, 1876, p. 556); and a Yorkshire example is mentioned in *Stephens' Illustrations*.

Euchelia jacobæ *L.* Plentiful on the east coast, &c., but rarely seen in the West Riding.

Doncaster (*W.W.*); Huddersfield, formerly at Kirk-
lees (*S.L.M.* and *P.I.*); Redcar (*J. Sang*); Scarborough !
(*J.H.R.*); Sheffield (*A.D.*); Spurn !! (*W.E.C.*); Wake-
field (*W.T.*); York (*T. Wilson*, *Ent. Mo. Mag.*, xvii. 137).

Euthemonia russula *L.* Not common.

Martin Beck, Bawtry (*J.H.*); Riccall common, Selby

(*W. N. Cheesman*); Scarborough, not uncommon (*T. IV.*); York ! (*R. C. and Stainton's Manual*).

Chelonia plantaginis *L.* Common and generally distributed, on heaths, &c.

Bradford ! (*J. W. C.*); Bramham Park (*F. Oates, Ent. W. Int., July 3rd, 1858, iv. 108*); common on the Greetland and Norland Moors, Halifax (*G. T. P.*); Harrogate (*W. E. C.*); Richmond (*G. P. H.*); Sandbeck Park (*J. Heppenstall, Newman's Entom., Aug., 1842, i. 356*); Scarborough !! (*T. IV.*); Sheffield (*A. D.*); York ! (*Stainton's Manual*); Wakefield (*W. T.*).

Chelonia caja *L.* Abundant all over the county. Many of the best varieties at present in British collections were bred in the West Riding.

Arctia fuliginosa *L.* Commonly distributed over the county.

Barnsley (*J. H.*); Bradford ! (*J. W. C.*); Bramham ! (*J. Sm.*); Halifax ! (*G. T. P.*); Huddersfield !* (*G. T. P.*); Hunslet (*J. P.*); Ilkley (*J. W. T.*); Leeds, Adel Moor ! (*J. W. T.*); Otley Chevin (*J. W. T.*); Pontefract (*B. H.*); Richmond (*G. P. H.*); Ripon (*W. Lickley*); Scarborough (*T. IV.*); Selby (*T. F. and R. H.*); Sheffield (*A. D.*); Weeton ! (*J. P.*); Wakefield (*W. T.*); York (*W. C. Hewitson, in "Stephens' Illustrations"*).

Arctia mendica *L.* Fairly common.

Adel, Leeds (*J. G.*); Barnsley (*J. H.*); Bishop's Wood (*G. T. P.*); Bradford (*J. W. C.*); Bramham Park (*F. Oates, Ent. W. Int., June 11th, 1859, vi. 83*); Huddersfield, not uncommon (*G. T. P.*); Pontefract (*B. H.*); Richmond (*J. Sang*); Scarborough (*T. IV.*); Sheffield (*A. D.*); Wakefield (*W. T.*); York (*R. C.*).

I have seen some beautiful varieties; one, a female having the black spots confluent, from Bradford, was in my own possession.

Arctia lubricipeda L. Abundant in gardens and cultivated places everywhere.

The varieties **radiata** and **zatima** Cram., the latter having the dots replaced by transverse lines on the fore wings, are occasionally reared.

Arctia menthastri W.V. Quite as plentiful as the preceding, but more partial to lanes and field-sides.

The variety **Walkeri** Curt., in which "the spots are united to form longitudinal streaks," is bred not unfrequently.

Liparis chrysorrhea L. Hunslet! (*J.P.*); Scarborough (*H. Marsh*); Sheffield (*A.D.* and others); Wakefield (*Mr. Hawkins, Yorkshire Naturalists' Circular, Nov., 1872, p. 89*); Whitby!! (*W.E.C.*); York (*R.C., Entom., Feb., 1842*).

Liparis auriflua Fab. Abundant in the eastern division, and common in many parts of the western division. Apparently very rare in the Bradford, Halifax, and Huddersfield districts; indeed I have only taken it once at Huddersfield, and then from a hawthorn hedge in my own garden.

Liparis salicis L. Huddersfield, formerly (*P.I.*); Hunslet (*J.P.*); Leeds (*J.G.*); Nafferton (*F.O.M., Brit. Moths, 1871, i. 71*); Selby (*R.H., Nat., 1864*); Wakefield (*W.T.*); York (*R.C., Newman's Entom., Feb., 1842, i. 259*).

Liparis monacha L. Barnsley (*J.H.*); Doncaster (*F.O.M., Brit. Moths. 1871, i. 73*); near Riccall, Selby, and I think also at Bishop's Wood (*G.T.P.*); Sheffield, in old lists (*A.D.*).

Orgyia pudibunda L. Fairly distributed but not generally common.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*A. Denny*); Bramham! (*J.Sm.*); Huddersfield,

rare (*P.I.*); Pontefract (*B.H.*); Scarborough !! (*T.IV.*); Sheffield (*A.D.*); Wakefield (*IV.T.*).

***Orgyia fascelina* L.** Very local.

Bramham (*J.Sm.*); Richmond (*G.P.H.* and *J.Sang*); Spurn !! the larvæ feed there on bedstraw (*IV.E.C.* and *P.W.L.*); York (*IV.P.*, *Ent. IV. Int.*, 1860, p. 44, and *R.C.*, *Entom.*, Feb., 1842).

***Orgyia gonostigma* L.** Also a very local species.

Askham Bog (*IV.P.* and *G.T.P.*); Bishop's Wood and Selby (*J.W.T.* and others); Doncaster (*Stainton's Manual*); Rossington (*IV.IV.*); Sheffield (*A.D.*).

***Orgyia antiqua* L.** Is distributed all over the county, but much more commonly in the eastern than in the western division.

***Demas coryli* L.** Not generally common, although Mr. J. Smith used to find the larvæ freely on beech trunks at Bramham at the end of September. After a high wind he has taken about a score in a few minutes. Other localities are: Filey (*F.O.M.*, *Brit. Moths*, 1871, i. 77); Huddersfield (*P.I.*); Pontefract (*B.H.*); Scarborough (*T.IV.*); Sheffield (*A.D.*); Wakefield (*IV.T.*).

***Trichiura cratægi* L.** Not common.

Bramham, larvæ not uncommon at end of July (*J.Sm.*); Richmond, larvæ always on ling (*G.P.H.*); Sheffield (*A.D.*); Thirsk (*G.T.*); Wakefield (*IV.T.*); York (*T. Wilson*).

***Pæcilocampa populi* L.** Not often common, but well distributed.

Askham Bog (*IV.P.*); Bishop's Wood (*J.G.*); Bramham, on birch trunks in November (*J.Sm.*); Edlington Wood (*T. Wilson*); Harrogate (*J.Sang*); Huddersfield (*J.V.*); Leeds (*E.B.* and *IV.E.C.*); Pontefract (*B.H.*);

Richmond (*J. Sang*); Ripon (*J. Waite*); Scarborough ! (*T. W.*); Sheffield (*A. D.*); Thirsk (*J. G.*); Wakefield (*W. T.*).

Eriogaster lanestris *L.* Askern (*S. L. M.*); Bramham (*J. Sm.*); Easingwold (*G. T.*); Huddersfield, very rare (*P. I.*); Ilkley (*E. B.*, *Zool.*, 1866); Pontefract (*B. H.*); Richmond (*G. P. H.*); Scarborough (*T. W.*); Sheffield, in old lists (*A. D.*); Thirsk !! (*J. G.*); Wakefield (*W. T.*); Wilstrop (*W. E. C.*); York (*T. Wilson*).

Bombyx neustria *L.* A very scarce species, although so abundant in more southern counties.

Pontefract (*B. H.*); Sheffield (*A. D.*); York, rare (*R. C.*).

Bombyx rubi *L.* Well distributed and usually common in suitable localities.

Askham Bog (*W. P.*); Barnsley (*J. H.*); Beamsley Moors (*W. H. T.*); Bradford !! (*J. W. C.*); Cottingham, near Hull (*H. Wilkinson*); Huddersfield, formerly, but now apparently extinct (*J. V.*); Keighley !! (*J. T. Calvert*); Leeds (*E. B.*); Pontefract (*B. H.*); Richmond (*J. Sang*); Scarborough ! (*J. H. R.*); Selby (*T. F.* and *R. H.*); Sheffield (*A. D.*); Thorne Waste (*W. P.*); Wakefield (*W. T.*); Weeton ! (*J. P.*).

Bombyx quercus *L.* Plentiful on heaths, moorlands, and other suitable places all over the county. The specimens found in the West Riding, and probably inland specimens generally, are the form known as **callunæ** *Palmer*, but I believe the purely coast specimens are the true **quercus**. A single larva I picked up on Crosland Moor, Huddersfield, produced on July 1st, 1873, a beautiful variety of the male, in which the usual yellow band was replaced by rich olive. It was, I believe, the first record of this form having occurred in Britain, but two or three

others have since been bred. Mr. J. Varley used to breed a form having transparent wings from larvæ found in the Huddersfield district.

Odonestis potatoria *L.* Generally distributed throughout the county, and in many places very abundant.

Lasiocampa quercifolia *L.* I can only find records of three specimens: one believed by Mr. Prest to have been taken at Askham Bog; one near Sheffield (*Rev. F. W. Hope*, "*Stephens' Illustrations*"); and one at Wakefield (*Mr. Marson, Nat., N. S.*, iii. 7^c).

Lasiocampa ilicifolia *L.* The moors near Sheffield and Ripon were formerly well-known localities for this scarce species, but it has not been taken there (nor anywhere else) now for some years. Lord Walsingham informs me that his collector, Mr. Thomas Eedle, *believes* he saw it on his moors at Blubberhouses in 1882, but failed to secure it. His lordship says he has long thought the locality a most likely one for the species, so perhaps it may yet turn up there. Mr. A. Doncaster records the species from Sheffield, and Messrs. W. Prest, Lickley, and Meldrum from Ripon (*Entom.*, xi. 104, *Ent. W. Int.*, viii. 51, and *Ent. W. Int.*, June 8, 1861, v. 75).

Saturnia carpini *Bork.* Abundant on all the heaths throughout the county.

Bradford!! (*J. W. C.*); Halifax!! (*G. T. P.*); Horton-in-Ribblesdale (*W. E. C.*); Huddersfield!! (*G. T. P.*); Ilkley (*A. Denny*); Leeds (*E. B.*); Otley Chevin (*J. W. T.*); Pateley Bridge!! (*W. D. R.*); Penistone (*J. H.*); Richmond (*G. P. H.* and *J. Sang*); Ripon (*T. Meldrum*); Scarborough!! (*J. H. R.*); Selby (*T. F.* and *R. H.*); Sheffield (*A. D.*); Strensall Common! (*W. E. C.*); Thorne (*H. F. Parsons*); Wakefield (*W. T.*); Whitby!! (*W. E. C.*).

GEOMETRÆ.

Ourapteryx sambucata *L.* Common and generally distributed.

Epione vespertaria *L.* Sandburn, about six miles from York, is now the only British habitat for this pretty species, but it occurs there in great abundance, the larvæ feeding on the dwarf willow. A very beautiful variety, figured in the Entomologist, 1878, p. 169, sometimes occurs, and in 1878 Mr. Prest took a hermaphrodite specimen.

Mr. McEnnes, in the Naturalist, April, 1882, p. 149, records it as having occurred at Hunstey, near Beverley, twenty-four years ago.

Epione apiciaria *W.W.* Distributed but not very common.

Askham Bog, not uncommon (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*C.S.*); Boroughbridge (*G.T.P.*); Bramham (*J.Sm.*); Hunslet near Leeds, one (*J.P.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); Wortley near Leeds (*T. Benn*).

Epione advenaria *Hüb.* Very local.

Edlington Wood, near Doncaster, not uncommon (*G.T.P.*); Maltby Wood, near Rotherham (*W. B. Pryer*, *Ent. W. Int.*, June 8th, 1861).

Rumia cratægata *L.* Very abundant everywhere

Venilia maculata *L.* Not common.

Bradford, in 1880 (*J. W.C.*); Malham Cove (*J. W.T.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Sheffield (*A.D.*); Weldon Wood, near Castleford (*C.S.*); York (*Stainton's Manual*).

Angerona prunaria *L.* Bishop's Wood (*C.S.*); Edlington Wood (*F.O.M.*, *British Moths*, 1871, i. 99); Sheffield (*A.D.*); York ! (*Stainton's Manual*).

Metrocampa margaritata *L.* Generally distributed and common.

Ellopia fasciaria *L.* In fir woods, but not generally common.

Bramham (*J.Sm.*); Harrogate (*J. Sang*); Huddersfield, rare (*J.V.*); Hunslet (*J.P.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough ! (*T.IV.*); Sheffield (*A.D.*); York ! (*W.P.*).

Eurymene dolabraria *L.* Bishop's Wood (*G.T.P.*); Edlington, Doncaster (*J.H.*); Richmond (*J. Sang*); Scarborough (*T.IV.*); York (*W.P.* and *T. Wilson*).

Pericallia syringaria *L.* Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*C.S.*); Bradford, frequent (*J.W.C.*); Edlington Wood (*J.H.*); Huddersfield (*P.I.*); Leyburn (*J. Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*W.P.*).

Selenia illunaria *Hüb.* Common and generally distributed.

Selenia lunaria *W.V.* Seldom common, but not unfrequently taken.

Barnsley (*W.E. Brady*); Bradford (*J.W.C.*); Bramham, rare (*J.Sm.*); Huddersfield (*J.V.*); Leeds (*E.B.*); Muker in Swaledale (*S.L.M.*); Richmond (*J. Sang*); Scarborough ! (*T.IV.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*R.C.*).

Odontopera bidentata *L.* Generally distributed and abundant, no doubt everywhere.

Crocallis elinguaris *L.* Plentiful in all the wooded parts of the county.

Ennomos alniaria *Haw.* = *tiliaria* *Hüb.* Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*J.G.*); Bradford (*H. T. Soppitt*); Bramham (*J.Sm.*); Doncaster (*W.W.*); Leeds (*J.G.*); Richmond (*G.P.H.*); Ripon (*J. Waite*); Scarborough ! (*J.H.R.*); Selby (*T.F.* and *R.H.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Ennomos fuscantaria *Haw.* Generally scarce, but probably common where it occurs.

Askham Bog, larvæ on ash trees near the bog (*W.P.*);
Doncaster (*G.T.P.*); Sheffield (*A.D.*).

Ennomos erosaria *W.V.* Bishop's Wood (*W.P.*); Edlington Wood (*G.T.P.*); Huddersfield (*J.V.*); Scarborough (*T.W.*); York (*T. Wilson*).

Ennomos angularia *W.V.* Barnsley (*J.H.*); Bishop's Wood (*J.G.*); Bradford, in 1880 (*J.W.C.*); Edlington Wood (*G.T.P.*); Pontefract (*B.H.*); Scarborough (*Stainton's Manual*); Wakefield (*W.T.*); York (*C.S.*).

Himera pennaria *L.* Generally common.

Askham Bog (*W.P.*); Bishop's Wood (*G.T.P.*); Bradford (*J.W.C.*); Bramham (*J.Sm.*); Doncaster (*J.H.*); Huddersfield (*G.T.P.*); Meanwood !! (*W.H.T.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Ripon (*J. Waite*); Scarborough! (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Phigalia pilosaria *W.V.* Common in woods, &c., everywhere.

Along with the ordinary type an olive variety is found at Bradford, not uncommon (*J.W.C.*); at Bramham, not uncommon (*J.Sm.*); and at Harrogate (*H. Sims*); whilst Mr. J. W. Carter also takes a still darker form, nearly black, at Bradford; and Mr. C. Smethurst records a dark brown unicolorous form as having been taken not uncommonly at Leeds in 1880.

Nyssia hispidaria *W.V.* On the boles of oaks, &c., early in March.

Bishop's Wood (*G.T.P.*); Bramham (*J.Sm.*); Doncaster (*W.W.*); Huddersfield, was common in Storthes Hall Woods many years ago, and has been taken rarely in other woods since (*G.T.P.*); Scarborough (*Stainton's Manual*); Sheffield (*A.D.* and *J. Batty*); Wakefield (*W.T.*); near York (*P.I.*).

Biston hirtaria *L.* Very rare.

Scarborough (*T.W.*); one at Knavesmire, York (*C.S.*);
York (*R.C.*, *Newman's Entom.*, *Apr.*, 1842).

Amphydasis prodromaria *W.V.* Never common, but frequently taken in woods.

On the Yorkshire side of Barnard Castle (*J. Sang*);
Barnsley (*J.H.*); Bishop's Wood (*C.S.*); Bramham (*J.Sm.*);
Doncaster (*W.W.*); Edlington Wood (*S.D.B.*); Helms-
ley (*G.T.*); Pontefract (*B.H.*); Richmond (*G.P.H.*);
Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*);
York (*T. Wilson*).

Amphydasis betularia *L.* Commonly distributed throughout the county.

At Bradford (*J.W.C.*); Huddersfield (*G.T.P.*);
Leeds (*W.H.T.*); and other parts of the West Riding,
the black variety, **Doubledayaria** *Mill.*, is almost as
common as the ordinary pale type. This form is also
taken at Richmond (*G.P.H.*), and elsewhere in the other
Ridings.

Hemerophila abruptaria *Thun.* Not a common species.

Bramham, rare (*J.Sm.*); Pontefract (*B.H.*); Sandal
Beat, Doncaster (*F.O.M.*); Scarborough (*T.W.*); Wake-
field (*W.T.*); York ! (*T.H.A.* and *G.T.*).

Cleora lichenaria *W.V.* Rather scarce.

Askham Bog (*W.P.*); Flamborough Head (*E.H.*);
Richmond (*G.P.H.*); Scarborough (*T.W.*).

Boarmia repandata *L.* Plentiful in woods and lanes everywhere.**Boarmia rhomboidaria** *W.V.* Abundant everywhere, but more partial to gardens than woods. The West Riding form, and perhaps that of the county generally, is the variety **perfumaria** *Newman*.

Boarmia roboraria *W.V.* This fine species is some seasons not uncommon at Bishop's Wood, near Selby (*T.F.* and *C.S.*). It has not been recorded from elsewhere in the county.

Tephrosia consonaria *Hüb.* Mr. John Jones, of Hull, informs me that he took a female specimen at Beverley, on May 29th, 1882, but being worn he threw it away. I am inclined to think the specimen was wrongly named (see *Naturalist, N. S., July, 1882*).

Tephrosia crepuscularia *W.V.* Is recorded from four localities, but I believe is often confounded with *T. biundularia*.

Bishop's Wood (*C.S.*); Pontefract (*B.H.*); Scarborough (*T.IV.*); Sheffield (*A.D.*).

Tephrosia biundularia *Esp.* Of general occurrence.

Barnsley (*J.H.*); Bishop's Wood ! (*G.T.P.*); Bramham, on fir trunks (*J.Sm.*); Blubberhouses (*Lord Walsingham*); Doncaster (*J.H.*); Huddersfield, rare (*J.V.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*T.IV.*); Sheffield (*A.D.*); Wakefield (*W.T.*); Wentbridge, a very dark variety (*G.T.*); York (*W.P.*).

Tephrosia punctulata *W.V.* Local.

Bishop's Wood (*C.S.*); Pontefract (*B.H.*); Scarborough (*Stainton's Manual*); Sheffield, in old list, not seen of late years (*A.D.*); York ! (*W.P.*).

The larva feeds on birch.

Gnophos obscurata *W.V.* Plentiful on the east coast, but does not occur elsewhere.

Filey (*G.T.P.*); Flamborough Head !! (*E.H.*); Scarborough (*G.T.P.*).

Pseudopterpnæ cytisaria *W.V.* Pontefract (*B.H.*); Richmond (*G.P.H.*); Scarborough (*T.IV.*); York, not uncommon (*W.P.*).

Geometra papilionaria *L.* Widely distributed and not uncommon.

Askham Bog and Sandburn, York, amongst alders and birches (*W.P.*); Barnsley (*J.H.*); Bingley (*E.P.P.B.*); Bishop's Wood (*C.S.*); Bradford, sometimes common (*J.W.C.*); Doncaster ! (*W.W.*); Huddersfield (*G.T.P.*); Pontefract (*B.H.*); Raskelf near Easingwold (*G.T.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Iodis lactearia *L.* Widely distributed and generally common.

Phorodesma bajularia *W.V.* This pretty and local species is recorded from Bishop's Wood (*C.S.*); Edlington Wood, Doncaster (*G.T.P.*); Sheffield (*A.D.*); York (*W.P.*).

Hemithea thymiaria *L.* Also reported from but few localities.

Brough (*C.S.*); Pontefract (*B.H.*); Raskelf near Easingwold !! (*G.T.*); Thorne near Goole (*W.P.*); York ! (*R.C.*).

Ephyra porata *L.* Recorded from near York by Mr. W. Helstrip (*Ent. W. Int., Nov. 12, 1859, p. 53*).

Ephyra punctaria *L.* Distributed but not very common.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*J.W.T.*); Bramham (*J.Sm.*); Doncaster (*W.W.*); Pontefract (*B.H.*); Sheffield (*A.D.*); Woodlesford (*J.P.*).

Ephyra trilinearia *Bork.* Not common.

Edlington, Doncaster (*J.H.* and *W.W.*); Micklefield (*C.S.*); Pontefract (*B.H.*); Scarborough (*Stainton's Manual*); Wakefield (*W.T.*).

Ephyra omicronaria *W.V.* Not uncommon in woods where the maple grows freely.

Edlington Wood ! (*J.H.* and *W.W.*); Leeds, at Burley (*C.S.*); Sheffield (*A.D.*); York (*Stainton's Manual*).

Ephyra pendularia *L.* Very local.

Askham Bog (*W.P.*); Pontefract (*B.H.*).

Hyria auroraria *Gn.* This beautiful little species occurs freely on Thorne Waste, near Goole, but has not been noticed elsewhere in the county (*G.T.P.*). The red form is the type at Thorne, whereas in the Cambridgeshire fens the yellow form is the prevalent one (*W.W.*).

Asthena luteata *W.V.* Distributed and fairly common.

Adel near Leeds (*C.S.*); Bishop's Wood (*G.T.P.*); Bradford (*J.W.C.*); Bramham (*J.Sm.*); Doncaster (*J.H.* and *W.W.*); Huddersfield (*J.V.*); Pontefract (*B.H.*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York! (*Stainton's Manual*).

Asthena candidata *W.V.* Bradford! (*J.W.C.*); Bramham! (*J.Sm.*); Doncaster (*J.H.* and *W.W.*); Huddersfield, rare (*J.V.*); Meanwood near Leeds (*A.Denny*); Pontefract (*B.H.*); Richmond (*J.Sang*); Scarborough (*Stainton's Manual*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*R.C.*).

Asthena sylvata *W.V.* Very local but often abundant where it occurs.

Barnsley, at New Park Spring Wood (*J.H.*); Edlington Wood, Doncaster, where in some seasons it perfectly swarms, and as many as twenty may be counted sitting on the trunk of a single tree in June (*J.H.*, *W.P.*, and *G.T.P.*); Huddersfield, very rare (*P.I.*); Richmond!! (*G.P.H.* and *J.Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*Stainton's Manual*).

Asthena Blomeraria *Dbl.* Scarce and very local. Feeds on wych elm.

Helmsley (*G.P. Dutton, Naturalist*, 1875); Nunburnholme (*F.O.M., Morris' Nat.*, viii. 188, June 26, 1858); Pickering (*F.O.M., British Moths*, 1871, i. 152); Scarborough (*G.T.P.* and *T.W.*).

Eupisteria heparata *W.V.* Not uncommon among alder in damp places.

Adel near Leeds (*G.T.*); Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*G.T.P.*); Blubberhouses (*Lord Walsingham*); Bradford! (*J.W.C.*); Bramham!! (*J.Sm.*); Huddersfield (*P.I.*); Pontefract (*B.H.*); Scarborough (*T.W.*); Sheffield (*A.D.*); Thorne! (*W.W.*); Wakefield (*W.T.*).

Venusia cambricaria *Gn.* Local but widely distributed, and usually plentiful where it occurs.

Barnsley!! (*J.H.*); Bingley!! (*E.P.P.B.*); Bradford!! (*J.W.C.*); Hebden Bridge!! (*G.T.P.*); Richmond! (*G.P.H.*); Scarborough! (*T.W.*); Sheffield (*A.D.*); Sowerby Bridge (*C.S.*); Wharnccliffe (*J.H.*).

Mr. W. H. Tugwell, of Greenwich, possesses several specimens of a very distinct and dark variety which he informs me were sent to him from Rotherham.

Acidalia rubricata *W.V.* The only claim this species has to appear in our county list is based upon the following records:—"A specimen was taken at Stockton-in-the-Forest by Mr. Baines, and I had another specimen taken by Mr. Baines" (*T. H. Allis, Ent. W. Int.*, 1859); "a specimen was taken by Mr. Birks near York, July 15th, 1859" (*Ent. W. Int.*, vi. 130, and *Ent. Ann.*, 1860, p. 141).

Acidalia scutulata *W.V.* Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*C.S.*); Bradford (*J. A. Butterfield*); Bramham! (*J.Sm.*); Flamborough Head! (*E.H.*); Huddersfield, I have not seen it for some years (*G.T.P.*); Redcar (*J. Sang*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Acidalia bisetata *Bork.* Widely distributed and generally common.

Askham Bog (*W.P.*); Barnsley (*W. E. Brady*); Boroughbridge (*W.P.*); Bradford! (*J.W.C.*); Bramham!

(*J.Sm.*); Edlington Wood ! (*G.T.P.*); Huddersfield (*G.T.P.*); Leeds ! (*W.H.T.*); Pontefract (*B.H.*); Raskelf (*G.T.*); Redcar (*J. Sang*); Richmond (*J. Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*).

***Acidalia interjectaria* W.V.** Recorded from Huddersfield, but I have never seen it there (*G.T.P.*).

***Acidalia incanaria* Hüb.** Barnsley (*J.H.*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*); Huddersfield (*P.I.*); Leeds ! (*E.B.*); Otley (*J.W.T.*); Pannal (*W.D.R.*); Redcar (*J. Sang*); Richmond (*G.P.H.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*T. Wilson*).

***Acidalia straminata* Tr.** This interesting species was taken not uncommonly, and in fine condition, on the Thorne side of Thorne Waste by various members on the occasion of the Yorkshire Naturalists' Union's visit there on July 9th, 1881 (*G.T.P.* and *W.P.*).

***Acidalia immutata* L.** Not common.

Askham Bog (*W.P.*); Bramham ! (*J.Sm.*); Harrogate (*J. Sang*); Leeds (*J.W.T.*); Scarborough (*Stainton's Manual*); Sheffield, in old list (*A.D.*); York (*T. Wilson*).

***Acidalia remutata* Hüb.** Common.

Askham Bog (*W.P.*); Bishop's Wood (*C.S.*); Bradford ! (*J.W.C.*); Bramham ! (*J.Sm.*); Doncaster (*J.H.*); Huddersfield ! (*G.T.P.*); Meanwood, Leeds (*W.H.T.*); Pontefract (*B.H.*); Scarborough ! (*Stainton's Manual*); Sheffield (*A.D.*); Wakefield (*W.T.*).

***Acidalia fumata* Steph.** Rather common.

Bingley (*E.P.B.*); Blubberhouses (*Lord Walsingham*); Bradford (*J.W.C.*); Huddersfield, in woods having an undergrowth of ling and bilberry (*G.T.P.*); Richmond (*J. Sang*); Scarborough (*G.T.P.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*W.P.*).

***Acidalia imitaria* Hüb.** Not generally common.

Askham Bog (*W.P.*); Bramham (*J.Sm.*); Pontefract (*B.H.*); Raskelf, common on ragwort flowers (*G.T.*); Redcar (*J. Sang*); Scarborough (*Stainton's Manual*); Sheffield (*A.D.*).

Acidalia aversata *L.* Abundant everywhere.

The banded form, variety *lividata* *Gn.*, is common at Huddersfield, and no doubt equally so elsewhere.

Acidalia inornata *Haw.* Askham Bog (*W.P.*); Bingley (*E.P.P.B.*); Huddersfield, abundant in woods that have an undergrowth of ling, on which the larva feeds, but not found on the open moors (*G.T.P.*); Meanwood, Leeds (*W.H.T.*); Sheffield (*A.D.*); York (*E.B.*).

Acidalia emarginata *L.* Not a common species.

Hornsea (*N.F.D., Nat., N.S., vi. 195*); Pontefract (*B.H.*); York (*W.P.* and *G.T.*).

Timandra amataria *L.* Scarce in the West Riding, but fairly common elsewhere.

Askham Bog (*W.P.*); Bishop's Wood (*G.T.*); Doncaster (*G.T.P.*); Fairburn (*C.S.*); Goole (*J. Harrison*); Ledsham ! (*C.S.*); Mickfield (*C.S.*); Sheffield (*A.D.*).

Cabera pusaria *L.* Abundant everywhere.

Cabera rotundaria *Haw.* Only recorded from two localities, but is probably often passed over as *C. pusaria*, of which species it is by many considered only a variety.

Richmond (*G.P.H.*); Scarborough (*T. IV.*).

Cabera exanthemaria *Scop.* Generally distributed and rather common among swallow.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*G.T.*); Blubberhouses (*Lord Walsingham*); Bramham ! (*J.Sm.*); Goole Moors (*J. Harrison*); Harrogate (*J. Sang*); Huddersfield (*G.T.P.*); Leeds (*C.S.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Saltaire (*J. Terry*); Wakefield (*W.T.*).

Corycia tenerata *W.V.* Not common.

Bishop's Wood (*C.S.*); Edlington, Doncaster (*J.H.*);
Sheffield (*A.D.*); York (*Stainton's Manual*).

Corycia taminata *W.V.* Recorded from Wakefield (*W.T.*);
and York (*Stainton's Manual*); but I have never seen it
in the county.

Macaria liturata *L.* Not uncommon in fir woods.

Bingley (*J. A. Butterfield*); Blubberhouses (*Lord
Walsingham*); Bradford (*J. IV.C.*); Bramham ! (*J. Sm.*);
Doncaster (*W. IV.*); Harrogate (*J. Sang*); Huddersfield,
rare (*G. T.P.*); Pontefract (*B.H.*); Richmond (*J. Sang*);
Scarborough (*T. IV.*); Sheffield (*A.D.*); Thorne (*W.P.*);
Wakefield (*W.T.*); York (*W.P.*).

Halia wavarica *L.* Abundant in all gardens containing cur-
rant bushes.

Strenia clathrata *L.* The east coast specimens are large,
and have the ground colour generally much whiter than
it is in southern examples.

Bramham ! (*J. Sm.*); Flamborough Head ! (*E.H.*);
Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough !!
(*G. T.P.*); Wakefield (*W.T.*); Weldon Wood near Ponte-
fract (*C.S.*); York ! (*R.C.*).

Panagra petrarica *Hüb.* Adel, Leeds ! (*J. W.T.*); Barnsley
(*J.H.*); Bradford ! (*J. IV.C.*); Bramham ! (*J. Sm.*); Don-
caster (*W. IV.*); Harrogate (*J. Sang*); Mirfield, abundant
among bracken in the Hagg Wood (*G. T.P.*); Pontefract
(*B.H.*); Richmond (*G.P.H.*); Scarborough (*J.H.R.*);
Sheffield (*A.D.*); Wakefield ! (*C. W. Richardson*); York !
(*Stainton's Manual*).

Numeria pulveraria *L.* Of wide distribution but seldom
common anywhere.

Bishop's Wood (*C.S.*); Bradford (*J. IV.C.*); Bramham
(*J. Sm.*); Edlington, Doncaster (*J.H.* and *W. IV.*); Hud-

dersfield (*J.V.*); Pontefract (*B.H.*); Richmond (*J.Sang*); Scarborough (*J.H.R.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York ! (*Stainton's Manual*).

Scodiona belgiaria *Hüb.* Generally common on heaths. In the Thorne Moor specimens the males are darker and have a more irony appearance than south West Riding examples.

Adel, Leeds! (*C.S.* and *J.W.T.*); Bingley! (*E.P.P.B.*); Bradford (*J.W.C.*); Halifax !! (*G.T.P.*); Huddersfield ! (*G.T.P.*); Ilkley (*A. Denny*); Scarborough ! (*T.W.*); Sheffield (*A.D.*); Thorne Waste near Goole ! (*G.T.P.*).

Fidonia carbonaria *L.* The following note appears in the *Entomologists' Weekly Intelligencer* of May 10th, 1856, i. 44 :—"April 24th, ascended Engleborough, on the Lancashire side, behind Ingleton; when about half way up took the first *Eupisteria carbonaria* I ever saw alive! C. S. GREGSON, Edge Lane, Old Swan, Liverpool, May 3rd, 1856." The record needs confirmation.

Fidonia atomaria *L.* Apparently abundant on heaths throughout the county. In the West Riding (and probably elsewhere) the males are much smaller and *darker*, but the females *paler*, than southern specimens.

Fidonia piniaria *Hüb.* Widely distributed and generally abundant in fir woods. In the males the ground colour is pure white, whereas in southern specimens it is yellow.

Adel (*W.H.T.*); Barden ! (*E.P.P.B.*); Barnsley (*J.H.*); Bingley ! (*E.P.P.B.*); Blubberhouses (*Lord Walsingham*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*); Doncaster (*W.W.*); Halifax !! (*G.T.P.*); Harrogate (*W.E.C.*); Horsforth, Leeds (*C.S.*); Huddersfield (*G.T.P.*); Pontefract (*B.H.*); Richmond (*G.P.H.* and *J. Sang*); Scarborough (*J.H.R.*); Sheffield (*A.D.*); Wakefield (*W.T.*); Weldon Wood (*C.S.*); York !! (*E.B.*).

Lythria purpuraria *L.* The following notice on this species is published in the *Entomologists' Monthly Magazine* for March 1870, vi. 238 :—" I have two specimens of this rare insect taken in Stockton Forest, four miles from here, by Henry Baines. These are set with short household pins, were taken at the same place, and by the same captor as my old *Acidalia rubricata*, which species has since been taken in the same locality. T. H. ALLIS, Osbaldwick, near York, February, 1870."

Aspilates strigillaria *Hüb.* Not so common as one would expect to find it.

Huddersfield, very rare (*P.I.*) ; Ilkley Moors (*C.S.*) ; Scarborough (*J.H.R.*) ; Strensall near York (*E.B.* and *A. Denny*).

Abraxas grossulariata *L.* Abundant everywhere.

The variety **Varleyata** *Porritt*, having a very deep black border, has been bred in some numbers at Bradford, Huddersfield, and elsewhere ; and Mr. Prest says it also occurs at York. In 1878 Mr. J. Firth bred two nearly white specimens from larvæ collected near Bradford.

Abraxas ulmata *Fab.* Distributed throughout the county and generally abundant.

A peculiar lead-coloured form sometimes occurs, and many other beautiful varieties have been taken. Edlington Wood is noted for aberrations in this species.

Barnsley (*J.H.*) ; Bishop's Wood ! (*G.T.P.*) ; Bolton Woods (*W.E.C.*) ; Bradford !! (*J.W.C.*) ; Bramham ! (*J.Sm.*) ; Edlington Wood !! (*G.T.P.*) ; Flamborough Head (*E.H.*) ; Grassington (*W.D.R.*) ; Harewood (*C.S.*) ; Huddersfield (*G.T.P.*) ; Leeds (*E.B.*) ; Otley Chevin !! (*W.D.R.*) ; Pontefract (*B.H.*) ; Richmond (*J. Sang*) ; Scarborough ! (*Stainton's Manual*) ; Sheffield (*A.D.*) ; Wakefield (*W.T.*) ; Wentbridge (*J.W.T.*) ; York (*T. Wilson*).

Ligdia adustata *W.V.* Not uncommon among spindle.

Bishop's Wood (*A. Denny*); Bramham ! (*J.Sm.*);
Doncaster (*W.W.*); Edlington Wood (*J.H.*); Pontefract
(*B.H.*); Raskelf (*G.T.*); Scarborough (*T.W.*); Sheffield
(*A.D.*); Wakefield (*W.T.*); York (*Stainton's Manual*).

Lomaspilis marginata *L.* Common. Pretty varieties sometimes occur.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's
Wood (*J.W.T.*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*);
Edlington Wood ! (*G.T.P.*); Goole Moors (*J. Harrison*);
Huddersfield (*G.T.P.*); Pontefract (*B.H.*); Raskelf
(*G.T.*); Richmond (*J. Sang*); Scarborough !! (*J.H.R.*);
Sheffield (*A.D.*); Wakefield (*W.T.*).

Hybernia rupicaprararia *W.V.* Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*C.S.*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*); Huddersfield (*P.I.*); Leeds ! (*E.B.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Hybernia leucophæaria *W.V.* Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*C.S.*); Bradford !! (*J.W.C.*); Bramham ! (*J.Sm.*); Doncaster, "especially dark forms" (*W.W.*); Huddersfield (*P.I.*); Leeds (*E.B.*); Meanwood (*W.H.T.*); Pontefract (*B.H.*); Richmond (*G.P.H.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

The variety **marmorinaria** *Esp.*, is plentiful in some localities.

Hybernia aurantiaria *Hüb.* Generally common.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's
Wood (*J.W.T.*); Bradford !! (*J.W.C.*); Bramham !
(*J.Sm.*); Harewood (*Henry Lupton*); Huddersfield
(*G.T.P.*); Meanwood ! (*W.H.T.*); Pontefract (*B.H.*);
Richmond (*J. Sang*); Ripon (*J. Waite*); Scarborough
(*Stainton's Manual*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Hybernia progemma *Hüb.* Abundant everywhere.

The dark, almost black, form of both male and female, variety **fuscata** *Mosley*, is common at Huddersfield (*G.T.P.*); and at Wakefield (*C. W. Richardson*); also probably throughout the south West Riding.

Hybernia defoliaria *L.* Distributed throughout the county and usually abundant.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*G.T.*); Bradford !! (*J.W.C.*); Bramham ! (*J.Sm.*); Brough (*W.D.R.*); Huddersfield (*G.T.P.*); Leeds ! (*E.B.*); Pateley Bridge (*G.T.P.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Ripon (*J. Waite*); Scarborough (*T.W.*); Sheffield (*A.D.*); Thirsk (*G.T.*); Wakefield (*W.T.*).

Also very variable; a nearly black unicolorous form occurs occasionally at Shipley Glen, Bradford (*J.W.C.*).

Anisopteryx æscularia *W.V.* Common.

Adel (*G.T.*); Arthington !! (*H. Marsh*); Askham Bog (*W.P.*); Barnsley (*J.H.*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*); Huddersfield (*G.T.P.*); Leeds ! (*A. Denny*); Masham (*C.S.*); Pontefract (*B.H.*); Raskelf (*G.T.*); Richmond (*J. Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*); Weldon Wood (*C.S.*).

Cheimatobia brumata *L.* Abundant everywhere.

Cheimatobia boreata *Hüb.* Probably common wherever there is any extent of birch.

Barnsley (*J.H.*); Bradford !! (*J.W.C.*); Bramham ! (*J.Sm.*); Doncaster ! (*W.W.*); Huddersfield ! (*G.T.P.*); Meanwood, Leeds (*W.H.T.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York !! (*W.P.*).

Oporabia dilutata *W.V.* Abundant everywhere.

The dark-brown variety, **obscurata** *Staud.*, is as common or more so in the south West Riding as the type.

The variety *autumnaria* *Gn.* occurs at Huddersfield (*G.T.P.*); at Richmond (*G.P.H.*); and doubtless elsewhere. This latter variety is by some considered a distinct species, and my own experience is that it is a considerably earlier insect in appearance on the wing.

Oporabia filigrammaria *H.S.* Adel, Leeds (*C.S.*); Bramham (*J.Sm.*); Halifax (*G.T.P.*); Huddersfield (*P.I.*); Rombald's Moor (*J.W.C.* and *C.S.*); Richmond (*J. Sang*); Ripon (*J. Waite*); Scarborough (*T.W.*).

Larentia didymata *L.* Abundant everywhere.

Very dark forms are common in the south West Riding.

Larentia multistrigaria *Haw.* Of general occurrence and in many districts plentiful. Mr. Butterfield has taken a peculiar dark form near Bingley.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Bradford ! (*J.W.C.*); Huddersfield!! (*G.T.P.*); Meanwood! (*J.W.T.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Larentia cæsiata *W.V.* Very abundant on all the high moors in the West Riding, and many beautiful dark varieties occur.

Barden and Burnsall Moors !! (*W.D.R.*); Blubberhouses ! (*Lord Walsingham*); Bradford !! (*J.W.C.*); Halifax ! (*G.T.P.*); Harrogate (*J. Sang*); Huddersfield !! (*G.T.P.*); Ilkley (*W.E.C.*); Pateley Bridge (*G. Jackson*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); York, one specimen in 1877 (*W.P.*).

Larentia ruficinctata *Gn.* Mr. J. W. Carter sent me for determination a specimen of this species taken on Malham Moor, August, 1876. It had previously been reported from Huddersfield, but in that instance I am not sure that a variety of *L. cæsiata* was not mistaken for it.

Larentia salicata *Hüb.* Occurs in widely separated localities, but only in one or two of them does it appear to be very common. The Bingley specimens are darker and have the markings much less clear and distinct than any Scotch specimens I have noticed.

Bingley !! (*E.P.P.B.*); "in 1879, extremely abundant along an old wall bordering the west part of Bingley Wood" (*J. A. Butterfield*); Huddersfield (*S.L.M.*); Richmond (*J. Sang*); Saltaire (*J.W.C.*); Scarborough (*T.IV.*); Wakefield (*IV.T.*).

Larentia olivata *W.V.* Bradford ! (*J.W.C.*); Huddersfield (*J.V.*); Pateley Bridge (*G. Jackson*); Redcar (*J. Sang*); Richmond (*G.P.H.*); Scarborough (*T.IV.*); Sheffield (*A.D.*); Wakefield (*IV.T.*).

Larentia pectinaria *Fuess.* Common and distributed.

Askham Bog (*IV.P.*); Barnsley (*J.H.*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*); Goole (*J. Harrison*); Grassington (*G.T.P.*); Huddersfield ! (*G.T.P.*); Leeds !! (*E.B.*); Pontefract (*B.H.*); Raskelf (*G.T.*); Richmond (*J. Sang*); Scarborough (*G.T.*); Sheffield (*A.D.*); Thorne near Goole (*IV.P.*); Wakefield (*IV.T.*).

Emmelesia affinitata *Steph.* Not generally common.

Bradford ! (*J.W.C.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*T.IV.*); Sheffield (*A.D.*); York (*Stainton's Manual*).

Emmelesia alchemillata *L.* Much commoner than the last.

Askham Bog (*IV.P.*); Balby near Doncaster (*IV.IV.*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*); Flamborough Head (*E.H.*); Huddersfield (*J.V.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Rotherham !! (*IV. Rodgers*); Scarborough (*T.IV.*); Sheffield (*A.D.*); Thorne near Goole (*G.T.P.*); Wakefield (*IV.T.*).

Emmelesia albulata *W.V.* Fairly common in meadows where *Rhinanthus crista-galli* grows.

Balby near Doncaster (*W.W.*); Blubberhouses (*Lord Walsingham*); Bradford (*J.W.C.*); Bramham (*J.Sm.*); Huddersfield, formerly very abundant, but scarce of late years (*G.T.P.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*Stainton's Manual*); near Selby (*C.S.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York ! (*Stainton's Manual*).

Emmelesia decolorata *Hüb.* Generally common amongst *Lychnis*.

Askham Bog (*W.P.*); Balby near Doncaster (*W.W.*); Barnsley (*J.H.*); Beverley (*J. Harrison*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*); Hambleton (*G.T.*); Hornsea (*N.F.D.*); Huddersfield !! (*G.T.P.*); Leeds (*E.B.*); Pateley Bridge (*W.D.R.*); Pontefract (*B.H.*); Richmond (*G.P.H.*); Scarborough ! (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); Wentbridge (*G.T.*).

Emmelesia tæniata *Steph.* We have only one locality for this local species.

Scarborough (*T.W.*).

Eupithecia venosata *Fab.* Not uncommon amongst *Silene inflata*.

Barnsley (*J.H.*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*); Huddersfield (*G.T.P.*); Leeds (*C.S.* and *J.W.T.*); Leyburn (*J. Sang*); Pontefract (*B.H.*); Richmond (*G.P.H.*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*T. Wilson*).

Eupithecia linariata *W.V.* Generally common amongst toadflax, but seldom seen in the imago state. The larvae used to feed in profusion in the flowers and seed-capsules of *Linaria vulgaris* growing in my garden and adjoining fields, but I never saw more than one or two moths on the wing there, although I often looked for them.

Barnsley (*J.H.*); Bramham! (*J.Sm.*); Huddersfield!! (*G.T.P.*); Kirkstall (*J.W.T.*); Leeds (*C.S.*); Pontefract (*B.H.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Eupithecia pulchellata *Steph.* Not uncommon amongst foxglove.

Barnsley (*J.H.*); Bishop's Wood (*G.T.*); Bradford (*J.W.C.*); Harrogate (*Stainton's Manual*); Huddersfield (*G.T.P.*); Leeds (*E.B.*); Scarborough (*T.W.*); Sheffield (*A.D.* and *W.W.*); York (*J.T.C.*).

Eupithecia centaureata *W.V.* Flamborough Head (*E.H.*); Huddersfield (*G.T.P.*); Leeds (*E.B.*); Pontefract (*B.H.*); Scarborough (*P.I.*); Sheffield (*A.D.*); York (*J.T.C.*).

Eupithecia succenturiata *L.* Pontefract (*B.H.*); Scarborough (*Stainton's Manual*); York (*Stainton's Manual*).

Eupithecia subfulvata *Haw.* Barnsley (*J.H.*); Flamborough Head (*E.H.*); Richmond, also the variety **oxydata** *Tr.* (*G.P.H.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*W.P.*).

Eupithecia subumbrata *W.V.* Not common.

Sheffield (*A.D.*); York (*Stainton's Manual*).

Eupithecia plumbeolata *Haw.* Adel near Leeds (*G.T.*); Huddersfield (*P.I.*); Scarborough (*Stainton's Manual*); Sheffield (*A.D.*).

Eupithecia pygmæata *Hüb.* — We have several localities for this day-flying species.

Bolton Woods; Bramham (*J.Sm.*); Richmond (*G.P.H.* and *J. Sang*); between Royston and Wakefield (*J.H.*); Scarborough (*T.W.*); Wharnccliffe, one in 1881 (*F. Ellis*); York (*Stainton's Manual*).

Eupithecia satyrata *Hüb.* Bramham (*J.Sm.*); Richmond (*G.P.H.* and *J. Sang*); Scarborough (*Stainton's Manual*).

Eupithecia castigata *Haw.* Common, probably everywhere. Askham Bog (*W.P.*); Barnsley (*J.H.*); Bingley (*E.P.P.B.*); Bramham (*J.Sm.*); Huddersfield (*G.T.P.*);

Richmond (*J. Sang*); Scarborough (*F.O.M.*); Sheffield (*A.D.*); York !! (*W.P.*).

- **Eupithecia trisignata** *H.S.* Bishop's Wood !! (*W.P.*); Harrogate (*J. Sang*); Sharlston near Wakefield (*G.T.P.*); Scarborough (*T.W.*); York (*W.P.*).

Eupithecia lariciata *Frey.* Generally common wherever larch grows in any quantity.

Adel near Leeds (*G.T.*); Bingley (*E.P.P.B.*); Bishop's Wood (*G.T.P.*); Blubberhouses (*Lord Walsingham*); Brantingham near Brough !! (*G.T.P.*); Edlington near Doncaster (*J.H.*); Huddlestone (*C.S.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wentbridge (*G.T.*); York (*W.P.*).

Eupithecia virgaureata *Dbl.* Harrogate (*J. Sang*); Huddersfield (*P.I.*); Scarborough (*T.W.*).

Eupithecia albipunctata *Haw.* Local, but not uncommon in some localities amongst *Angelica sylvestris*, on the flowers and seeds of which the larva feeds. Mr. W. Prest breeds a black form from the larvæ he collects at Bishop's Wood, which the Rev. H. Harpur Crewe, M.A., has described as variety *angelicata*.

Askham Bog (*W.P.*); Bishop's Wood !! (*J.G.* and *W.P.*); Bramham (*J.Sm.*); Harrogate (*J. Sang*); Richmond (*G.P.H.*); Scarborough (*T.W.*); Sheffield (*A.D.*); York (*W.P.*).

Eupithecia valerianata *Hüb.* Larvæ in flowers of *Valeriana officinalis* at Askham Bog (*W.P.*).

Eupithecia pimpinellata *Hüb.* Askham Bog (*W.P.*); Bradford (*J.W.C.*); York !! (*W.P.*).

Eupithecia fraxinata *Crewe.* Seldom seen in the imago state, but probably only wants looking for to be found much commoner. I find the larvæ freely on ash, where they

shew a great partiality for the leaves on the young shoots, which often spring from the trunk near the ground.

Askham Bog (*W.P.*) ; Halifax (*Stainton's Manual*) ; Huddersfield ! (*G.T.P.*) ; Sheffield (*A.D.*) ; York (*T. Wilson*).

Eupithecia extensaria *Frey*. Our county has produced the only two specimens of this species which have yet been taken in Britain. Mr. W. Prest detected a specimen in the boxes of Mr. Buck, who took it on *Artemisia* at Spurn about 1870. The other specimen was taken on waste ground near Hull in June 1873 by Mr. Sawyer, and is now I believe in the collection of Mr. Philip B. Mason, F.L.S., of Burton-on-Trent.

Eupithecia indigata *Hüb.* Adel near Leeds (*W.H.T.*) ; Bramham (*J.Sm.*) ; Richmond (*J. Sang*) ; Scarborough (*Stainton's Manual*) ; Sheffield (*A.D.*) ; Wakefield (*W.T.*) ; York !! (*W.P.*).

Eupithecia constrictata *Gn.* Very local.

Bramham (*J.Sm.*) ; Richmond ! (*G.P.H.*).

Eupithecia nanata *Hüb.* Apparently abundant on all heaths.

Adel Moors (*W.H.T.*) ; Askham Bog (*W.P.*) ; Barnsley (*J.H.*) ; Blubberhouses (*Lord Walsingham*) ; Bradford (*J.W.C.*) ; Halifax !! (*G.T.P.*) ; Harrogate (*J. Sang*) ; Huddersfield !! (*G.T.P.*) ; Pontefract (*B.H.*) ; Richmond (*J. Sang*) ; Saddleworth (*G.T.P.*) ; Scarborough (*G.T.*) ; Sheffield (*A.D.*) ; Thorne Waste (*W.P.*).

Eupithecia subnotata *Hüb.* Askham Bog (*W.P.*) ; Bradford (*J.W.C.*) ; Bramham (*J.Sm.*) ; Huddersfield !! (*G.T.P.*) ; Leeds (*E.B.*) ; Pontefract (*B.H.*) ; Richmond (*G.P.H.*) ; Sheffield (*A.D.*).

Eupithecia vulgata *Haw.* Abundant no doubt everywhere.

Adel near Leeds (*C.S.*) ; Askham Bog (*W.P.*) ; Barnsley (*J.H.*) ; Bramham ! (*J.Sm.*) ; Huddersfield !! (*G.T.P.*) ;

Pontefract (*B.H.*); Redcar (*J. Sang*); Richmond (*J. Sang*); Scarborough ! (*Stainton's Manual*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Eupithecia absynthiata *L.* Askham Bog (*W.P.*); Huddersfield (*G.T.P.*); Richmond (*G.P.H.*); Scarborough ! (*Stainton's Manual*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Eupithecia minutata *Hüb.* Adel near Leeds (*G.T.*); Bingley (*E.P.P.B.*); Blubberhouses (*Lord Walsingham*); Huddersfield, abundant in woods having an undergrowth of *Calluna vulgaris*, but not on the open heaths or moors (*G.T.P.*); Richmond (*G.P.H.*); Sheffield (*A.D.*); Thorne Waste (*W.P.*); York (*T. Wilson*).

Eupithecia assimilata *Dbl.* Common; the larva feeds on hop, and in gardens on currant-bushes.

Askham Bog (*W.P.*); Bradford (*J. W.C.*); Huddersfield !! (*G.T.P.*); Richmond (*G.P.H.*); Sheffield (*A.D.*).

Eupithecia tenuiata *Hüb.* Larvæ in sallow catkins.

Askham Bog (*W.P.*); Bramham (*J.Sm.*); Richmond (*G.P.H.*); Scarborough (*T.W.*); Sheffield (*A.D.*).

Eupithecia subciliata *Gn.* This local species was taken not uncommonly about maples, on the flowers of which the larva feeds, in the Copgrove Woods, by various members on a joint excursion of several Yorkshire Naturalists' Societies to Boroughbridge on the August Bank Holiday, 1876. The first specimen was secured by Mr. C. Smethurst of Leeds (*G.T.P.*).

Eupithecia dodoneata *Gn.* Another scarce species.

Scarborough (*T.W.*); Sheffield (*W. Thomas, Ent. W. Int., May 11th, 1861*); York (*T. Wilson*).

Eupithecia abbreviata *Steph.* Askham Bog (*W.P.*); Bramham ! (*J.Sm.*); Castle Howard (*W.P.*); Doncaster (*W.W.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough !! (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Eupithecia exiguata *Hüb.* Askham Bog (*W.P.*); Bishop's Wood (*G.T.P.*); Doncaster (*W.W.*); Huddersfield (*P.I.*); Richmond (*J.Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Eupithecia sobrinata *Hüb.* York, out of juniper (*T. Wilson, Entomologists' Monthly Magazine*, xiv. 212).

Eupithecia togata *Hüb.* Mr. J. Sang of Darlington assures me that a specimen of this species was taken at Richmond; and this is further confirmed by the Rev. G. P. Harris, formerly of Richmond, who says the specimen was taken by Mr. Groves.

Eupithecia pumilata *Hüb.* Huddersfield, one in 1871 by Mr. S. L. Mosley (*G.T.P.*); Leeds (*E.B.*); Scarborough! (*Stainton's Manual*).

Eupithecia coronata *Hüb.* Scarborough (*Stainton's Manual*).

Eupithecia rectangulata *L.* Not uncommon.

Askham Bog (*W.P.*); Bramham! (*J.Sm.*); Edlington Wood (*G.T.P.*); Huddersfield (*J.V.*); Pannal (*W.D.R.*); Richmond (*G.P.H.*); Scarborough (*Stainton's Manual*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Collix sparsata *Hüb.* Some seasons common in Askham Bog, York, which is one of the few British localities of the species. The larvæ feed on *Lysimachia vulgaris* (*W.P.*).

Lobophora sexalata *Hüb.* Rare.

Askham Bog (*W.P.*); Scarborough (*T.W.*).

Lobophora hexapterata *W.V.* Found amongst aspen, but not very common.

Bramham! (*J.Sm.*); Edlington Wood (*J.H.*); Rotherham (*Wm. Rodgers*); Scarborough (*G.T.P.*); Sheffield (*A.D.*).

Lobophora viretata *Hüb.* A scarce species with us.

Richmond (*G.P.H.* and *J. Sang*); Scarborough (*T.W.*).

Lobophora lobulata *Hüb.* The commonest of the genus.

Adel near Leeds (*C.S.*); Askham Bog (*W.P.*); Bishop's Wood (*C.S.*); Bramham, on alder trunks in March (*J.Sm.*); Pontefract (*B.H.*); Richmond (*G.P.H.*); Scarborough !! (*T.W.*); Sheffield (*A.D.*); York !! (*W.P.*).

Lobophora simulata *Hüb.* Very rare, I have never seen it.
Huddersfield (*P.I.*); York (*R.C.*).

Thera variata *W.V.* Not uncommon in fir woods.

Adel (*G.T.*); Bishop's Wood (*C.S.*); Bramham ! (*J.Sm.*); Harrogate (*J. Sang*); Huddersfield (*J.V.*); Leeds (*C.S.*); Pontefract (*B.H.*); Richmond (*G.P.H.* and *J. Sang*); Sandburn near York (*W.P.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Thera firmata *Hüb.* Local, but common in some places.

Bramham (*J.Sm.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*Stainton's Manual*); Wakefield (*W.T.*); York !! (*W.P.*).

Hypsipetes ruberata *Frey.* Askham Bog (*W.P.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); York (*T. Wilson*).

Hypsipetes impluviata *W.V.* Fairly common amongst alders.

Adel near Leeds (*J.W.T.*); Askham Bog (*W.P.*); Bishop's Wood (*C.S.*); Bradford (*J.W.C.*); Bramham (*J.Sm.*); Halifax (*G.T.P.*); Huddersfield (*G.T.P.*); Pontefract (*B.H.*); Richmond (*G.P.H.*); Scarborough (*Stainton's Manual*); Sheffield (*A.D.*); Thorner (*G.T.*).

Hypsipetes elutata *W.V.* Very abundant everywhere, and varies considerably. In the south West Riding there appear to be two distinct races: a small very dark, often quite black, form which occurs on the moors and in woods having an undergrowth of bilberry and ling; and the other the ordinary larger and usually greener form, which occurs

in lanes and woods generally. Both forms are equally plentiful within a good radius around Huddersfield, the small dark form feeding principally I think on bilberry, the other feeding on willow and many other trees.

Melanthia rubiginata *W.V.* Generally common.

Adel !! (*C.S.*); Askham Bog (*W.P.*); Bishop's Wood (*C.S.*); Bradford !! (*J.W.C.*); Bramham ! (*J.Sm.*); Huddersfield (*G.T.P.*); Pontefract (*B.H.*); Richmond (*J.Sang*); Scarborough (*J.H.R.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Melanthia ocellata *L.* Common and generally distributed.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Bradford ! (*J.W.C.*); Bramham ! (*J.Sm.*); Harrogate (*J.Sang*); Huddersfield ! (*G.T.P.*); Leeds (*E.B.*); Pontefract (*B.H.*); Richmond (*J.Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Melanthia albicillata *L.* Fairly distributed and common.

Bishop's Wood !! (*G.T.P.*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*); Cudworth near Barnsley (*G.T.P.*); Edlington Wood ! (*G.T.P.*); Ilkley (*W.E.C.*); Pontefract (*B.H.*); Richmond (*J.Sang*); Scarborough (*J.H.R.*); Sheffield (*A.D.*); Thorne !! (*C.S.*); Wakefield (*G.T.P.*); Washburn Valley (*J.G.*); Wharnccliffe (*C.S.*); York ! (*W.P.*).

A very dark form, variety *suffusa* *Carrington*, has been bred by Mr. T. Meldrum of Ripon.

Melanippe hastata *L.* Common in several localities among birch.

Bishop's Wood ! (*W.E.C.*); Edlington Wood ! (*G.T.P.*); Huddersfield (*G.T.P.*); New Park Spring Woods, Cudworth !! (*G.T.P.*); Scarborough (*Stainton's Manual*); Sheffield (*A.D.*); Wakefield (*W.T.*); Wharnccliffe (*C.S.*); York (*Stainton's Manual*).

Melanippe tristata *L.* Barden ! (*E.P.P.B.*) ; Barnsley (*J.H.*) ; Blubberhouses (*Lord Walsingham*) ; Huddersfield (*G.T.P.*) ; Scarborough (*T.W.*) ; Wakefield (*W.T.*) ; Wharnccliffe near Sheffield (*A.D.* and *W.W.*).

Melanippe rivata *Hüb.* Bramham ! (*J.Sm.*) ; Huddersfield (*G.T.P.*) ; Rotherham (*W. Rodgers*) ; Wakefield (*W.T.*).

Probably occurs in many other localities, but has been passed over as *M. subtristata*.

Melanippe subtristata *Haw.* Apparently very common throughout the county.

Melanippe montanata *W.V.* Abundant everywhere.

A form taken by Mr. T. Eedle at Blubberhouses in 1882 "was very like the extreme northern form" (*Lord Walsingham*).

Melanippe galiata *W.V.* Abundant in the south West Riding among *Galium saxatile* ; also common elsewhere.

Bradford ! (*J.W.C.*) ; Halifax (*G.T.P.*) ; Huddersfield !! (*G.T.P.*) ; Leeds (*C.S.*) ; Pontefract (*B.H.*) ; Scarborough ! (*T.W.*) ; Sheffield (*A.D.*) ; Wakefield (*W.T.*) ; York (*Stainton's Manual*).

Melanippe fluctuata *L.* Abundant everywhere.

Anticlea rubidata *L.* Bramham ! (*J.Sm.*) ; Doncaster (*W.P.*).

Anticlea badiata *W.V.* Plentiful no doubt everywhere among rose.

Askham Bog (*W.P.*) ; Barnsley (*J.H.*) ; Bishop's Wood (*G.T.*) ; Bradford (*J.W.C.*) ; Bramham ! (*J.Sm.*) ; Huddersfield !! (*G.T.P.*) ; Leeds !! (*W.H.T.*) ; Pontefract (*B.H.*) ; Richmond (*J. Sang*) ; Scarborough (*T.W.*) ; Sheffield (*A.D.*) ; Wakefield (*W.T.*) ; York (*J. Birks*).

Anticlea derivata *W.V.* Common, but not so plentiful as the last.

Askham Bog (*W.P.*); Beverley (*J. Harrison*); Bingley (*E.P.P.B.*); Boroughbridge (*H. Andrews*); Bramham! (*J.Sm.*); Doncaster (*J.H.*); Huddersfield (*J.V.*); Huddlestone (*C.S.*); Pontefract (*B.H.*); Plumptre (*W.D.R.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York! (*T.H.A.*).

Anticlea berberata *W.V.* Mr. A. Doncaster assures me this species "used to occur on a barberry hedge at Marr, near Doncaster, but the hedge is now replaced by a stone wall, and probably the species is extinct there"; Richmond (*G.P.H.*).

Coremia munitata *Hüb.* A local species.

Rotherham (*W. Rodgers*); Scarborough (*T.W.*); Sheffield, not scarce (*A.D.*).

Coremia propugnata *W.V.* Bradford (*J.W.C.*); Blubberhouses (*Lord Walsingham*); Doncaster (*J.H.*); Harrogate (*J. Sang*); Huddersfield (*P.I.*); Leeds (*E.B.*); Muker (*S.L.M.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*Stainton's Manual*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*Stainton's Manual*).

Coremia ferrugata *L.* Askham Bog (*W.P.*); Blubberhouses, a variety (*Lord Walsingham*); Bradford (*J.W.C.*); Bramham! (*J.Sm.*); Doncaster (*J.H.*); Huddersfield (*G.T.P.*); Leeds (*E.B.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Coremia unidentaria *Haw.* Askham Bog (*W.P.*); Bishop's Wood (*G.T.*); Boroughbridge (*G.T.P.*); Bramham (*J.Sm.*); Harrogate (*J. Sang*); Leeds (*E.B.*); also recorded as having occurred at Huddersfield, but I have never seen it there.

Camptogramma bilineata *L.* Abundant almost everywhere, but less so in the south West Riding than elsewhere.

Camptogramma fluviata *Hüb.* A specimen of this rarity was taken at York by Mr. W. Prest, on May 22nd, 1860, and another on July 4th, 1868, by Mr. J. T. Carrington (*Ent. W. Int.*, Oct. 20th, 1860, and *Ent. Ann.* 1869, p. 141, respectively).

Phibalapteryx lignata *Hüb.* Partial to marshy ground.
Askham Bog (*W.P.*); Pontefract (*B.H.*); Scarborough (*T.W.*).

Phibalapteryx polygrammata *Bork.* Very rare.
Scarborough (*T.W.*).

Scotosia dubitata *L.* Moderately common.
Askham Bog (*W.P.*); Barnsley (*J.H.*); Bradford (*J.W.C.*); Bramham (*J.Sm.*); Huddersfield (*G.T.P.*); Ilkley ! (*E.B.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Scotosia vetulata *W.V.* Not a common species.
Askham Bog (*W.P.*); Doncaster (*G.T.P.* and *W.P.*).

Scotosia rhamnata *W.V.* Is recorded from one locality only.
Askham Bog (*W.P.*).

Scotosia certata *Hüb.* Bedale (*W. Culverwell*); Pontefract (*B.H.*).

Scotosia undulata *L.* A pretty but uncommon species.
Askham Bog (*W.P.*); Bishop's Wood (*C.S.*); Leeds (*E.B.*).

Cidaria psittacata *W.V.* Local.
Pontefract (*B.H.*); Richmond (*G.P.H.* and *J. Sang*); Scarborough (*T.W.*); Wentbridge (*C.S.*); near York (*J.T.C.*).

Cidaria miata *L.* Fairly common.
Barnsley (*J.H.*); Huddersfield (*G.T.P.*); Leeds (*A. Denny*); Pontefract (*B.H.*); Richmond (*G.T.P.* and *J. Sang*); Scarborough (*J.H.R.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*R.C.*).

Cidaria corylata *Thunb.* Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*C.S.*); Bradford (*J.W.C.*); Bramham! (*J.Sm.*); Edlington Wood (*G.T.P.*); Huddersfield (*G.T.P.*); Ingleton (*C.S.*); Pontefract (*B.H.*); Richmond (*J.Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Cidaria russata *W.V.* Common everywhere and very variable.

Dark forms, including the variety *perfuscata* *Haw.*, are plentiful, much more so than in the southern counties. In Butternab Wood, Huddersfield, I have more than once taken a variety I do not remember to have seen elsewhere: it is darker even than *perfuscata* and quite different in colour; the central band is black on a very dark reddish-brown ground, and with no trace of the usual slaty grey. A figure of the variety, as well as of the Yorkshire form of *perfuscata*, is given in Part xi. of Mosley's Illustrations of Varieties of British Lepidoptera.

Varieties *centum-notata* *Fab.* and *comma-notata* *Haw.*, I believe both occur, but I think not nearly so commonly as the dark forms.

Cidaria immanata *Haw.* Also apparently common throughout the county, and like *C. russata* is very variable, but the tendency of the variation is much paler generally than in that species. Variety *marmorata* *Haw.* may perhaps be taken as a central type of the variation.

Cidaria suffumata *W.V.* Generally distributed and often abundant.

The dark rich brown form *piceata* *Steph.*, sometimes occurs; and in the south West Riding a very beautiful variety with black median band and basal blotch on a pure white ground has been several times taken. The best I have ever seen is in my own cabinet, and was taken at Huddersfield in May 1871. The specimen is figured in the Entomologist of May, 1878, and also in Mosley's Illustrations of Varieties of British Lepidoptera, Part xi.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood!! (*G.T.P.*); Bradford (*J.W.C.*); Bramham! (*J.Sm.*); Easingwold! (*G.T.*); Huddersfield! (*G.T.P.*); Leeds (*E.B.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*); Wentbridge (*G.T.*); York (*W.P.*).

Cidaria silaceata *W.V.* Not uncommon.

Bishop's Wood! (*G.T.P.*); Bramham (*J.Sm.*); Huddersfield, rare (*J.V.*); Richmond (*G.P.H.* and *J. Sang*); Scarborough! (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*Stainton's Manual*).

Cidaria prunata *L.* Found in gardens among currant bushes.

Bingley (*E.P.P.B.*); Bramham (*J.Sm.*); Grassington (*C.S.*); Huddersfield (*G.T.P.*); Leeds (*E.B.*); Pontefract (*B.H.*); Raskelf (*G.T.*); Richmond (*G.P.H.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*R.C.*).

Cidaria testata *L.* Apparently abundant on all heaths, and in woods having an undergrowth of *Calluna vulgaris*, throughout the county.

Cidaria populata *Bork.* Abounds on all the moors and wherever bilberry grows freely in the West Riding.

Barden (*W.D.R.*); Barnsley (*J.H.*); Bishop's Wood (*C.S.*); Bradford! (*J.W.C.*); Halifax!! (*G.T.P.*); Harrogate (*J. Sang*); Huddersfield!! (*G.T.P.*); Ilkley (*A. Denny*); Leeds (*W.H.T.*); Marsden!! (*G.T.P.*); Pateley Bridge (*G. Jackson*); Pontefract (*B.H.*); Richmond (*J. Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*); York! (*Stainton's Manual*).

Cidaria fulvata *Forst.* Common among rose, probably everywhere.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Boroughbridge (*G.T.P.*); Bramham! (*J.Sm.*); Filey (*G.T.*); Goole (*J. Harrison*); Huddersfield!! (*G.T.P.*); Leeds

(*E.B.*); Micklefield (*C.S.*); Pannal !! (*W.D.R.*); Pontefract (*B.H.*); Raskelf (*G.T.*); Redcar (*J. Sang*); Richmond (*J. Sang*); Sharlston (*G.T.P.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Cidaria pyraliata *Bork.* Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*G.T.*); Bradford (*J.W.C.*); Bramham (*J.Sm.*); Edlington Wood! (*G.T.P.*); Huddersfield (*J.V.*); Leeds (*W.H.T.*); Pontefract (*B.H.*); Redcar (*J. Sang*); Richmond (*J. Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Cidaria dotata *L.* Askham Bog (*W.P.*); Pontefract (*B.H.*); Richmond (*G.P.H.*); Wakefield (*W.T.*).

Pelurga comitata *L.* Widely distributed and common.

Askham Bog (*W.P.*); Balby near Doncaster (*W.W.*); Barnsley (*W.W.*); Bradford (*J.W.C.*); Bramham! (*J.Sm.*); Goole (*John Harrison*); Huddersfield! (*G.T.P.*); Leeds (*E.B.*); Otley (*C.S.*); Pontefract (*B.H.*); Richmond (*G.P.H.*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Eubolia cervinaria *W.V.* Brigg near Selby (*C.S.*); Brough (*G.T.P.*); Huddersfield (*G.T.P.*); Pontefract (*B.H.*); Richmond (*G.P.H.*); Scarborough! (*J.H.R.*); Sheffield (*A.D.*); Wakefield (*W.T.*); Wetherby (*C.S.*); York (*J.T.C.*).

Eubolia mensuraria *W.V.* Plentiful almost everywhere, scarce only in some parts of the south West Riding.

Eubolia mæniata *W.V.* A very fine specimen of this species, of which only one or two others are known to have occurred in Britain, was taken by Mr. W. Prest among broom near York, on August 19th, 1866 (*Ent. Ann.*, 1867, p. 157).

Eubolia palumbaria *W.V.* Not uncommon on heaths, &c. Adel near Leeds (*W.H.T.*); Askham Bog (*W.P.*); Barnsley (*J.H.*); Bradford! (*J.W.C.*); Bramham (*J.Sm.*);

Huddersfield (*G.T.P.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough ! (*Stainton's Manual*); Sheffield (*A.D.*); Whitby (*W.E.C.*).

Eubolia bipunctaria *W.V.* Common on the cliffs on the coast.

Filey (*G.T.*); Flamborough Head !! (*E.H.*); Richmond (*G.P.H.*); Scarborough ! (*G.T.P.*); York (*Stainton's Manual*).

Carsia imbutata *Hüb.* Common on Thorne Waste, near Goole, which is its only Yorkshire locality (*G.T.P.*, *W.P.*, *S.D.B.*, and *W.W.*).

Anaitis plagiata *L.* Barnsley (*J.H.*); Bishop's Wood (*C.S.*); Bramham (*J.W.T.*); Huddersfield (*S.L.M.* and *J.V.*); Ledstone (*C.S.*); Mickfield (*C.S.*); Scarborough (*J.H.R.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Chesias spartiata *Fab.* Pontefract (*B.H.*); Rastrick near Huddersfield, a specimen brought to me to name in 1878 (*G.T.P.*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*G. Wilson, Naturalist, May, 1882, p. 161*); York (*W.P., Ent. W. Int., 1860, p. 44*).

Tanagra chærophyllata *L.* Widely distributed and often abundant.

Barnsley (*J.H.*); Blubberhouses ! (*Lord Walsingham*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*); Dewsbury (*G.T.P.*); Driffeld (*L. B. Ross*); Edlington near Doncaster (*J.H.*); Harrogate (*J. Sang*); Huddersfield !! (*G.T.P.*); Leeds (*E.B.*); Pateley Bridge (*W. Storey*); Pontefract (*B.H.*); Redcar (*J. Sang*); Richmond (*J. Sang*); Scarborough !! (*J.H.R.*); Settle (*H. F. Parsons*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*Stainton's Manual*).

DREPANULÆ.

Platypteryx lacertula *Hüb.* Pontefract (*B.H.*); Scarborough ! (*T.W.*); Sheffield (*A.D.*); Wharnccliffe Woods (*W. H. Smith*); York (*Stainton's Manual*).

Platypteryx falcula *W.V.* Adel near Leeds (*W.H.T.*); Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*C.S.*); Bradford ! (*J.W.C.*); Bramham ! (*J.Sm.*); Doncaster ! (*W.W.*); Huddersfield (*P.I.*); Pontefract (*B.H.*); Scarborough (*T.W.*); Sheffield (*A.D.*); Thorne near Goole (*W.P.*); Wakefield (*W.T.*); York ! (*W.P.*).

Cilix spinula *W.V.* Generally common among hawthorn.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*W.P.*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*); Huddersfield ! (*G.T.P.*); Leeds ! (*E.B.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*).

PSEUDO-BOMBYCES.

Dicranura bicuspis *Bork.* The late Mr. T. Wilkinson sent me this rare species from Scarborough, where he used to take it in some numbers. Records for other localities are as follows :—

Goathland near Whitby (*F.O.M., British Moths*, 1871, ii. 47); Guisborough, several (*W. Jeffrey, Ent. W. Int., Sep.* 11, 1858); Middlesbrough (*Zool.* 1857, xv. 5825); Ripon (*T. Meldrum, Ent. W. Int.*, ix. 107); Yarm, empty cocoons (*W. Lister, Entom.*, 1869, iv. 231); York, one by Mr. Robert Cook in 1859 (*Ent. Ann.*, 1860, p. 139); and in 1860 (*T. H. Allis, Ent. W. Int.*, viii. 51).

Dicranura furcula *L.* Bramham! (*J.Sm.*); Headingley near Leeds, one, 1847 (*A. Shipley, Zool.* 1848, vi. 2236); Pontefract (*B.H.*); Richmond (*G.P.H., G.T.P., and J.Sang*); Scarborough, not uncommon (*T.W.*); Selby (*R.H.*); Sheffield (*A.D.*); Whitby! (*W.E.C.*).

Dicranura bifida *Hüb.* Of wider distribution than the last. Askham Bog (*W.P.*); Barnsley (*J.H.*); Bramham! (*J.Sm.*); Doncaster (*W.W.*); Huddersfield (*P.I.*); Pontefract (*B.H.*); Richmond (*G.P.H. and J. Sang*); Scarborough! (*T.W.*); Selby (*R.H.*); Sheffield (*A.D.*); Thorne (*W.W.*); Wakefield (*W.T.*); York! (*T. Wilson*).

Dicranura vinula *L.* Plentiful probably everywhere.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*C.S.*); Bradford! (*J.W.C.*); Bramham! (*J.Sm.*); Bridlington (*M.L.*); Goole (*J. Harrison*); Huddersfield! (*G.T.P.*); Ilkley (*A. Denny*); Leeds! (*W.H.T.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough!! (*P.I.*); Sheffield (*A.D.*); Wakefield (*W.T.*); Washburn-dale (*W.E.C.*); Whitby!! (*W.E.C.*); York (*T. Wilson*).

Stauropus fagi *L.* A great rarity with us. Taken by Mr. Wm. Bowers near Selby in 1864 (*R. Hebson, Naturalist, Old Series*, 1864, i. 255).

Petasia cassinea *Fab.* Bishop's Wood (*C.S.*); Bramham, common on birch trunks early in November (*J.Sm.*); Doncaster! (*W.W.*); Edlington (*J.H.*); Richmond (*G.P.H.*); Scarborough! (*T.W.*); Sheffield (*A.D.*); York (*W.P.*).

Pygæra bucephala *L.* Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*C.S.*); Boroughbridge (*J.G.*); Bradford (*J.W.C.*); Bramham! (*J.Sm.*); Bridlington (*M.L.*); Goole Moors (*J. Harrison*); Harrogate (*J. W. Speck*); Huddersfield (*G.T.P.*); Ilkley (*W.E.C.*); Leeds

(*E.B.*); Pannal (*W.D.R.*); Pontefract (*B.H.*); Richmond (*J.Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*); Wetherby!! (*W.D.R.*).

Clostera curtula *L.* Only recorded from York (*R.C.*, *Entom.*, Feb. 1842; *W.P.*, *Ent. Mo. Mag.*, vii. 256).

Clostera reclusa *W.V.* Also apparently confined to the York district.

Askham Bog (*W.P.*); Strensall Common, the larvæ feed on sallow (*P.I.*).

Ptilodontis palpina *L.* Askham Bog (*W.P.*); Bishop's Wood (*C.S.*); Bramham West Woods (*C.S.*); Richmond (*G.P.H.*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*W.P.*).

Notodonta camelina *L.* Generally common.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*W.E.C.*); Blubberhouses (*Lord Walsingham*); Bradford (*J.W.C.*); Bramham! (*J.Sm.*); Edlington Wood! (*G.T.P.*); Grassington (*J.H.R.*); Halifax (*G.T.P.*); Huddersfield, not uncommon (*G.T.P.*); Hunslet (*J.P.*); Meanwood near Leeds (*W.H.T.*); Market Weighton (*W.P.*); Pontefract (*B.H.*); Richmond (*J.Sang*); Scarborough (*G.T.*); Sheffield (*A.D.*); Wakefield (*W.T.*); Wharnccliffe Woods (*G.T.P.*).

Notodonta dictæa *L.* Askham Bog (*W.P.*); Bramham! (*J.Sm.*); Huddersfield (*J.V.*); Leeds (*A.Denny* and *C.S.*); Pontefract (*B.H.*); Rawmarsh near Rotherham (*F.O.M.*, *Wood's Naturalist*, June, 1837, ii. 166-7); Richmond (*G.P.H.* and *J.Sang*); Scarborough !! (*T.W.*); Selby (*R.H.*); Sheffield (*A.D.*); Wakefield (*W.T.*); Whitby! (*W.E.C.*); York (*W.P.*).

Notodonta dictæoides *Esp.* Barnsley (*J.H.*); Bingley (*J.A.Butterfield*); Bramham (*W.H.T.*); Huddersfield (*P.I.*); Pontefract (*B.H.*); Rotherham (*W.Thomas*);

Scarborough !! (*T.W.*); Selby (*R.H.* and *T.F.*); Sheffield (*A.D.*); Wakefield (*G.T.P.* and *C.W.R.*); York (*W.P.*).

Notodonta dromedarius *L.* Common and widely distributed. The larvæ feed on birch and alder.

Adel Moor (*G.T.*); Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*C.S.*); Bradford (*W.H. Cooper*); Edlington Wood (*G.T.P.*); Halifax (*G.T.P.*); Huddersfield ! (*G.T.P.*); Hunslet ! (*J.P.*); Pannal (*W.D.R.*); Richmond (*J. Sang*); Scarborough !! (*T.W.*); Sheffield (*A.D.*); Wakefield ! (*G.T.P.* and *C.W.R.*); Wharnccliffe Woods (*G.T.P.*).

Notodonta ziczac *L.* Askham Bog (*W.P.*); Barnsley (*J.H.*); Blubberhouses (*Lord Walsingham*); Bramham ! (*J.Sm.*); Huddersfield (*P.I.*); Hunslet (*J.P.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough !! (*T.W.*); Selby (*R.H.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Notodonta trepida *Fab.* Rare.

Bishop's Wood (*R.H.* and *C.S.*); York (*W.P.*); also, according to F. O. Morris, at Doncaster.

Notodonta chaonia *W.V.* I have bred this rather scarce species from larvæ I found crawling down the oak trunks in Edlington Wood (*G.T.P.*). Other reported localities are Bishop's Wood; Pontefract (*B.H.*); Scarborough !! (*T.W.*); Sheffield (*A.D.*); York (*Stainton's Manual*).

Notodonta dodonæa *W.V.* Bishop's Wood (*C.S.*); Scarborough !! (*T.W.*); Sheffield (*A.D.*); York (*W.P.*).

Diloba cæruleocephala *L.* Widely distributed and often common; scarce in some parts of the south West Riding.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*G.T.*); Bramham ! (*J.Sm.*); Brough (*G.T.P.*); Goole (*J.W.C.*); Leeds (*C.S.*); Pontefract (*B.H.*); Raskelf (*G.T.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Thirsk (*G.T.*); Wakefield (*W.T.*).

NOCTUÆ.

Thyatira derasa *L.* Widely distributed and not uncommon.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*C.S.*); Boroughbridge (*H. Andrews*); Bramham (*J.Sm.*); Doncaster !! (*W.W.*); Goole Barracks (*J. Harrison*); in Holderness, Beverley, &c. ! (*N.F.D.*); Meanwood near Leeds (*C.S.*); Pontefract (*B.H.*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); Wharnccliffe Woods (*S.L.M.*).

Thyatira batis *L.* Well distributed and rather common.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood ! (*G.T.P.*); Boroughbridge (*H. Andrews*); Bramham ! (*J.Sm.*); Doncaster ! (*W.W.*); in Holderness, Beverley, &c. ! (*N.F.D.*); Huddersfield (*G.T.P.*); Leeds (*W.H.T.*); Pontefract (*B.H.*); Richmond (*G.T.P.*); Saltaire (*Wardman*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); Wharnccliffe Woods (*S.L.M.*).

Cymatophora duplaris *L.* Askham Bog (*W.P.*); Bishop's Wood ! (*G.T.P.* and *C.S.*); Bramham (*J.Sm.*); Edlington Wood (*J.H.*); in Holderness, Beverley, &c. (*N.F.D.*); Huddersfield (*P.I.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*).

Cymatophora fluctuosa *Hüb.* Barnsley (*J.H.*); Rotherham (*Wm. Rodgers*); Sheffield (*A.D.*); Wakefield, occasionally (*H. Sims* and *W.T.*); Wharnccliffe Woods ! (*G.T.P.*); York (*T. Wilson*); also recorded from Huddersfield, where I believe it has occurred, although I have never seen it (*G.T.P.*).

Cymatophora diluta *W.V.* Askham Bog (*W.P.*); Barnsley (*J.H.*); Doncaster ! (*W.W.*); Meanwood near Leeds ! (*W.H.T.*); Pontefract (*B.H.*); Scarborough (*T.W.*); Selby (*T.F.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Cymatophora or *W.V.* Very local.

Scarborough !! (*T.W.*); Sheffield (*A.D.*).

Cymatophora flavicornis *L.* Usually common where there is any extent of birch.

Barnsley (*J.H.*); Bishop's Wood (*W.P.*); Blubberhouses (*W.D.R.*); Bradford ! (*J.W.C.*); Bramham !! (*J.Sm.*); Doncaster ! (*W.W.*); Edlington Wood (*G.T.P.*); Huddersfield ! (*G.T.P.*); Leeds ! (*W.H.T.*); Pontefract (*B.H.*); Richmond (*G.P.H.*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*R.C.*).

Mr. S. L. Mosley has taken a very pale variety at Huddersfield.

Cymatophora ridens *Fab.* Sheffield (*A.D.*); York (*W.P.*).

Bryophila perla *W.V.* Generally common, often abundant.

Barnsley (*J.H.*); Beverley ! (*N.F.D.*); Bradford ! (*J.W.C.*); Bramham ! (*J.Sm.*); Goole (*J. Harrison*); Huddersfield (*G.T.P.*); Ilkley (*A. Denny*); Leeds !! (*W.H.T.*); Pannal (*W.D.R.*); Pontefract (*B.H.*); Redcar (*J. Sang*); Richmond (*G.P.H.*); Scarborough !! (*G.T.P.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*R.C.*).

Acronycta tridens *W.V.* Askham Bog (*W.P.*); Beverley ! (*N.F.D.*); Bishop's Wood (*J.W.T.*); Pontefract (*B.H.*); Scarborough (*T.W.*); Sheffield (*A.D.*); York (*T. Wilson*).

Acronycta psi *L.* Common everywhere.

Acronycta leporina *L.* Not uncommon.

Barnsley (*J.H.*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*); Edlington Wood (*G.T.P.*); Huddersfield (*G.T.P.*); Hunslet ! (*J.P.*); Meanwood near Leeds (*W.H.T.*); Pontefract (*B.H.*); Rotherham (*W. Thomas*); Scarborough (*T.W.*); Selby (*T.F.*); Sheffield (*A.D.*); Wakefield (*G.T.P.* and *W.T.*).

At Beverley (*N.F.D.*) and at York (*W.P.*) the dark form, variety **Bradyporina**, *Tr.*, only occurs, not the pale form.

Acronycta megacephala *W.V.* Askham Bog (*W.P.*); Bishop's Wood (*T.F.* and *C.S.*); Bradford (*J.W.C.*); Bramham (*J.Sm.*); Huddersfield (*J.V.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Sheffield (*A.D.*).

Acronycta alni *L.* This species, always considered a great rarity, used to be taken not uncommonly at Scarborough by the late Mr. T. Wilkinson. It has also been taken repeatedly some years at Edlington Wood near Doncaster, and at Haw Park, near Wakefield, in both of which localities as well as about York I have no doubt it might be taken every season if well worked for.

The following records will shew its distribution:—Bishop's Wood (*C.S.*); Bramham, twice on birch (*J.Sm.*); Brantingham near Brough (*Ent. W. Int.*, viii. 195); Doncaster (*W.W.* and others); Edlington Wood (*J.H.* and others); I took a larva there on the upper side of an oak leaf on August 5th, 1882 (*G.T.P.*); Guisborough (*W. Jeffrey, Ent. W. Int.*, iv. 188); Huddersfield, one at sugar by Mr. J. Varley, and one by Mr. F. Dearnley at Nortonthorpe, on June 8th, 1874; Leeds, one in 1858 (*F. Oates, Ent. W. Int.*, p. 203); Rotherham, in 1876 (*James Bloor*); Scarborough, not uncommon (*T.W.*); Selby, in 1878 (*T.F.*); Sheffield (*A.D.*), one on June 14th, 1874 (*W. Sheldon, Entom.*, vii. 178); Wakefield, not very uncommon (*W.T.*, *C.W.R.*, *G.T.P.*, and others); York, not uncommon (*W.P.*).

Acronycta ligustri *W.V.* Local.

Beverley! (*N.F.D.*); Bramham (*J.Sm.*); Bramley Fall Wood near Leeds (*E.B.*); Pontefract (*B.H.*); Scarborough !! (*T.W.*); Sheffield, in old list (*A.D.*); York, not uncommon (*W.P.*).

The York specimens generally are so different from southern ones that at first sight I quite failed to recognize some shewn to me by Mr. Prest. The large blotch towards

the costa instead of being white is olive-green, and indeed the upper wings are marbled all over with this olive-green. Mr. N. F. Dobrée says that this variety greatly preponderates about Beverley (*G.T.P.*).

Acronycta rumicis *L.* Abundant everywhere.

The dark variety, **salicis** *Curt.*, is very common at Huddersfield, and doubtless throughout the south West Riding. It also occurs at Doncaster (*W.W.*); Richmond (*G.P.H.*); and Selby (*T.F.*); so is probably as widely distributed as the type.

Acronycta menyanthidis *Esp.* Generally common on heaths and moors, and sometimes in woods containing bilberry and ling, on which the larva feeds.

Bradford !! (*J.W.C.*); Goole (*J. Harrison*); Halifax (*G.T.P.*); Huddersfield ! (*G.T.P.*); Ilkley (*C.S.*); Riccall Common (*G.T.P.*); Richmond (*J. Sang*); Ripon (*T. Meldrum*); Thorne near Goole (*C.S.* and *W.W.*); Saddleworth (*R. S. Edelston*); Sheffield (*A.D.*); Strensall Common, York (*W.P.*).

"The York specimens" says Mr. W. Prest (*Entom.*, x. 129) "are nearly black." Mr. J. Harrison of Goole has also sent me this very dark form from his district.

Leucania conigera *W.V.* Generally common.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley (*N.F.D.*); Bradford ! (*J.W.C.*); Bramham (*J.Sm.*); Dewsbury (*G.T.P.*); Flamborough Head (*E.H.*); Huddersfield (*G.T.P.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough ! (*G.T.P.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Leucania lithargyria *Esp.* Common, probably everywhere.

Leucania littoralis *Curt.* Abundant at Spurn (*N.F.D.* and *P.W.L.*). Not recorded from elsewhere.

Leucania pudorina *W.V.* Askham Bog (*W.P.*); Bramham (*J.Sm.*); Pontefract (*B.H.*); Scarborough (*T.W.*).

Leucania comma *L.* Not uncommon.

Adel (*W.H.T.*); Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley ! (*N.F.D.*); Bishop's Wood (*G.T.*); Bramham ! (*J.Sm.*); Huddersfield (*G.T.P.*); Pontefract (*B.H.*); Raskelf (*G.T.*); Redcar (*J. Sang*); Richmond (*J. Sang*); Scarborough (*J.H.R.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Leucania impura *Hüb.* Found probably everywhere, and generally common.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley ! (*N.F.D.*); Bradford ! (*J.W.C.*); Flamborough Head (*E.H.*); Goole (*J. Harrison*); Hambleton (*G.T.*); Hook Moor near Aberford (*J.W.T.*); Huddersfield (*G.T.P.*); Leeds (*W.H.T.*); Pontefract (*B.H.*); Redcar (*J. Sang*); Richmond (*J. Sang*); Scarborough (*J.H.R.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Leucania pallens *L.* Abundant everywhere.

A form which I think is the variety *ectypa* *Hüb.* is tolerably common.

Leucania phragmitidis *Hüb.* Askham Bog (*W.P.*); Beverley ! (*N.F.D.*); Bramham (*J.Sm.*).

Tapinostola elymi *Tr.* Common at Spurn (*N.F.D.* and *P.W.L.*).

Mr. Dobrée informs me that this species comes very freely to light. I have taken it in plenty on the Lincolnshire coast at rest after dark on the stems of marram grass and its food plant *Elymus arenarius*.

Nonagria despecta *Tr.* Not common.

Balby near Doncaster (*W.W.*); Beverley (*N.F.D.*).

Nonagria fulva *Hüb.* Fairly common.

Adel near Leeds (*G.T.*); Askham Bog (*W.P.*); Beverley ! (*N.F.D.*); Bishop's Wood (*C.S.*); Blubber-

houses (*Lord Walsingham*); Bradford! (*J.W.C.*); Bramham (*J.Sm.*); Haigh! (*G.T.P.*); Huddersfield (*G.T.P.*); Richmond (*G.P.H.*); Scarborough! (*Stainton's Manual*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Nonagria cannæ *Och.* Mr. P. Inchbald says this species has occurred among bulrush at Shepley Mill near Huddersfield, but I cannot help thinking there is some mistake in connection with it.

Nonagria typhæ *Esp.* Usually not uncommon where *Typha latifolia* grows freely.

Askham Bog (*W.P.*); Beverley! (*N.F.D.*); Huddersfield (*J.V.*); Pontefract (*B.H.*); Roystone near Barnsley (*J.H.*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.* and *C.S.*); Woodlesford (*J.P.*).

Nonagria lutosa *Hüb.* Not uncommon in the eastern division of the county, but a specimen I have in my cabinet, which I took from a gas-lamp in Huddersfield, is the only record of its occurrence in the south West Riding.

Askham Bog (*W.P.*); Balby near Doncaster (*W.W.*); Beverley! (*N.F.D.*); Hull! (*N.F.D.*); Scarborough (*T.W.*); Spurn (*W.E.C.*).

Gortyna flavago *W.V.* Widely distributed and not uncommon. Mr. N. F. Dobrée writes of this species: "In all the specimens I have seen from the East Riding, the size is not more than two-thirds of southern specimens, and the colouring is yellow instead of orange. The difference is so marked that I am surprised that it has not hitherto been noticed in print."

Adel (*C.S.*); Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley! (*N.F.D.*); Bishop's Wood (*G.T.*); Bradford (*J.W.C.*); Doncaster (*W.W.*); Goole (*J. Harrison*); Huddersfield (*G.T.P.*); Leeds (*E.B.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Ripon (*J. Waite*); Scarborough (*T.W.*); Selby (*G.T.P.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Hydræcia nictitans *L.* Plentiful and often very strongly coloured. Very partial to ragwort flowers.

Adel (*A. Denny*); Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley (*N.F.D.*); Bishop's Wood (*W.P.*); Blubberhouses (*Lord Walsingham*); Bradford! (*J.W.C.*); Bramham (*J.Sm.*); Dewsbury (*G.T.P.*); Huddersfield!! (*G.T.P.*); Ilkley! (*W.E.C.*); Leeds! (*W.H.T.*); Pannal! (*W.D.R.*); Pontefract (*B.H.*); Redcar (*J. Sang*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Hydræcia petasitis *Dbl.* Beverley (*N.F.D.*); Huddersfield (*J.V.*); Kirkstall near Leeds (*C.S.*); Scarborough (*T.W.*); on the banks of the Don between Sheffield and Rotherham (*A.D.*); Thorner (*C.S.*); Wakefield! (*W.T.*, *C.S.*, and others).

Hydræcia micacea *Esp.* Generally common.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley (*N.F.D.*); Bradford (*J.W.C.*); Bramham (*J.Sm.*); Huddersfield! (*G.T.P.*); Leeds!! (*W.H.T.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Ripon (*J. Waite*); Scarborough!! (*Stainton's Manual*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Axylia putris *L.* Askham Bog (*W.P.*); Bradford (*J.W.C.*); Bramham (*J.Sm.*); Bridlington (*M.L.*); Goole (*J. Harrison*); Huddersfield (*G.T.P.*); Leeds! (*W.H.T.*); Pontefract (*B.H.*); Redcar (*J. Sang*); Richmond (*G.P.H.*); Scarborough!! (*Stainton's Manual*); Wakefield (*W.T.*); York (*T.H.A.*).

Xylophasia rurea *Fab.* Abundant no doubt everywhere.

In the south West Riding the variety **combusta** *Haw.* is about as plentiful as the type, and many of the specimens are exceedingly rich in colour. Mr. S. L. Mosley says the varieties **alopecurus** *Esp.* and **borealis** also occasionally occur at Huddersfield.

Xylophasia lithoxylea *W.V.* Common, probably throughout the county.

Xylophasia sublustris *Esp.* Not common.

Askham Bog (*W.P.*); once at Meanwood near Leeds (*W.H.T.*); Pontefract (*B.H.*); Scarborough (*T.W.*); Wakefield (*W.T.*).

Xylophasia polyodon *L.* Very abundant everywhere.

The black form, variety *infuscata* *White*, is of frequent occurrence both east and west.

Xylophasia hepatica *L.* Widely distributed and not uncommon.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley! (*N.F.D.*); Bradford (*J.W.C.*); Bramham! (*J.Sm.*); Hambleton (*G.T.*); Huddersfield (*P.I.*); Leeds (*E.B.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Saltaire (—, *Wardman*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Xylophasia scolopacina *Esp.* Not uncommon in well wooded districts.

Barnsley (*J.H.*); Bishop's Wood (*C.S.* and *G.T.*); Bramham (*J.Sm.*); Huddersfield (*P.I.*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield, very common at Haw Park some seasons (*G.T.P.*, *W.T.*, and *C.W.R.*); York (*W.P.*).

Neuria saponariæ *Esp.* Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley (*N.F.D.*); Bishop's Wood (*G.T.*); Pontefract (*B.H.*); Richmond (*G.P.H.*); Scarborough! (*T.W.*).

Heliophobus popularis *Fab.* Not uncommon.

Adel (*C.S.*); Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley! (*N.F.D.*); Bramham! (*J.Sm.*); Huddersfield (*G.T.P.*); Leeds (*W.H.T.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield, in old list (*A.D.*); Wakefield (*W.T.*).

Charæas graminis *L.* Of general occurrence and often abundant.

Adel Moor (*W.H.T.*); Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley! (*N.F.D.*); Bishop's Wood (*J.W.T.*); Bradford (*J.W.C.*); Bramham (*J.Sm.*); Grassington (*C.S.*); Huddersfield !! (*G.T.P.*); Hunslet (*J.P.*); Ilkley (*A.Denny*); Pateley Bridge (*A.Denny*); Pontefract (*B.H.*); Redcar (*J.Sang*); Richmond (*J.Sang*); Saddleworth (*R. S. Edleston*); Scarborough (*T.W.*); Sheffield, in old list (*A.D.*); Wakefield (*W.T.*).

Cerigo cytherea *Fab.* Askham Bog (*W.P.*); Beverley! (*N.F.D.*); Bramham (*J.Sm.*); Flamborough Head (*E.H.*); Pontefract (*B.H.*); Redcar (*J.Sang*); Richmond (*J.Sang*).

Luperina testacea *W.V.* Very common, no doubt everywhere. Some good pale varieties occur at Huddersfield.

Luperina cespitis *W.V.* Doncaster (*J.V., Naturalist, N.S., ii. 59*); Huddersfield (*G.T.P.*); Pontefract (*B.H.*); Sheffield (*W. Thomas, Ent. W. Int., Nov. 3, 1860*); Wakefield (*W.T.*); York (*W.P.*).

Mamestra anceps *Hüb.* Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley! (*N.F.D.*); Bradford (*J.W.C.*); Bramham (*J.Sm.*); Huddersfield (*S.L.M.*); Pontefract (*B.H.*); Wakefield (*W.T.*).

Mamestra abjecta *Hüb.* Mr. N. F. Dobrée took eleven specimens and missed several others of this local species at the mouth of the Humber in August, 1880. Also recorded from York by Mr. J. T. Carrington (*Ent. Mo. Mag., v. 77*; also *Ent. W. Int., 1860, p. 134*).

Mamestra albicollis *Hüb.* Common at Spurn (*N.F.D.*).

Mamestra furva *W.V.* Askham Bog (*W.P.*); Barnsley (*W. E. Brady*); Bradford, not common (*J.W.C.*); Hud-

dersfield, rare (*J.V.*); Hull !! (*Stephens' Illustrations*); Scarborough (*Stainton's Manual*); Wakefield (*W.T.*).

Mamestra brassicæ *L.* Very abundant everywhere.

Mamestra persicariæ *L.* Hambleton (*G.T.*); Huddersfield (*G.T.P.*); Goole (*J. Harrison*); Sheffield (*A.D.*); Weeton (*J.P.*).

Apamea basilinea *W.V.* Abundant, probably everywhere.

I have taken some very beautiful strongly coloured specimens at Huddersfield.

Apamea connexa *Bork.* Barnsley (*J.H.*); Scarborough ! (*T.W.*); Sutton-on-Derwent (*Rev. G. R. Read, Ent. W. Int., July 20, 1861*); Wakefield ! (*W.T.*); York (*W.P.*).

Apamea gemina *Hüb.* Common and very variable.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley (*N.F.D.*); Bishop's Wood (*C.S.*); Bradford (*J.W.C.*); Huddersfield ! (*G.T.P.*); Meanwood near Leeds (*W.H.T.*); Redcar (*J. Sang*); Richmond (*J. Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Apamea unanimitis *Hüb.* Not uncommon.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Beeston Royds and Thorp Hall (*C.S.*); Beverley (*N.F.D.*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*); Huddersfield (*G.T.P.*); Leeds (*E.B.*); Sheffield (*Rev. J. Johnson, Zool., 1847, v. 1659*); Wakefield (*W.T.*).

Apamea fibrosa *Hüb.* Very local.

Askham Bog ! (*W.P.*); Beverley (*N.F.D.*); Doncaster, two, in different years (*George Tindall*); Scarborough (*T.W.*); Wakefield (*W.T.*).

Apamea oculea *L.* Abundant everywhere and exceedingly variable.

Mr. S. L. Mosley has taken varieties **didyma** *Bork.*, **l-nigra** *Haw.*, and **rava** *Haw.*, at Huddersfield, and probably all the named varieties are generally plentiful.

Miana strigilis *L.* Abundant everywhere and very variable.

Varieties **latruncula** *Hüb.* and **Æthiops** *Haw.* are very plentiful in the West Riding (*G.T.P.*).

Miana fasciuncula *Haw.* Abundant, both red and brown forms being equally plentiful.

Miana literosa *Haw.* Widely distributed and common.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley (*N.F.D.*); Bingley (*E.P.P.B.*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*); Flamborough Head ! (*E.H.*); Huddersfield !! (*G.T.P.*); Meanwood near Leeds (*W.H.T.*); Pontefract (*B.H.*); Rastrick (*G.T.P.*); Redcar (*J. Sang*); Richmond (*J. Sang*); Scarborough !! (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Miana furuncula *W.V.* Not very common.

Barnsley (*J.H.*); Huddersfield (*P.I.*); Leeds (*E.B.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*F.O.M., Brit. Moths*, 1871, 116).

Miana expolita *Stainton.* Mr. E. P. P. Butterfield took a specimen at Grassington on the Yorkshire Naturalists' Union's visit there, August 7th, 1882, and this appears to be the only known occurrence of the species in the county.

Miana arcuosa *Haw.* Common. The female is very sluggish, but may readily be found by searching the stems of the food plant, *Aira cæspitosa*, with a light after dark.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley ! (*N.F.D.*); Bingley (*E.P.P.B.*); Bishop's Wood (*G.T.*); Blubberhouses (*Lord Walsingham*); Bradford ! (*J.W.C.*); Bramham ! (*J.Sm.*); Flamborough Head (*E.H.*); Halifax (*G.T.P.*); Huddersfield !! (*G.T.P.*); Leeds ! (*W.H.T.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Celæna Haworthii *Curt.* Abundant on the damp parts of the West Riding Moors where the cotton grass grows freely.

Askham Bog (*W.P.*); Bradford (*J.W.C.*); Deerhill, Huddersfield! (*G.T.P.*); Hebden Moors near Grassington !! (*C.S.*); Marsden !! (*G.T.P.*); Penistone (*J.H.*); Richmond (*J. Sang*); Rombalds Moor (*E.P.P.B.*); Saddleworth (*R. S. Edelston*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Grammesia trilinea *W.V.* Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley ! (*N.F.D.*); Bramham ! (*J.Sm.*); Huddersfield (*P.I.*); Meanwood near Leeds (*W.H.T.*); Pontefract (*B.H.*); Richmond (*G.P.H.*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Hydrilla palustris *Hüb.* The following note on this species appears in the Entomologist's Annual for 1855, p. 37:—"A specimen taken near York is in the collection of Mr. Allis." Stainton's Manual gives "Compton's Wood near York" as the locality.

Caradrina Morpheus *Naturf.* Askham Bog (*W.P.*); Huddersfield (*G.T.P.*); Leeds! (*W.H.T.*); Pontefract (*B.H.*); Redcar (*J. Sang*); Richmond (*G.P.H.*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Caradrina Alsines *Bork.* Askham Bog (*W.P.*); Beverley ! (*N.F.D.*); Blubberhouses (*Lord Walsingham*); Bradford (*J.W.C.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Caradrina blanda *W.V.* Askham Bog (*W.P.*); Beverley (*N.F.D.*); Bramham (*J.Sm.*); Huddersfield (*P.I.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*).

Caradrina cubicularis *W.V.* Very common everywhere.

Rusina tenebrosa *Hüb.* Common.

Askham Bog (*W.P.*); Beverley, common, the specimens not being so dark as Scotch examples (*N.F.D.*); Bishop's Wood (*G.T.*); Bradford (*J.W.C.*); Edlington Wood (*J.H.*); Huddersfield ! (*G.T.P.*); Leeds (*E.B.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Agrotis valligera *W.V.* A coast species generally, but occasionally found inland.

Balby near Doncaster, two specimens (*W.W.*); Bradford, one at light (*J.W.C.*); Bramham (*J.Sm.*); Redcar (*J. Sang*); Selby (*K.R.*); Spurn !! (*N.F.D.* and *P.W.L.*).

Agrotis puta *Hüb.* Morris (*British Moths*, 1871, ii. 124) gives Sutton-on-Derwent as a locality for this species, but I know of no other Yorkshire record.**Agrotis suffusa** *W.V.* Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley ! (*N.F.D.*); Bingley ! (*E.P.P.B.*); Bradford (*J.W.C.*); Huddersfield (*J.V.*); Ilkley ! (*E.B.*); Leeds (*W.H.T.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*).**Agrotis saucia** *Hüb.* Not common.

Beverley (*N.F.D.*); Huddersfield (*J.V.*); Leeds (*W.H.T.*); Richmond (*G.P.H.*); Scarborough, some seasons common (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*W.P.*).

Agrotis segetum *W.V.* Common everywhere, but not so plentiful as *A. exclamationis*.**Agrotis exclamationis** *L.* Very abundant everywhere.**Agrotis corticea** *W.V.* Not generally common.

Adel near Leeds (*G.T.*); Askham Bog (*W.P.*); Scarborough (*T.W.*); Spurn !! (*N.F.D.* and *P.W.L.*).

Agrotis ripæ *Hüb.* Common at Spurn, but differs considerably from the southern form (*N.F.D.* and *P.W.L.*).

Agrotis cursoria Bork. Common at the mouth of the Humber, but they are much darker than southern specimens (*N.F.D.*); Spurn !! (*P.W.L.*).

Agrotis nigricans L. Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley ! (*N.F.D.*); Huddersfield (*G.T.P.*); Pontefract (*B.H.*); Redcar (*J. Sang*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*).

Agrotis tritici L. Adel Moors ! (*W.H.T.*); Askham Bog (*W.P.*); Barnsley, rare (*J.H.*); Flamborough Head (*E.H.*); Pontefract (*B.H.*); Redcar (*J. Sang*); Scarborough ! (*Stainton's Manual*); Spurn !! (*N.F.D.* and *P.W.L.*).

Agrotis aquilina W.V. Askham Bog (*W.P.*); Scarborough ! (*Stainton's Manual*); Spurn !! (*N.F.D.* and *P.W.L.*).

Agrotis obelisca W.V. Scarborough, not uncommon (*T.W.*); York (*W.P.*, *Ent. W. Int.*, 1869, p. 44).

Agrotis agathina Dup. The larvæ are often common in suitable heathery situations, but the imago is comparatively seldom seen.

Adel Moors ! (*W.H.T.*); Bingley ! (*E.P.P.B.*); Bradford (*J.W.C.*); Huddersfield (*G.T.P.*); Richmond (*J. Sang* and *G.P.H.*); Scarborough !! (*T.W.*); Sheffield (*A.D.*); York (*W.P.*).

Agrotis porphyrea W.V. Very common on all heaths.

Agrotis præcox L. Spurn (*N.F.D.* and *P.W.L.*); once at York (*Ent. W. Int.*, 1860, p. 134).

Agrotis ravida W.V. Rare, except on the coast.

Askham Bog (*W.P.*); Balby near Doncaster, one (*W.W.*); Scarborough, sometimes abundant (*T.W.*); Spurn !! (*N.F.D.* and *P.W.L.*); Wakefield (*W.T.*).

Agrotis pyrophila W.V. Excessively rare.

"Has occurred at York" (*Stainton's Manual*); is also mentioned in an old list of Sheffield species, but this record needs confirmation.

Agrotis lucernea *L.* Very rare, but I have seen several specimens taken at Huddersfield by different collectors. Mr. Carter sent me one to name from Bradford: and another was brought to me for the same purpose from Brighouse.

Tryphæna janthina *W.V.* Not uncommon.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley (*N.F.D.*); Bingley (*E.P.P.B.*); Bishop's Wood (*W.P.*); Boroughbridge (*H. Andrews*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*); Doncaster (*G.T.P.*); Huddersfield (*G.T.P.*); Ilkley (*A. Denny*); Meanwood near Leeds ! (*W.H.T.*); Pannal ! (*W.D.R.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Tryphæna fimbria *L.* Common.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley, very scarce (*N.F.D.*); Bradford ! (*J.W.C.*); Doncaster (*F.O.M., Neville Wood's Naturalist, May, 1837, ii. 83-85*); Huddersfield ! (*G.T.P.*); Hunslet (*J.P.*); Meanwood near Leeds ! (*W.H.T.*); Pontefract (*B.H.*); Richmond (*G.P.H.*); Scarborough ! (*T.W.*); Selby (*R.H. and T.F.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Tryphæna interjecta *Hüb.* Askham Bog (*W.P.*); Beverley, very scarce (*N.F.D.*); Bramham (*J.Sm.*); Pannal (*W.D.R.*); Pontefract (*B.H.*); Redcar (*J. Sang*); Sheffield (*A.D.*).

Tryphæna subsequa *W.V.* Mr. George Brook, F.L.S., of Huddersfield, took a specimen on the sand-hills at Redcar in July, 1875, which is the only one I have seen.

Tryphæna orbona *Fab.* Common everywhere.

Mr. N. F. Dobrée says some of the specimens taken in Holderness nearly approach the variety **Curtisii**.

Tryphæna pronuba *L.* Abundant everywhere, and most variable in colour.

Noctua glareosa *Esp.* Common in woods where ling grows freely, and found also in other situations, as the larva does not confine itself to ling.

Adel near Leeds! (*W.H.T.*); Barnsley (*J.H.*); Bingley !! (*E.P.P.B.*); Bradford ! (*J.W.C.*); Huddersfield ! (*G.T.P.*); Ilkley !! (*E.B.*); Richmond (*G.P.H.*); Scarborough ! (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*W.P.*).

An extraordinary variety having the wings of a rich chocolate-brown colour was taken by Mr Joseph Jackson near Barnsley in 1873. It was sent to me to name, as its captor quite failed to recognise it (See *Ent. Mo. Mag.*, *Jan.*, 1874, x. 181).

Noctua depuncta *L.* Very local.

Doncaster (*Hugh Reid*, *Zool.*, 1845, iii. 1199); Leyburn (*J. Sang*); Richmond (*G.P.H.*); Scarborough, sometimes abundant (*T.W.*).

Noctua augur *Fab.* Very common, no doubt everywhere.

Noctua plecta *L.* Common, probably everywhere.

Noctua C-nigrum *L.* Generally distributed and rather common.

Askham Bog (*W.P.*); Balby !! (*W.W.*); Barnsley, rare (*J.H.*); Beverley ! (*N.F.D.*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*); Flamborough Head (*E.H.*); Goole (*J. Harrison*); Huddersfield (*G.T.P.*); Leeds (*E.B.*); Pontefract (*B.H.*); Rastrick (*G.T.P.*); Redcar (*J. Sang*); Richmond (*J. Sang*); Ripon (*J. Waite*); Wakefield (*W.T.*); Wharnccliffe Woods (*S.L.M.*).

Noctua triangulum *Och.* Not very common.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Noctua rhomboidea *Tr.* A very local species with us.

Richmond (*G.P.H.*); Scarborough, taken plentifully on Oliver's Mount (*T.W.*).

Noctua brunnea *W.V.* Abundant throughout the West Riding, and probably equally so elsewhere.

Noctua festiva *W.V.* Abundant in most places, and no doubt common everywhere.

Noctua conflua *Tr.* This, by some considered only a variety of *N. festiva*, occurs, Mr. Sang says, on the heaths or mosses at Richmond. I am not sure that I have not seen it on the West Riding moors, and possibly it occurs in other moorland districts, but is generally passed over as *N. festiva*.

Noctua Dahlii *Hüb.* The Bradford district seems to be headquarters for this rather local species: some seasons it visits the ragwort flowers there in profusion, and some nice varieties may be picked out.

Barnsley (*J.H.*); Bingley ! (*E.P.P.B.*); Bradford !! (*J.W.C.*); Huddersfield (*S.D.B.* and others); Meanwood near Leeds ! (*W.H.T.*, *C.S.*, and *G.T.*); Richmond (*G.P.H.*); Sheffield (*A.D.*).

Noctua rubi *Vieweg.* Askham Bog (*W.P.*); Beverley ! (*N.F.D.*); Bramham (*J.Sm.*); Huddersfield (*J.V.*); Meanwood near Leeds ! (*W.H.T.*); Pontefract (*B.H.*); Richmond (*J. Sang*).

Noctua umbrosa *Hüb.* Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley ! (*N.F.D.*); Bishop's Wood (*W.P.*); Bradford ! (*J.W.C.*); Bramham ! (*J.Sm.*); Huddersfield (*G.T.P.*); Meanwood near Leeds ! (*W.H.T.*); Redcar (*J. Sang*); Richmond (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Noctua baja *W.V.* Common, probably everywhere.

Noctua neglecta *Hüb.* Adel Moor near Leeds (*C.S.* and *G.T.*); Richmond (*G.P.H.* and *J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); York (*W.P.*).

Noctua xanthographa *W.V.* Abundant everywhere, and very variable in colour, in the West Riding.

Trachea piniperda *Esp.* Adel Blackmoor (*Walter Buckton*); Beverley, common, "the green variety also occurs in some quantity" (*N.F.D.*); Bramham! (*J.Sm.*); Doncaster (*W.W.*); Huddersfield (*G.T.P.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*W.P.*).

Tæniocampa gothica *L.* Abundant everywhere.

The variety *gothicina* *H.S.*, is reported from Ackworth, Bishop's Wood, Gledhow and Meanwood; and I think I have seen it at Huddersfield.

Tæniocampa leucographa *W.V.* Not of general occurrence.

Bishop's Wood (*J.G.*); Conisborough (*J.H.*); Doncaster!! (*J. R. Hawley, Zool.*, 1846; and *Joseph Wragg, Ent. W. Int.*, 1859); Richmond (*G.P.H.*); Scarborough (*T.W.*); York (*W.P.*).

Tæniocampa rubricosa *W.V.* Common everywhere and abundant in the south West Riding.

Tæniocampa instabilis *W.V.* Very abundant, and no doubt all the named varieties are common.

Tæniocampa opima *Haw.* This species was first added to the British list from specimens taken at York by Mr. T. H. Allis in 1842. Mr. Prest says "the York specimens are much darker than the Cheshire coast forms." This may be so generally, but I have taken specimens on the Wallasey sandhills quite as dark as the York examples. Other localities are: Doncaster! (—, *Evans, Ent. Ann.*, 1855, p. 32; and *J. R. Hawley, Zool.*, 1846); Richmond (*G.P.H.* and *J. Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Tæniocampa populeti *Fab.* Askham Bog (*W.P.*); Bishop's Wood (*W.P.*); Bramham ! (*J.Sm.*); Conisborough (*W.W.*); Doncaster (*J. R. Hawley* and *W.W.*); Huddersfield, very scarce (*G.T.P.*); Richmond (*G.P.H.* and *J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); near York (*W.P.*).

Tæniocampa stabilis *W.V.* Plentiful everywhere, both red and grey forms.

Tæniocampa gracilis *W.V.* Askham Bog (*W.P.*); Beverley, scarce (*N.F.D.*); Bramham ! (*J.Sm.*); Doncaster (*J. R. Hawley*, *Zool.*, 1846, *p.* 1353); Driffeld (*L. B. Ross*); Halifax (*A. H. Davis*, *Loudon's Mag. Nat. Hist.*, 1832, *p.* 245); Huddersfield (*J.V.*); Richmond (*J. Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Tæniocampa miniosa *W.V.* This very pretty species is scarce with us. The larvæ when young feed gregariously on oak.

Doncaster (*J. R. Hawley*, *Zool.*, 1846, *p.* 1353); Huddersfield (*J.V.*); Sheffield (*A.D.*); York (*Stainton's Manual*).

Tæniocampa munda *W.V.* Askham Bog (*W.P.*); Beverley ! (*N.F.D.*); Bishop's Wood (*J.G.*); Bramham ! (*J.Sm.*); Doncaster !! (*J. R. Hawley*, *Zool.*, 1846, *p.* 1353); Huddersfield (*P.I.*); Leeds, at Bramley Fall Wood (*G.T.*); Pontefract (*B.H.*); Richmond (*G.P.H.* and *J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Tæniocampa cruda *W.V.* Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley ! (*N.F.D.*); Bradford ! (*J.W.C.*); Bramham (*J.Sm.*); Doncaster (*J. Hawley*); Halifax (*A. H. Davis*); Huddersfield (*G.T.P.*); Leeds (*W.H.T.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Sheffield (*A.D.*); Thirsk (*G.T.*); Wakefield (*W.T.*).

Orthosia suspecta *Hüb.* Rather common, in some localities abundant. The species was first added to the British list from specimens taken at York by Mr. T. H. Allis (*Ent. Ann.*, 1855, p. 32). Some seasons it abounds in the Bradford district, and perhaps can be taken more plentifully there than anywhere.

Barnsley (*J.H.*); Bingley (*E.P.P.B.*); Bradford !! (*J.W.C.*); Doncaster (*S. Stevens, Zool.*, 1847, v. 1788); Halifax (*G.T.P.*); Huddersfield ! (*G.T.P.*); Meanwood near Leeds (*W.H.T.*); Sheffield (*A.D.*); York, abundant both at Askham Bog and Sandburn (*W.P.*).

Orthosia hypsilon *W.V.* Common amongst old willows and poplars. The larvæ may often be found huddled together in dozens by stripping off the loose bark of old willows in the daytime; or they may be collected as they rapidly ascend the trunks to feed after dusk.

Askham Bog (*W.P.*); Beverley ! (*N.F.D.*); Bishop's Wood (*W.P.*); Bramham ! (*J.Sm.*); Goole (*J. Harrison*); Huddersfield !! (*G.T.P.*); Pontefract (*B.H.*); Richmond (*G.P.H.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Orthosia lota *L.* Not uncommon.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley ! (*N.F.D.*); Bingley (*E.P.P.B.*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*); Huddersfield (*G.T.P.*); Meanwood near Leeds (*W.H.T.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Orthosia macilenta *Hüb.* Common in woods.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley (*N.F.D.*); Bingley (*E.P.P.B.*); Bradford (*J.W.C.*); Bramham (*J.Sm.*); Huddersfield ! (*G.T.P.*); Ilkley !! (*E.B., Zool.*, 1866); Pontefract (*B.H.*); Richmond (*J. Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Anchocelis rufina *L.* Also common in woods.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Bradford ! (*J.W.C.*); Bramham ! (*J.Sm.*); Huddersfield (*G.T.P.*); Ilkley (*E.B.*); Meanwood near Leeds (*W.H.T.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough !! (*Stainton's Manual*); Selby (*T.F.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Anchocelis pistacina *W.V.* Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley ! (*N.F.D.*); Bramham ! (*J.Sm.*); Garforth (*C.S.*); Huddersfield (*J.V.*); Meanwood near Leeds (*W.H.T.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*J.H.R.*); Sheffield (*W. Thomas*); Wakefield (*W.T.*).

Anchocelis lunosa *Haw.* Not generally common.

Beverley ! (*N.F.D.*); Huddersfield (*P.I.*); Richmond (*J. Sang*); Scarborough (*T. IV.*); Wakefield (*W.T.*); York, one specimen (*W.P.*).

Anchocelis litura *L.* Common everywhere.

Cerastis vaccinii *L.* Abundant everywhere, except perhaps on some of the exposed parts of the coast.

Cerastis spadicea *W.V.* Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley ! (*N.F.D.*); Bramham ! (*J.Sm.*); Brantingham (*R. C. Kingston, Zool., Jan., 1866*); Huddersfield (*S.L.M. and J.V.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*T. IV.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Scopelosoma satellitia *L.* Generally common.

Barnsley (*J.H.*); Beverley ! (*N.F.D.*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*); Doncaster (*J. Hawley*); Huddersfield (*G.T.P.*); Meanwood near Leeds ! (*W.H.T.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*J. Birks*).

Xanthia citrargo *L.* Not uncommon in some districts among limes.

Barnsley (*J.H.*); Bramham ! (*J.Sm.*); Bretton ! (*G.T.P.*); Farnley near Leeds (*C.S.*); Huddersfield (*J.V.*); Pontefract (*B.H.*); Richmond (*G.P.H.*); Rotherham (*W. B. Pryer, Ent. W. Int., June 8, 1861*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*Stainton's Manual*).

Xanthia cerago *W.V.* Common among sallow.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley, "common, but rather small in size" (*N.F.D.*); Bingley (*E.P.P.B.*); Bramham ! (*J.Sm.*); Huddersfield (*G.T.P.*); Meanwood near Leeds ! (*W.H.T.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough !! (*T.IV.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

The variety *flavescens* *Esp.* occurs at Huddersfield, and probably wherever the ordinary form is found.

Xanthia silago *Hüb.* Common; the larvæ of this and *X. cerago* may often be beaten freely out of sallows in spring, or collected in the catkins.

Adel ! (*W.H.T.*); Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley (*N.F.D.*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*); Huddersfield ! (*G.T.P.*); Meanwood near Leeds (*W.H.T.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*T.IV.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Xanthia aurago *W.V.* A great rarity.

Sheffield (*J. Batty and A.D.*); taken at Sheffield in 1859 by Mr. W. Laycock (*Ent. Ann., 1860, p. 139*); "Has occurred at York" (*Stainton's Manual*).

Xanthia gilvago *Esp.* This species was first added to the British list from specimens taken at Doncaster by Mr. Hugh Reid, and is still to be taken there as freely probably as in any other locality in Britain. The elm hedges on the way to a near Edlington Wood are well known collecting grounds for it.

Beverley (*N.F.D.*); Bramham (*J.Sm.*); Doncaster ! (*J.H.*, *G.T.P.*, *W.P.*, and others); Hull (*J.W.Boulton*); Ledstone and Micklefield (*C.S.*); Pontefract (*B.H.*); Richmond (*G.P.H.* and *J. Sang*); Rotherham (*Stainton's Manual*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*W.P.* and *T. Wilson*).

Xanthia ferruginea *W.V.* Generally common.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley ! (*N.F.D.*); Bradford ! (*J.W.C.*); Bramham ! (*J.Sm.*); Huddersfield (*G.T.P.*); Ilkley !! (*E.B.*); Leeds ! (*W.H.T.*); Mirfield (*G.T.P.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Cirrædia xerampelina *Hüb.* Local, but usually not uncommon where it occurs.

Bedale (*W. Culverwell*, *Ent. W. Int.*, 1859, p. 4); Beverley ! (*N.F.D.*); Bramham (*C.S.*); Doncaster (*W.W.*); Newton Kyme (*C.S.*); Pontefract, not uncommon (*B.H.*); Richmond (*G.P.H.* and *J. Sang*); Scarborough, not uncommon (*T.W.*); Sheffield (*A.D.*); Wetherby ! (*C.S.*); York (*W.P.*).

Mr. Prest says the beautiful variety **unicolor** occurs at York.

Tethea subtusa *W.V.* The larvæ may sometimes be collected freely from poplars, but the imago is seldom seen at large.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*G.T.P.*); Bramham (*J.Sm.*); Huddersfield ! (*G.T.P.*); Richmond (*G.P.H.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Tethea retusa *L.* We have only one locality for this local species. Askham Bog (*W.P.*).

Euperia fulvago *W.V.* Very rare. Mr. J. Harrison took one on Sept. 8th, 1875, at Barnsley; and Mr. W. Prest took one at Doncaster in 1881.

Cosmia trapezina *L.* Abundant everywhere, and very variable in the West Riding.

Cosmia diffinis *L.* Scarce.

Doncaster (*F.O.M., British Moths*, 1871, ii. 177);
Sheffield (*A.D.*); Wakefield (*W.T.*).

Cosmia affinis *L.* Barnsley (*J.H.*); Beverley (*N.F.D.*);
Doncaster (*F.O.M., British Moths*, 1871, ii. 177); Sheffield
(*A.D.*); Wakefield (*W.T.*); York (*R.C.*).

Eremobia ochroleuca *W.V.* Rare.

Huddersfield (*J.V.*); York, "in 1869 on flowers of
Senecio jacobæa" (*T. Wilson, Ent. Mo. Mag., Dec.* 1870,
vii. 161).

Dianthæcia carpophaga *Bork.* Larvæ feed in seed capsules of *Silene inflata*.

Leeds (*E.B.*); Pontefract (*B.H.*); Redcar (*J. Sang*);
Richmond (*J. Sang*); Rotherham (*W. Rodgers*); Scarborough!
(*T. W.*); Sheffield (*A.D.*); York! (*T. Wilson*).

Dianthæcia capsincola *W.V.* Rather common.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley!
(*N.F.D.*); Bradford (*J.W.C.*); Flamborough Head
(*E.H.*); Huddersfield (*G.T.P.*); Leeds (*E.B.*); Mean-
wood (*C.S.*); Pontefract (*B.H.*); Redcar (*J. Sang*);
Richmond (*J. Sang*); Rotherham (*W. Rodgers*); Sheffield
(*A.D.*); Wakefield (*W.T.*).

Dianthæcia cucubali *W.V.* Larvæ in seed capsules of
Silene inflata.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Hudders-
field (*G.T.P.*); Pontefract (*B.H.*); Richmond (*J. Sang*);
Rotherham (*W. Rodgers, Ent. W. Int., Aug.* 21, 1858);
Scarborough (*T. W.*); Sheffield (*A.D.*); Wakefield (*W.T.*);
York, larvæ in seed capsules of *Lychnis flos-cuculi* (*T.*
Wilson).

Dianthæcia conspersa *W.V.* Very local.

Scarborough, not uncommon (*T.W.*); York (*Stainton's Manual*).

Hecatera serena *W.V.* Mr. Dobrée says it occurs at Beverley, but is scarce. We have no other recorded locality.

Polia chi *L.* Abundant in the West Riding, and common no doubt everywhere.

The variety **olivacea** *Steph.* occurs at Bradford (*J.W.C.*); Huddersfield (*G.T.P.*); Richmond (*G.P.H.*); and probably wherever the species occurs in plenty.

Polia flavocincta *L.* Widely distributed and common.

Adel (*W.H.T.*); Askham Bog (*W.P.*); Beverley ! (*N.F.D.*); Bradford (*J.W.C.*); Huddersfield !! (*G.T.P.*); Meanwood near Leeds (*W.H.T.*); Richmond (*J. Sang*); Scarborough !! (*Stainton's Manual*); Wakefield (*W.T.*).

The form found at Huddersfield, where the species is abundant, is the dark variety **meridionalis** *Boisd.*, and the type of the species does not seem to occur at all. No doubt the variety represents the species in the south West Riding generally, but whether it extends to other parts of the county I do not know (See *Naturalist*, *March*, 1881, p. 122). I have a very beautiful variety, almost black, which I took in my garden at sugar, September 17th, 1879 (*G.T.P.*).

Dasypolia Templi *Thunb.* Our county has always been considered head-quarters for this moth, and by far the majority of cabinets in the country have been supplied with specimens from the south West Riding, in some parts of which it is often very common.

Beverley, in 1881 (*N.F.D.*); Bingley, in 1882 (*E.P.P.B.*); Bradford (*J. Hirst*); Denby !! (*G.T.P.*); Doncaster (*Hugh Reid*, *Zool.*, 1845, iii. 1199); Elland (*G.T.P.*); Huddersfield ! (*G.T.P.*); Keighley (*C.S.*);

Penistone (*J.H.*); Pontefract (*B.H.*); Scarborough ! (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*Stainton's Manual*).

Epunda lutulenta *W.V.* Very rare.

York (*W.P.*, *Ent. Mo. Mag.*, April, 1871, vii. 257).

Epunda nigra *Haw.* The Rev. F. O. Morris gives Stockton Forest and Sutton-on-Derwent near York as localities, but both require confirmation.

Epunda viminalis *Fab.* Rather common.

The very dark form, variety **obscurior** *Haw.*, seems to predominate all through the county. I have bred it from Huddersfield larvæ almost perfectly black.

Askham Bog (*W.P.*); Bishop's Wood (*J.W.T.*); Bramham ! (*J.Sm.*); Huddersfield ! (*G.T.P.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Epunda lichenea *Hüb.* Seems only to occur at Scarborough, where it is common (*T.W.*).

Miselia oxyacanthæ *L.* Common everywhere.

The dark form, variety **capucina** *Mill.*, is common at Huddersfield, and probably always occurs in more or less plenty with the ordinary type.

Agriopis aprilina *L.* Barnsley (*J.H.*); Beverley ! (*N.F.D.*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*); Edlington Wood (*G.T.P.*); Horsforth (*J.P.*); Huddersfield (*P.I.*); Ilkley !! (*E.B.*, *Zool.*, 1866); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough ! (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*J. Birks*).

Phlogophora meticulosa *L.* Plentiful everywhere.

Euplexia lucipara *L.* Common everywhere.

Aplecta herbida *W.V.* Beverley ! (*N.F.D.*); Bradford (*W. Hodgson*); Bramham (*J.Sm.*); Doncaster (*W.W.*); Edlington Wood (*J.H.*); Huddersfield (*S.L.M.* and

J.V.); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough ! (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); Wharnccliffe Woods ! (*S.L.M.*); York, common in some seasons (*W.P.*).

Aplecta occulta *L.* Generally scarce, but in 1880 occurred all over the county, in some localities in plenty. Both pale and dark forms occur.

Barnsley (*J.H.*); Beverley (*N.F.D.*); Bradford (*J.W.C.*); Doncaster (*W.W.*); Huddersfield (*G.T.P.*); Hull, thirteen in 1880 (*N.F.D.*); Langwith near York (*F.O.M.*, *British Moths*, 1871, iii. 13); Sheffield, in old list (*A.D.*); Whitby, in 1880 (*C. S. Snell*); York, abundant in 1880, scarce previously (*W.P.*).

Aplecta nebulosa *Tr.* Not uncommon.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley (*N.F.D.*); Bradford ! (*J.W.C.*); Bramham (*J.Sm.*); Edlington Wood (*J.H.*); Flamborough Head (*E.H.*); Huddersfield (*J.V.*); Meanwood ! (*W.H.T.*); Pontefract (*B.H.*); Scarborough !! (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); Wharnccliffe Woods ! (*S.L.M.*).

Aplecta tincta *Bork.* Recorded from Edlington, Doncaster, by Mr. W. Warren. We have no other locality.

Aplecta advena *W.V.* Very rare.

Askham Bog (*W.P.*); Sheffield (*A.D.*).

Hadena adusta *Esp.* Askham Bog (*W.P.*); Bingley (*J. A. Butterfield*); Edlington, Doncaster (*J.H.*); Huddersfield, not uncommon (*G.T.P.*); Leeds (*E.B.*); Meanwood (*W.H.T.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Hadena protea *W.V.* Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley (*N.F.D.*); Bingley (*E.P.P.B.*); Bradford ! (*J.W.C.*); Bramham ! (*J.Sm.*); Huddersfield (*J.V.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Hadena glauca *Kleem.* Adel Moors near Leeds (*W.H.T.*); Bingley (*E.P.P.B.*); Bradford ! (*J.W.C.*); Halifax (*T. Mellor*); Huddersfield (*G.T.P.*); Ilkley (*E.B.*); Penistone (*J.H.*); Richmond (*J. Sang*); Saddleworth (*R. S. Edelston*); Scarborough (*T.W.*); Sheffield (*A.D.* and *W.W.*).

Hadena dentina *W.V.* Common, no doubt everywhere.

Hadena chenopodii *W.V.* Only recorded from Sheffield (*A.D.*); and Wakefield (*W.T.*).

Hadena suasa *W.V.* Rare, but rather widely distributed.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Doncaster, "near the river side" (*A. J. Evans, Zool.*, 1846, iv. 1227); Huddersfield (*P.I.*); Redcar (*J. Sang*); Sheffield (*Ent. Mo. Mag.*, Nov., 1866, iii. 136).

Hadena oleracea *L.* Abundant everywhere.

Hadena pisi *L.* Generally common, but Mr. Dobrée says "it does not occur in Holderness."

Adel Moors ! (*W.H.T.*); Askham Bog (*W.P.*); Barnsley (*J.H.*); Bradford ! (*J.W.C.*); Bramham ; (*J.Sm.*); Huddersfield (*G.T.P.*); Ilkley (*A. Denny*); Leeds !! (*E.B.*); Pontefract (*B.H.*); Redcar (*J. Sang*); Richmond (*J. Sang*); Scarborough (*J.H.R.*); Sheffield (*A.D.*); Thorne (*W.P.*); Wakefield (*W.P.*).

Hadena thalassina *Naturf.* Very plentiful everywhere.

Hadena contigua *W.V.* Mr. R. Cook records the species as occurring at York, but I know no other locality.

Hadena genistæ *Bork.* Recorded from Bramham (*J.Sm.*); and York (*R.C.*, *Entom.*, Feb., 1842).

Hadena rectilinea *Esp.* Scarce.

Huddersfield (*J.V.*); Sheffield (*A.D.*).

Xylocampa lithoriza *Bork.* Askham Bog (*W.P.*); Beverley! (*N.F.D.*); Bishop's Wood, in March (*C.S.*); Doncaster (*W.W.*); Huddersfield (*J.V.*); Richmond (*J. Sang*); Scarborough (*T.W.*); York! (*P.I.*).

Cloantha solidaginis *Hüb.* Found on fir trees on moors, or in exposed woods having an undergrowth of bilberry, &c.

Askham Bog, one specimen at sugar (*W.P.*); Halifax! (*G.T.P.*); Huddersfield (*J.V.*); Saddleworth (*R. S. Edleston, Zool.*, 1844, ii. 734); Scarborough (*T.W.*); Sheffield (*A.D.*).

Calocampa vetusta *Hüb.* Bradford (*J.W.C.*); Huddersfield (*J.V.*); Pontefract (*B.H.*); Scarborough (*T.W.*); Sheffield (*A.D.*); Tankersley Park (*Rev. J. Johnson, Zool.*, 1847, v. 1658); York (*W.P.*).

Calocampa exoleta *L.* Generally common.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley! (*N.F.D.*); Bradford (*J.W.C.*); Bramham! (*J.Sm.*); Doncaster (*J. Hawley*); Huddersfield! (*G.T.P.*); Ilkley (*E.B.*); Leeds!! (*W.H.T.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough!! (*Stainton's Manual*); Sheffield (*A.D.*); Wakefield (*W.T.*); York! (*T. Wilson*).

Xylina conformis *W.V. = furcifera* *Hufn.* In the Entomologists' Monthly Magazine, vol. v., p. 278, the late Mr. T. H. Allis recorded the capture of a specimen at Halifax "many years since." It was for a long time in his own collection, and afterwards in that of the late Mr. Thomas Wilkinson of Scarborough.

Xylina rhizolitha *W.V.* Not common.

Leeds, occasionally (*W.H.T.*); Pontefract (*B.H.*); York (*Stainton's Manual*).

Cucullia verbasci *L.* Barnsley (*J.H.*); Beverley, sometimes very common (*N.F.D.*); Jackdaw Crag near Tadcaster (*J.T.C., Proc. Yorksh. Nat. Club, July 1, 1863,*

p. 152); Market Weighton (*C.S.*); Selby (*T.F.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Cucullia chamomillæ *W.V.* Beverley (*N.F.D.*); Leeds, one at Meanwood, beginning of May, 1877 (*A. Denny*); Pontefract (*B.H.*); Wakefield (*W.T.*); York (*T. Wilson*, *Ent. Mo. Mag.*, Dec., 1870).

Cucullia umbratica *L.* Widely distributed.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley ! (*N.F.D.*); Bramham ! (*J.Sm.*); Huddersfield (*G.T.P.*); Oulton ! (*J.P.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Heliothis marginata *Fab.* Common among *Ononis arvensis* on the coast.

In Holderness ! (*N.F.D.*); Redcar (*J. Sang*); Richmond (*J. Sang*); Scarborough !! (*G.T.P.*, *J.H.R.*, and *T.W.*).

Heliothis armigera *Hüb.* A fine female example was taken at Scarborough by Mr. W. Simmons in 1866 (*Ent. Ann.*, 1867, *p.* 153); and Mr. H. Sims shewed me one he took at Haw Park, Wakefield, in October, 1871 (*Entom.* vi. 85). I know of no other.

Heliothis dipsacea *L.* Recorded as occurring at York by Mr. R. Cook (*Entom.*, Feb., 1842); also taken at York in 1859 (*R. Anderson*, *Ent. W. Int.*, Jan. 21, 1860, *p.* 134).

Heliothis scutosa *Fab.* "On Strensall Common, near York" (*F.O.M.*, *British Moths*, 1871, iii. 38). This requires confirmation.

Anarta myrtili *L.* Abundant on heaths, flying in the hot sunshine.

Adel Moors !! (*W.H.T.*); Barnsley (*J.H.*); Beverley ! (*N.F.D.*); Blubberhouses (*Lord Walsingham*); Bradford ! (*J.W.C.*); Halifax !! (*G.T.P.*); Huddersfield !! (*G.T.P.*); Ilkley (*A. Denny*); Otley Chevin (*J.W.T.*);

Pateley Moors (*A. Denny*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough !! (*J.H.R.*); Selby (*T.F.*); Sheffield (*A.D.*); Thorne Waste (*W.P.*); York (*C. Helstrip*).

Heliodes arbuti *Fab.* Barnsley (*J.H.*); Beverley ! (*N.F.D.*); Bramham (*W.H.T.*); Doncaster (*W.W.*); Harrogate (*J. Sang*); Huddersfield (*J.V.*); Pontefract (*B.H.*); Potternewton near Leeds (*W.H.T.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York ! (*Stainton's Manual*).

Hydrelia unca *L.* Known only to occur in Yorkshire at Askham Bog, York, where it "flies on sunny afternoons, and just before dusk" (*W.P.*).

Brephos parthenias *L.* Beverley, in Houghton Woods (*N.F.D., Nat., April, 1882, p. 151*); Bramham ! (*J.Sm.*); Doncaster (*W.W.*); Huddersfield (*J.V.*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wharnccliffe Woods (*T. W. Rose*); York ! (*T.H.A. and R.C.*).

Brephos notha *Hüb.* I fancy the preceding species is sometimes mistaken for this.

Bramham ! (*J.Sm.*); Sheffield (*A.D.*); Scarborough (*T.W.*); Sutton-on-Derwent near York (*Rev. G. Rudston Kead, Ent. W. Int., 1858, p. 36*); Wakefield (*W.T.*); York (*T.H.A. and R.C.*).

Abrostola urticæ *Hüb.* Common among stinging nettle.

Barnsley (*J.H.*); Beverley (*N.F.D.*); Bradford (*J.W.C.*); Bramham (*J.Sm.*); Flamborough Head (*E.H.*); Huddersfield ! (*G.T.P.*); Ilkley (*W.E.C.*); Leeds (*W.H.T.*); Pateley Bridge (*A. Denny*); Pontefract (*B.H.*); Richmond (*G.P.H.*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); Swillington (*J.W.T.*); Wakefield (*W.T.*); York (*T.H.A.*).

Abrostola triplasia *L.* Common among hop growing in gardens, &c.

Barnsley (*J.H.*); Bradford ! (*J.W.C.*); Bramham (*J.Sm.*); Hambleton (*G.T.*); Huddersfield ! (*G.T.P.*); Leeds !! (*W.H.T.*); Pontefract (*B.H.*); Rastrick (*G.T.P.*); Richmond (*G.P.H.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*T. Wilson*).

Plusia chrysis *L.* Generally very common among stinging nettles.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley ! (*N.F.D.*); Bradford ! (*J.W.C.*); Bramham ! (*J.Sm.*); Doncaster (*G.T.P.*); Flamborough Head (*E.H.*); Goole !! (*John Harrison*); Hambleton ! (*G.T.P.*); Huddersfield (*G.T.P.*); Ledsham (*C.S.*); Leeds ! (*W.H.T.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Rotherham (*W. Thomas*); Scarborough (*J.H.R.*); Sheffield (*A.D.*); South Milford (*G.T.P.*); Wakefield (*W.T.*); Weeton (*W.D.R.*).

Plusia bractea *W.V.* York (*Stainton's Manual*); Pateley Bridge (*R.C., Newman's Entom., Oct., 1842*); possibly these are the York specimens of Stainton's Manual. As this species occurs outside the county at "The Brushes," Staleybridge, I feel sure it ought to be taken oftener in similar localities within our boundary.

Plusia festucae *L.* Not common. The larva feeds on the yellow flag (*Iris pseud-acorus*) in marshy ground.

Askham Bog (*W.P.*); Beverley (*N.F.D.*); Goole (*J. Harrison*); Huddersfield, very rare (*P.I.*); Hunslet, occurs in Middleton Wood, but is not common (*J.P.*).

Plusia iota *L.* Generally common.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley ! (*N.F.D.*); Bradford ! (*J.W.C.*); Bramham ! (*J.Sm.*); Driffild (*L. B. Ross*); Huddersfield ! (*G.T.P.*); Ilkley (*A. Denny*); Meanwood ! (*W.H.T.*); Pateley Bridge

(*A. Denny*); Pontefract (*B.H.*); Richmond (*J. Sang*); Rotherham (*W. Thomas*); Rothwell (*J.W.T.*); Scarborough (*Stainton's Manual*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Plusia V-aureum *Gn.* As widely distributed and I think still commoner than *P. iota*.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley ! (*N.F.D.*); Bradford ! (*J.W.C.*); Bramham (*J.Sm.*); Flamborough Head (*E.H.*); Grassington (*G.T.P.*); Huddersfield ! (*G.T.P.*); Ilkley (*A. Denny*); Leeds (*E.B.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Rotherham (*W. Thomas*); Scarborough (*J.H.R.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*T. Wilson*).

Plusia gamma *L.* Abundant everywhere.

Plusia interrogationis *Hüb.* Occurs on the moors, the larvæ feeding on ling and bilberry.

Driffeld (*G. R. Dawson, Entom., vii. 23*); Harrogate (*J. Sang*); Hebden Bridge (*Tom Mellor*); Huddersfield (*J.V.*); "North Yorkshire Hills" (*N.F.D.*); Redcar (*G. Brook, F.L.S.*); Richmond (*G.P.H.* and *J. Sang*); Scarborough (*J.H.R.*); Sheffield (*A.D.*).

Gonoptera libatrix *L.* Generally common, but rare in some parts of the south West Riding. I have only seen two or three specimens in the Huddersfield district, though others have been taken there.

Askern (*S.L.M.*); Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley ! (*N.F.D.*); Bishop's Wood (*G.T.P.*); Borough-bridge (*W.P.*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*); Goole (*J. Harrison*); Huddersfield (*G.T.P.*); Hunslet ! (*J.P.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Selby (*K.R.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Amphipyra pyramidea *L.* One would expect this species to be plentiful in our larger oak and birch woods, but it seems to be not only local but seldom very common where it does occur.

Barnsley, rare (*J.H.*); Cusworth near Doncaster (*W.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*Stainton's Manual*).

Amphipyra tragopogonis *L.* Common probably everywhere.

Mania typica *L.* Abundant no doubt everywhere.

Mania maura *L.* Not uncommon among old poplars and willows.

Adel Moor! (*W.H.T.*); Askham Bog (*W.P.*); Barnsley (*J.H.*); Beverley! (*N.F.D.*); Bradford (*J.W.C.*); Bramham! (*J.Sm.*); Huddersfield! (*G.T.P.*); Ilkley (*A. Denny*); Leeds! (*J.G.*); Pannal! (*W.D.R.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*G.T.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Toxocampa pastinum *Tr.* Local, but usually plentiful where it occurs. Its beautiful larvæ may readily be found about the end of May feeding on *Vicia* at night, or in the daytime coiled up among the moss, &c., above the roots of the eaten plants.

Askham Bog!! (*W.P.*); Bramham (*J.Sm.* and *J.W.T.*); Fairburn (*C.S.*); Maltby Wood near Sheffield, "sixty in one day" (*Wm. Laycock, Ent. W. Int.*, 1858, p. 133); Pontefract (*B.H.*); Scarborough! (*G.T.P.* and *J.H.R.*); Sheffield! (*A.D.* and others).

Stilbia anomala *Haw.* I have only seen one Yorkshire specimen; it was taken by Mr. J. W. Carter at Bradford on August 9th, 1877 (*G.T.P.*).

Catocala fraxini *L.* I am very glad to be able to record the occurrence of four specimens of this magnificent and rare species in our county. Dr. White took a fine speci-

men in his own garden near Barnsley on September 6th, 1880; Mr. T. Wilkinson took one at Scarborough in September, 1859, which I have seen; Mr. Jackson shewed me a beautiful example taken at rest on a tree in Stoneycliffe Wood, Middlestown, near Wakefield, on August 12th, 1875; and one is recorded from Hull in 1858 by Mr. James Young (*Ent. W. Int.*, p. 203).

Catocala nupta L. This species, so common in many parts of England, is in our own county apparently as rare as is *C. fraxini*. I only know of one well authenticated specimen: it was taken by Mr. George Tyers of Leeds, "under the coping stone of the wall of Oliver's Mount School, on Aug. 24th, 1876."

Euclidia mi L. Widely distributed, but seldom very common.

Askham Bog (*W.P.*); Barnsley (*J.H.*); Bishop's Wood (*G.T.P.*); Bramham! (*J.Sm.*); Doncaster (*G. Tindall*); Huddersfield (*J.V.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); Wentbridge (*J.W.T.*).

Euclidia glyphica L. Askham Bog (*W.P.*); Barnsley (*J.H.*); Bramham! (*J.Sm.*); Doncaster (*W.W.*); Flamborough Head (*E.H.*); Huddersfield (*J.V.*); Pontefract (*B.H.*); Richmond (*J. Sang*); Roche Abbey (*W.H. Smith*, *Ent. W. Int.*, June 12, 1858); Scarborough (*T.W.*); Sheffield (*A.D.*); Thorner (*G.T.*); Wakefield (*W.T.*).

Phytometra ænea *W.V.* Adel Moor!! (*W.H.T.*); Bramham! (*J.Sm.*); Huddersfield (*J.V.*); Maltby Common (*J.H.*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*W.T.*); near York (*W.P.*).

DELTOIDES.

Hypena proboscidalis L. Abundant nearly all over the county, but least common in the south West Riding.

Hypena rostralis L. Sheffield (*A.D.*).

Hypenodes albistrigalis Haw. Scarborough (*T. IV.*).

Hypenodes costæstrigalis Steph. Askham Bog (*W.P.*); Harrogate (*J. Sang*); Scarborough (*T. IV.*).

Rivula sericealis W.V. York (*R.C.*).

Herminia barbalis L. Wakefield (*W.T.*); York (*Stainton's Manual*).

Herminia tarsipennalis Tr. Not uncommon.

Bramham ! (*J.Sm.*); Huddersfield (*P.I.*); Scarborough, "on wild raspberry" (*T. IV.*); Sheffield (*A.D.*); York (*Stainton's Manual*).

Herminia grisealis W.V. Generally common.

Askham Bog (*W.P.*); Bishop's Wood (*G.T.P.*); Bramham ! (*J.Sm.*); Camblesforth (*John Harrison*); Edlington Wood (*J.H.*); Huddersfield (*G.T.P.*); Meanwood (*W.H.T.*); Richmond (*J. Sang*); Sheffield (*A.D.*); Thorne (*W.W.*); Wakefield (*W.T.*).

AVENTIÆ.

Aventia flexula Fab. We have two localities for this peculiar lichen feeder.

Scarborough (*T. IV.*); York (*R.C.*, *Entom.*, April, 1842).

PYRALIDES.

Pyralis fimbrialis W.V. York (*R.C.*, also *J.T.C.*, *Ent. W. Int.*, Feb. 16, 1861).

Pyralis farinalis *L.* Abundant, probably everywhere.

Bradford (*J. W.C.*); Bramham ! (*J.Sm.*); Huddersfield ! (*G.T.P.*); Leeds ! (*W.H.T.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*R.C.*).

Pyralis glaucinalis *L.* Askham Bog (*W.P.*); Scarborough (*T.W.*); Wakefield (*W.T.*).

Aglossa pinguinalis *L.* Common, probably everywhere.
The larva feeds on chaff and straw.

Bradford ! (*J. W.C.*); Bramham (*J.Sm.*); Huddersfield (*G.T.P.*); Leeds (*W.H.T.*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*R.C.*).

Aglossa cuprealis *Hüb.* Recorded from Huddersfield, but I think in error (*G.T.P.*). Its larva feeds on chaff and old straw in stable corners, &c.

Cledeobia angustalis *W.V.* "In a meadow near Maltby Woods" (*J. Batty, Ent. W. Int., June 27, 1857*).

Pyrausta punicealis *W.V.* The larva feeds on *Nepeta cataria*.

Bramham ! (*J.Sm.*); Huddersfield (*P.I.*); Richmond (*J. Sang*); Scarborough ! (*J.H.R.*); Sheffield (*A.D.*); York (*Stainton's Manual*).

Pyrausta purpuralis *L.* Bramham ! (*J.Sm.*); Huddersfield (*J.V.*); Richmond (*J. Sang*); Sheffield (*A.D.*); Wakefield (*W.T.*); York (*R.C.*).

Pyrausta ostrinalis *Hüb.* Huddersfield (*P.I.*); Richmond (*J. Sang*); Scarborough (*T.W.*); York (*R.C.*).

Herbula cespitalis *W.V.* Bramham ! (*J.Sm.*); Huddersfield (*J.V.*); Richmond (*J. Sang*); Sheffield (*A.D.*).

Ennychia cingulalis *L.* Richmond (*J. Sang*).

Ennychia octomaculalis *L.* This pretty sun-loving species is not uncommon at Hebden Bridge (*G.T.P.*). Mr. Varley used to take it at Huddersfield not uncommonly,

but I have never seen it there, and I fear it is now extinct in the locality. The larva feeds on the golden rod (*Solidago virgaurea*).

Stenia punctalis *W.V.* Sheffield (*A.D.*).

Cataclysta lemnalis *L.* Askham Bog (*W.P.*); Bramham (*J.Sm.*); Huddersfield (*J.V.*); Wakefield (*W.T.*).

Paraponyx stratiotalis *L.* Askham Bog (*W.P.*); Bradford, one at Frizinghall in 1882 (*J.W.C.*); Scarborough, not uncommon (*T.W.*); Sheffield (*A.D.*).

Hydrocampa nymphæalis *L.* Common in suitable localities.

Askham Bog (*W.P.*); Bradford !! (*J.W.C.*); Bramham ! (*J.Sm.*); Goole (*J. Harrison*); Huddersfield (*G.T.P.*); Killingbeck near Leeds (*J.W.T.*); Scarborough (*J. Harrison*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Hydrocampa stagnalis *Don.* The larva feeds on *Sparanium simplex*.

Askham Bog (*W.P.*); Bramham ! (*J.Sm.*); Goole (*J. Harrison*); Huddersfield (*J.V.*); Scarborough (*J. Harrison*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Acentropus niveus *Ol.* Has occurred near York (*Ent. W. Int.*, vi. 171). The larva feeds on *Potamogeton crispus*.

Botys pandalis *Hüb.* The larva will eat *Solidago virgaurea*, *Origanum vulgare*, and *Teucrium scorodonia*.

Sheffield (*A.D.*); York (*Stainton's Manual*).

Botys verticalis *W.V.* Among stinging nettle.

Bingley (*J.W.C.*); Bishop's Wood (*W.P.*); Goole (*J. Harrison*); Huddersfield (*G.T.P.*); Wadsley Bridge near Sheffield (*A.D.*); Wakefield (*W.T.*); York (*R.C.*).

Botys fuscalis *W.V.* The larva feeds on *Melampyrum pratense* and *M. cristatum*.

Askham Bog (*W.P.*); Blubberhouses (*Lord Walsingham*); Bradford (*J.W.C.*); Harrogate (*J. Sang*); Huddersfield (*Hobkirk's History of Huddersfield*); Richmond (*J. Sang*); Sheffield (*A.D.*).

Botys terrealis *Tr.* The larva feeds on the golden-rod (*Solidago virgaurea*).

Scarborough (*T.W.*).

Botys urticalis *L.* Among stinging nettles.

Askham Bog (*W.P.*); Bradford ! (*J.W.C.*); Goole (*J. Harrison*); Huddersfield, not common (*G.T.P.*); Leeds ! (*W.H.T.*); Pannal ! (*W.D.R.*); Richmond (*J. Sang*); Selby (*K.R.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Ebulea crocealis *Tr.* The larva feeds on fleabane (*Inula dysenterica*).

Doncaster ! (*G.T.P.*); Flamborough Head (*E.H.*); Redcar (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*).

Ebulea verbascalis *W.V.* The larva feeds on *Teucrium scorodonia*.

Only recorded from Sheffield (*A.D.*).

Ebulea sambucalis *W.V.* Moderately common, sometimes abundant. I once saw an elder tree in my father's garden, the lower branches of which were fairly stripped by the larvæ.

Askham Bog (*W.P.*); Bradford (*J.W.C.*); Goole (*J. Harrison*); Halifax (*G.T.P.*); Huddersfield ! (*G.T.P.*); Leeds !! (*W.H.T.*); Sheffield (*A.D.*); Wakefield (*W.T.*).

Pionea forficalis *L.* Abundant in kitchen gardens, &c., everywhere.

Spilodes sticticalis *L.* Local and apparently not so common as formerly.

Bramham (*J.Sm.*); Halifax (*Stainton's Manual*); Huddersfield, in August, 1847 (*P.I.*); Redcar (*J. Sang*); Scarborough, formerly abundant (*T.W.*); York, in 1879 (*T. Wilson*).

Scopula lutealis *Haw.* Abundant, probably everywhere.

I have found the larvæ freely at Huddersfield, feeding on the leaves on the lower branches of bramble (*Rubus*), also on *Plantago lanceolata*, *Ranunculus*, *Rumex*, and other low plants.

Scopula olivalis *W.V.* Occurs everywhere and is abundant in most places. Least common in some parts of the south West Riding. The larva feeds on stinging nettle and other low plants.

Scopula prunalis *W.V.* Also occurs everywhere, and usually in abundance. The larva feeds on *Scorodonia*, *Stachys sylvatica*, *Lamium galeobdolon*, &c.

Scopula ferrugalis *Hüb.* Harrogate (*J. Sang*) ; Scarborough (*T.W.*).

Stenopteryx hybridalis *Hüb.* I have reared the larvæ on *Polygonum aviculare*, but the proper food plant is uncertain.

Askham Bog (*W.P.*) ; Flamborough Head (*E.H.*) ; Richmond (*J. Sang*) ; Sheffield (*A.D.*) ; Thorne Waste (*W.P.*) ; Wakefield (*W.T.*).

Scoparia ambigualis *Tr.* Abundant everywhere.

Scoparia conspicalis *Hodgk.* This species was only separated and named as distinct in 1881 by Mr. Hodgkinson, although that gentleman had been familiar with it at Windermere for some years. Mr. W. Prest had also been taking it for years, and this year (1882) collected it in plenty at Sandburn, York ; and on seeing some of Mr. Prest's specimens I at once recognized it as a species I had taken several years previously at Edlington Wood, near Doncaster, from which locality I had still a few good specimens in my duplicate boxes.

Scoparia basistrigalis *Knaggs.* On Bank holiday, August 4th, 1879, I and others found this fine and local species in the greatest profusion in Edlington Wood, near Doncaster.

A dozen or more were frequently seen on the trunk of a single tree. Since then it has been much scarcer, and this year (1882) I failed to find a single specimen. Mr. W. Prest has also taken it at Bishop's Wood near Selby, and at York.

Scoparia cembræ *Haw.* Widely distributed and common.

The form occurring at Huddersfield is the variety **Zelleri** *Wocke*, which still stands in some of our lists as a distinct species. The species used to fly in thousands in two rough fields adjoining my house at Highroyd, Huddersfield, but I believe they were all of this form except an occasional specimen of Dr. F. B. White's dark variety *scotica*. Whether the specimens taken in the other parts of the county are the typical *cembræ* I do not know, but it would be interesting to ascertain how far the variety extends.

Askham Bog (*W.P.*); Bradford (*J.W.C.*); Bramham ! (*J.Sm.*); Harrogate (*J. Sang*); Huddersfield !! (*G.T.P.*); Redcar (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*).

Scoparia pyralis *W.F.* Generally common.

Bramham (*J.Sm.*); Edlington Wood (*G.T.P.*); Harrogate (*J. Sang*); Huddersfield !! (*G.T.P.*); Richmond (*J. Sang*).

Scoparia muralis *Gn.* Widely distributed and often abundant. In the south West Riding the larvæ may be collected in profusion by stripping off the moss growing on old walls.

Bradford (*J.W.C.*); Huddersfield !! (*G.T.P.*); Richmond (*J. Sang*); Saddleworth !! (*G.T.P.*); Scarborough (*T.W.*); Sheffield (*A.D.*).

Scoparia lineolalis *Gn.* Doncaster (*Stainton's Manual*); Redcar (*J. Sang*).

Scoparia mercuralis *L.* Askham Bog (*W.P.*); Huddersfield (*S.L.M.*); Sheffield (*A.D.*).

Scoparia cratægalis *Hüb.* Askham Bog (*W.P.*); Bingley (*E.P.P.B.*); Bramham (*J.Sm.*); Edlington Wood (*G.T.P.*); Richmond (*J. Sang*); Sheffield (*A.D.*).

Scoparia resinalis *Haw.* Not common.

Scarborough, on ash trees (*T.W.*); Sheffield (*A.D.*).

Scoparia truncicolalis *Stainton.* Fairly common. I have reared the larvæ through on moss.

Grassington (*G.T.P.*); Huddersfield (*G.T.P.*); Scarborough (*T.W.*); Sheffield (*A.D.*); York !! (*W.P.*).

Scoparia coarctalis *Zell.* Huddersfield (*G.T.P.*); Redcar (*J. Sang*); Scarborough (*T.W.*).

Scoparia pallidulalis *Gn.* Only occurs I believe on marshy ground.

"On warm moist evenings this species is to be seen sporting in countless numbers in Askham Bog near York" (*W.P.*); Scarborough (*T.W.*).

CRAMBITES.

Crambus pratellus *L.* Common everywhere.

Crambus dumetellus *Hüb.* Recorded from York by Mr. Robt. Cook (*Newman's Entom.*, April, 1842); Blubberhouses (*Lord Walsingham*).

Crambus hamellus *Thunb.* Scarborough (*T.W.*).

Crambus pascuellus *L.* Rather common.

Askham Bog (*W.P.*); Bramham ! (*J.Sm.*); Redcar (*J. Sang*); Sheffield (*A.D.*); Thorne Waste near Goole !! (*G.T.P.*).

Crambus margaritellus *Hüb.* Local, but probably common where it occurs. I found it abundant on the damp parts only of Thorne Waste, whereas *C. pascuellus* only occurred on the dry parts.

Rombald's Moor near Bradford (*J.W.C.*); Thorne Waste near Goole !! (*G.T.P.*); York (*E.B.*).

Crambus pinetellus *L.* Sheffield (*A.D.*).

Crambus perlellus *Scop.* Askham Bog (*W.P.*); Richmond (*J. Sang*); Thorne Waste (*W.W.*).

Crambus Warringtonellus *Zell.* Occurs commonly on Thorne Waste (*W.P.* and *W.W.*); but we have no other locality as yet. I believe the northern specimens of this insect are simply a form of *C. perlellus*. Except in the New Forest I have never found the two species occurring separately; and in a field in the Isle of Man I found all the intermediate varieties between one form and the other. The New Forest specimens seem to me altogether darker and have a more irony appearance than any I have taken in the north, but even they may only be an isolated race of a form of *C. perlellus*.

Crambus selasellus *Hüb.* Askham Bog (*W.P.*); Bishop's Wood (*W.P.*); Scarborough (*T.W.*).

Crambus tristellus *W.V.* Abundant everywhere.

• *Crambus inquinatellus* *W.V.* Scarborough (*T.W.*); Stockton-on-the-Forest, and Sandburn, York (*W.P.*).

Crambus geniculellus *Haw.* Redcar (*J. Sang*).

Crambus culmellus *L.* Abundant everywhere.

Crambus hortuellus *Hüb.* Abundant everywhere.

Chilo phragmitellus *Hüb.* Askham Bog (*W.P.*); formerly abundant at Scarborough (*T.W.*).

Schœnobius forficellus *Thunb.* Askham Bog (*W.P.*); Huddersfield (*P.I.*).

Schœnobius gigantellus *W.V.* Recorded as having occurred at York by Mr. R. Cook (*Newman's Entom.*, April, 1842).

Anerastia lotella *Hüb.* A coast species.
Redcar (*J. Sang*).

Homæosoma nimbella *Dup.* Flamborough Head (*E.H.*); larvæ in seeds of yarrow, &c., at Scarborough (*T.IV.*).

Mr. Sang records the variety **saxicola** *Vaughan* from Redcar, and I think it probable that the form occurring in the two other localities is this variety.

Homæosoma nebulella *Hüb.* Not common. The larvæ feed in thistle heads in the autumn.

Flamborough Head (*E.H.*); Scarborough (*T.IV.*).

Ephestia elutella *Hüb.* Probably common in suitable places in all the larger towns. In a chicory warehouse at York Mr. G. C. Dennis obtained in one piece from the ceiling a tough compact web spun by thousands of larvæ, measuring between seven and eight feet in length, and four feet in width (see Transactions of Yorkshire Naturalists' Union, part i, 1877); Huddersfield (*G.T.P.*); York !! (*W.P.*).

Ephestia ficella *Dougl.* Leeds (*E.B.*); York (*W.P.*).

Ephestia pinguedinella *Gn.* Balby ! (*W.W.*); Sheffield (*A.D.*); York (*W.P.*).

Cryptoblabes bistriga *Haw.* A scarce species but has repeatedly been taken.

Doncaster (*W.W.*); Huddersfield (*P.I.*); York (*W.P.* and *T. Wilson*).

Plodia interpunctella *Hüb.* The larva feeds in warehouses on grain, malt, locust beans, &c.

York (*W.P.*).

Phycis betulella *Goetz.* The larvæ may be found on the upper side of birch leaves. at the end of May.

Bramham (*J.Sm.*); common in the Green Farm Wood, adjoining Sandal Beat, Doncaster (*G.T.P.* and *W.W.*); Sheffield (*A.D.*); York (*W.P.*).

Phycis carbonariella *Fisch.* Plentiful probably on all heaths, and very partial to the burnt charred parts. No species is more appropriately named than this, for the larva, imago, and habitat are all equally black.

Blubberhouses (*Lord Walsingham*); Flamborough Head (*E.H.*); Goole Moors (*J. Harrison*); Halifax !! (*G.T.P.*); Huddersfield !! (*G.T.P.*); Leeds (*E.B.*); Richmond (*J. Sang*); Saddleworth (*R. S. Edleston*); Scarborough (*T. IV.*); Sheffield (*A.D.*); Strensall Common, York ! (*IV.P.*); Thorne Waste ! (*G.T.P.*).

Phycis ornatella *IV.V.* Only recorded from one locality.

York (*IV. Simmons*).

Phycis abietella *IV.V.* Not uncommon at Scarborough (*T. IV.*); York (*IV.P.*).

Phycis roborella *IV.V.* Bishop's Wood ! (*IV.P.*); Bramham ! (*J.Sm.*); Doncaster ! (*IV. IV.*); York (*IV.P.*).

Pempelia palumbella *IV.V.* Sheffield (*A.D.*); York !! (*IV.P.*).

Rhodophæa consociella *Hüb.* Not generally common.

Rossington ! (*IV. IV.*); Scarborough (*T. IV.*); York (*T. Wilson*).

Rhodophæa advenella *Zinck.* Only recorded from Scarborough (*T. IV.*).

Rhodophæa tumidella *Zinck.* About oak trees.

Askham Bog and Sandburn, York (*IV.P.*); Bramham (*J.Sm.*); Doncaster ! (*IV. IV.*); Scarborough (*T. IV.*).

Oncocera ahenella *IV.V.* Huddersfield (*P.I.*); Stainton's Manual also gives "the West Riding of Yorkshire," probably referring to the above record, but I think the specimen must have got there accidentally somehow, as the locality is a most unlikely one for the species.

Melia sociella *L.* Goole (*G.T.P.*); Leeds (*E.B.*); Richmond (*J. Sang*); Sheffield (*A.D.*).

Melissoblaptēs cephalonica *Stainton.* This species was first described and introduced to science (*Ent. Ann.*, 1866, p. 147) from specimens bred from dried currants at York

by Mr. Hind in 1865. Since then it has been taken in London by Mr. C. G. Barrett (to whom I am indebted for my series of the species), but I know of no other captures (*G.T.P.*).

Galleria cerella *Gn.* The larva feeds in the comb in old bee-hives. Leeds (*E.B.*).

Meliphora alveariella *Gn.* Plentiful wherever old bee-hives are kept.

Huddersfield !! (*G.T.P.*); Leeds (*E.B.*); Sheffield (*A.D.*); York (*R.C.*).

TORTRICES.

Halias prasinana *L.* Generally common, but less so in the south West Riding than elsewhere.

Bingley (*E.P.P.B.*); Bishop's Wood (*W.D.R.*); Bramham ! (*J.Sm.*); Doncaster ! (*W.W.*); Edlington Wood ! (*G.T.P.*); Harrogate (*J. Sang*); Huddersfield (*G.T.P.*); Meanwood ! (*W.D.R.*); Richmond (*J. Sang*); Scarborough !! (*T.W.*); Sheffield (*A.D.*); York (*R.C.*).

Sarothripa revayana *W.V.* Scarce.

Scarborough (*T.W.*); near York (*J.T.C., Ent. Ann., 1867, p. 158*).

Tortrix pyrastrana *Hüb.=podana Scop.* Common everywhere, probably.

Tortrix cratægana *Hüb. = roborana Hüb.* A pretty species and not rare.

Bramham ! (*J.Sm.*); Doncaster (*W.W.*); Edlington Wood (*G.T.P.*); Huddersfield (*P.I.*); Sheffield (*A.D.*); York (*W.P., Ent. W. Int., Feb. 16, 1861*).

Tortrix xylostearia *L. ?* Common everywhere.

Tortrix sorbiana *Hüb.* Rather common.

Bishop's Wood (*W.P.*); Bramham ! (*J.Sm.*); Doncaster (*W.W.*); Huddersfield (*J.W.D.*); Sheffield (*A.D.*); York (*R.C.*).

Tortrix rosana *L.* Very common, no doubt everywhere.

Tortrix cinnamomeana *Tr.* Doncaster (*W.W.*); York (*W.P.*).

Tortrix heparana *W.V.* Common everywhere.

Tortrix ribeana *Hüb.* Also common everywhere.

Tortrix corylana *Hüb.* Generally common.

Bramham ! (*J.Sm.*); Edlington Wood ! (*G.T.P.*); Elland (*G.T.P.*); Harrogate (*J.Sang*); Huddersfield ! (*G.T.P.*); Sheffield (*A.D.*); York (*R.C.*).

Tortrix unifasciana *Dup.* Blubberhouses (*Lord Walsingham*); Doncaster (*W.W.*); Huddersfield (*G.T.P.*); Redcar (*J. Sang*); Sheffield (*A.D.*).

Tortrix costana *W.V.* Doncaster (*W.W.*); Huddersfield (*P.I.*); Sheffield (*A.D.*); York (*C. G. Barrett, Ent. Mo. Mag.*, 1873).

Tortrix viburnana *W.V.* Common on heaths, &c.

Blubberhouses (*Lord Walsingham*); Huddersfield (*P.I.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Thorne Waste !! (*G.T.P.*); York !! (*W.P.*).

Tortrix icterana *Fröl.* The larva feeds on *Plantago* and *Centaurea nigra*.

Blubberhouses (*Lord Walsingham*); Bramham ! (*J.Sm.*); Doncaster (*W.W.*); Flamborough Head (*E.H.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); Wakefield (*G.T.P.*).

Tortrix viridana *L.* Abundant everywhere.

Tortrix ministrana *L.* Common.

Bramham! (*J.Sm.*); Doncaster! (*W.W.*); Harrogate (*J.Sang*); Huddersfield! (*G.T.P.*); Richmond (*J.Sang*); Sheffield (*A.D.*); York (*R.C.*).

Tortrix adjunctana *Tr.=Forsterana Dup.?* Common.

Bramham! (*J.Sm.*); Huddersfield! (*G.T.P.*); Leeds (*C.S.*); Richmond (*J.Sang*); York (*R.C.*).

Tortrix Branderiana *L.* Taken at Sheffield by Mr. A. Doncaster, but as yet recorded from no other locality in the county.**Dichelia Grotiana** *Fab.* York (*R.C., Newman's Entom., April, 1842.*)**Amphysa Gerningana** *W.V.* Huddersfield (*G.C.B.M.*); Richmond (*J.Sang*); Scarborough (*T.W.*); Thorne (*W.W.*); York !! (*W.P.*).**Amphysa Walkerana** *Curt.* Huddersfield (*P.I.*).**Leptogramma literana** *L.* Bramham (*J.Sm.*); Doncaster (*W.W.*); Richmond (*J.Sang*); Scarborough! (*T.W.*); Sheffield (*A.D.*); Stockton-on-the-Forest, near York (*W.P.*); York (*R.C.*).**Leptogramma scabrana** *Fab.* York (*R.C.*).**Leptogramma boscana** *Fab.* Flamborough (*Rev. E. Horton, Ent. W. Int., 1858, p. 131.*)

This really is only a form of *L. Scabrana*.

Peronea sponsana *Fab.=favillaceana Hüb.* Common.

Bramham! (*J.Sm.*); Huddersfield, abundant in beech hedges bordering gardens, &c. (*G.T.P.*); Market Weighton !! (*W.P.*); Richmond (*J.Sang*); Sheffield (*A.D.*).

Peronea autumnana *Hüb.=rufana W.V.* Huddersfield (*P.I.*); Scarborough, abundant on willow and *Myrica gale* (*T.W.*); York (*R.C.*).

Peronea mixtana *Hüb.* Not uncommon on heaths.

Huddersfield (*P.I.*); Richmond (*J. Sang*); Scarborough, abundant on *Erica tetralix* and *E. cinerea* (*T.W.*); Sheffield (*A.D.*).

Peronea Schalleriana *L.* Common.

Blubberhouses (*Lord Walsingham*); Bramham ! (*J.Sm.*); Doncaster (*W.W.*); Edlington Wood (*G.T.P.*); Harrogate (*J. Sang*); Huddersfield (*P.I.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); York (*R.C.*).

Peronea comparana *Hüb.* Bishop's Wood (*W.P.*); Doncaster (*W.W.*); Harrogate (*J. Sang*); Richmond (*J. Sang*).

Peronea comariana *Zell.* Bramham (*J.Sm.*).

Peronea Caledoniana *Bent.* Blubberhouses (*Lord Walsingham*); Huddersfield (*J.W.D.*); Richmond (*J. Sang*); Sheffield (*A.D.*).

Peronea variegana *W.V.* An exceedingly variable species, abundant in hawthorn hedges everywhere.

Peronea cristana *W.V.* York (*R.C.*).

Peronea hastiana *L.* The larva feeds on willow, and *Myrica gale*.

Richmond (*J. Sang*); Scarborough (*T.W.*); Strensall Common (*P.I.*).

Peronea ferrugana *W.V.* Bramham ! (*J.Sm.*); Harrogate (*J. Sang*); Richmond (*J. Sang*); York (*R.C.*).

Peronea tristana *Hüb.* Bramham (*J.Sm.*); Huddersfield (*P.I.*); Strensall Common (*P.I.*).

Peronea aspersana *Hüb.* Feeds on *Spiræa filipendula*, &c.

Bramham ! (*J.Sm.*); Flamborough Head (*E.H.*); Harrogate (*J. Sang*); Richmond (*J. Sang*); Scarborough (*T.W.*); York (*R.C.*).

Teras caudana *Fab.* I have bred this singular species freely from poplar.

Bishop's Wood (*W.P.*); Bramham ! (*J.Sm.*); Doncaster (*W.W.*); Harrogate (*J. Sang*); Huddersfield ! (*G.T.P.*); Richmond (*J. Sang*); Sheffield (*A.D.*); York (*R.C.*).

Teras contaminana *Hüb.* Abundant among hawthorn everywhere.

Dictyopteryx Lœflingiana *L.* Common.

Bramham ! (*J.Sm.*); Doncaster (*W.W.*); Harrogate (*J. Sang*); Huddersfield (*G.C.B.M.*); Richmond (*J.Sang*); Sheffield (*A.D.*); York (*R.C.*).

Dictyopteryx Holmiana *L.* Generally common about hawthorn.

Bramham ! (*J.Sm.*); Doncaster (*W.W.*); Huddersfield (*P.I.*); Redcar (*J. Sang*); Sheffield (*A.D.*); York (*R.C.*).

Dictyopteryx Bergmanniana *L.* Abundant among rose bushes no doubt everywhere.

Dictyopteryx Forskaleana *L.* Common among maple.

Boroughbridge (*W.P.*); Bramham ! (*J.Sm.*); Hexthorpe (*W.W.*); Huddersfield (*P.I.*); Sheffield (*A.D.*); York (*R.C.*).

Argyrotoza Conwayana *Fab.* Very common.

Bishop's Wood (*W.P.*); Boroughbridge (*W.P.*); Bramham ! (*J.Sm.*); Doncaster (*W.W.*); Edlington Wood, in plenty by beating yews (*G.T.P.*); Harrogate (*J. Sang*); Huddersfield (*P.I.* and *G.C.B.M.*); Richmond (*J. Sang*); York (*R.C.*).

Ptycholoma Lecheana *L.* Very common.

Bishop's Wood (*W.P.*); Bramham ! (*J.Sm.*); Doncaster (*W.W.*); Harrogate (*J. Sang*); Huddersfield (*P.I.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); York (*R.C.*).

Ditula Hartmanniana *L.* Scarborough (*T. W.*).

Ditula semifasciana *Haw.* Among willows.

Scarborough (*T. W.*).

Penthina corticana *Hüb.* = **picana** *Fröl.* Common.

Bramham! (*J. Sm.*); Doncaster (*W. W.*); Huddersfield (*G. C. B. M.*); Scarborough (*T. W.*); Sheffield (*A. D.*); York (*W. P.*).

Penthina betulætana *Haw.* Doncaster (*W. W.*); Huddersfield (*P. I.*); York (*R. C.*).

Penthina prælongana *Gn.* = **sororculana** *Zett.* On birch trees.

Bramham! (*J. Sm.*); Huddersfield (*P. I.*); Richmond (*J. Sang*); Scarborough (*T. W.*); Sheffield (*A. D.*); York (*W. P.*).

Penthina pruniana *Hüb.* Apparently common everywhere.

Penthina cynosbana *L.* = **variegana** *Hüb.* Common, no doubt everywhere.

Penthina ochromelana *Gn.* = **dimidiana** *Treit.* Bramham (*J. Sm.*); Huddersfield (*P. I.*).

Penthina sauciana *Hüb.* Abundant at Blackhills near Bingley in 1882 (*E. P. P. B.*); Scarborough (*T. W.*); Sheffield (*A. D.*).

Penthina gentianana *Curt.* Larva feeds in seed-heads of teasle (*Dipsacus sylvestris*).

Doncaster (*W. W.*).

Penthina marginana *Haw.* Richmond (*J. Sang*); Scarborough, in seed-heads of *Scabiosa* (*T. W.*).

Penthina fuligana *Hüb.* = **carbonana** *Dbl.* Scarborough (*T. W.*).

Antithesia salicana *Gn.* Bramham (*J. Sm.*).

Spilonota ocellana *W.V.* Common.

Askham Bog (*W.P.*); Bramham! (*J.Sm.*); Doncaster (*W.W.*); Harrogate (*J. Sang*); Redcar (*J. Sang*); Richmond (*J. Sang*); York, bred from plum (*G. C. Dennis*).

Spilonota laricana *Zell.* Mr. W. Warren used to find this species at Doncaster "flying round young larches at dusk, in company with *T. cinnamomeana* and *P. occultana*."**Spilonota dealbana** *Fröl.* Doncaster (*W.W.*); Harrogate (*J. Sang*); Sheffield (*A.D.*).**Spilonota neglectana** *Dup.* Bramham! (*J.Sm.*); Huddersfield (*Hobkirk's History of Huddersfield*); Sheffield (*A.D.*).**Spilonota suffusana** *Kollar.* Bramham! (*J.Sm.*); Doncaster (*W.W.*); Huddersfield (*P.I.*); Redcar (*J. Sang*); Sheffield (*A.D.*).**Spilonota roborana** *W.V.* Bramham! (*J.Sm.*); Doncaster (*W.W.*); Harrogate (*J. Sang*); Richmond (*J. Sang*); Sheffield (*A.D.*).**Pardia tripunctana** *W.V.* Probably everywhere.

Blubberhouses (*Lord Walsingham*); Bramham! (*J.Sm.*); Doncaster (*W.W.*); Harrogate (*J. Sang*); Huddersfield (*P.I.*); Redcar (*J. Sang*); Richmond (*J. Sang*); Sheffield (*A.D.*).

Aspis Udmanniana *L.* Common. The larva feeds on bramble.

Bramham! (*J.Sm.*); Doncaster (*W.W.*); Huddersfield! (*G.T.P.*); Sheffield (*A.D.*).

Sericoris lacunana *W.V.* Common no doubt everywhere.**Sericoris urticana** *Hüb.* Also plentiful probably everywhere.**Sericoris micana** *Hüb.* Scarborough (*T.W.*).**Mixodia Schulziana** *Fab.* Huddersfield (*G.C.B.M.*); Richmond (*J. Sang*); Sheffield (*A.D.*).

Mixodia Ratzburghiana *Sax.* Scarborough, among firs (*T. IV.*).

Roxana arcuana *L.* Edlington Wood (*IV. IV.*); Scarborough (*T. IV.*).

Orthotænia antiquana *Hüb.* Huddersfield (*P. I.*).

Orthotænia striana *W. V.* Bramham ! (*J. Sm.*); Doncaster (*IV. IV.*); Huddersfield (*P. I.*).

Orthotænia ericetana *Bent.* "One at Stockton-on-the-Forest in 1877" (*W. P.*).

Phtheocroa rugosana *Hüb.* Larva feeds in the berries of *Bryonia dioica*.

Bramham (*J. Sm.*); Doncaster (*IV. IV.*); York (*T. Wilson*).

Cnephasia lepidana *Curt.* = **politana** *Haw.* Found on heaths.

Richmond (*J. Sang*); Scarborough, abundant among bilberry (*T. IV.*).

Cnephasia musculana *Hüb.* Abundant, probably everywhere.

Bishop's Wood (*IV. P.*); Bramham ! (*J. Sm.*); Doncaster (*IV. IV.*); Harrogate (*J. Sang*); Huddersfield (*P. I.*); Redcar (*J. Sang*); Richmond (*J. Sang*).

Sciaphila nubilana *Hüb.* Common.

Harrogate (*J. Sang*); Huddersfield (*G. T. P.*); Sheffield (*A. D.*).

Sciaphila subjectana *Steph.* Common.

Blubberhouses (*Lord Walsingham*); Bramham ! (*J. Sm.*); Doncaster (*IV. IV.*); Harrogate (*J. Sang*); Huddersfield (*G. T. P.*); Redcar (*J. Sang*); Richmond (*J. Sang*); Sheffield (*A. D.*).

Sciaphila virgaureana *Tr.* Also abundant, probably everywhere.

Doncaster (*W.W.*); Harrogate (*J. Sang*); Huddersfield (*G.T.P.*); Redcar (*J. Sang*); Richmond (*J. Sang*); Sheffield (*A.D.*); York (*R.C.*).

Sciaphila chrysanthæana *Dup.* = *alternana* *W.V.* Larva feeds in the ox-eye daisy, and probably other compositæ.

Redcar (*J. Sang*).

Sciaphila pascuana *Stn.* ? = *pasivana* *Hüb.* Some larvæ I collected in the flowers of *Ranunculus bulbosus* in a rough field adjoining Lepton Great Wood, Huddersfield, in 1882, produced this species freely, along with plenty of *S. ictericana* and one specimen of *S. octomaculana* (*G.T.P.*).

Sciaphila hybridana *Hüb.* Common.

Bramham (*J.Sm.*); Doncaster (*W.W.*); Huddersfield (*P.I.*); Redcar (*J. Sang*); Richmond (*J. Sang*).

Sciaphila octomaculana *Haw.* ? I have bred this species from *Ranunculus* flowers, but it also feeds on thistle, and no doubt, like so many of its congeners, on numerous other plants. It is widely distributed and common in the county.

Blubberhouses (*Lord Walsingham*); Huddersfield (*G.T.P.* and *P.I.*); Scarborough (*T.W.*); Sheffield (*A.D.*).

Sphaleroptera ictericana *Haw.* I bred this freely in July, 1882, from larvæ collected the previous month with those of *S. pascuana* in flowers of *Ranunculus bulbosus* in a field adjoining Lepton Great Wood, Huddersfield (*G.T.P.*).

Capua ochraceana *Steph.* Doncaster (*W.W.*); Edlington Wood (*G.T.P.*); Huddersfield (*P.I.*).

Clepsis rusticana *Tr.* Huddersfield (*P.I.*); Richmond (*J. Sang*).

Bactra lanceolana *Hüb.* Common in damp fields where rushes grow.

Blubberhouses (*Lord Walsingham*); Doncaster (*W.W.*); Haigh! (*G.T.P.*); Harrogate (*J. Sang*); Richmond (*J. Sang*); Sheffield (*A.D.*).

Bactra furfurana *Haw.* Not common.

Scarborough (*T.W.*).

Phoxopteryx unguicana *L.* Hexthorpe near Doncaster (*W.W.*); Huddersfield (*P.I.*); Scarborough (*T.W.*).

Phoxopteryx biarcuana *Steph.* Sandburn near York (*W.P.*).

Phoxopteryx subarcuana *Wilk.* = *inornatana* *H.S.*
Sandburn near York (*W.P.*).

Phoxopteryx myrtillana *Tr.* I found this species in profusion among bilberry in a wood near Huddersfield, on June 9th, 1883.

Blubberhouses (*Lord Walsingham*); Huddersfield!! (*G.T.P.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*).

Phoxopteryx lundana *Fab.* Bramham! (*J.Sm.*); Harrogate (*J. Sang*); Hexthorpe near Doncaster (*W.W.*); Huddersfield (*P.I.*); Richmond (*J. Sang*); Sheffield (*A.D.*); York (*R.C.*).

Phoxopteryx Mitterbacheriana *W.V.* Larvæ feed on oak.

Boroughbridge (*W.P.*); Bramham! (*J.Sm.*); Doncaster (*W.W.*); Harrogate (*J. Sang*); Huddersfield (*P.I.*).

Phoxopteryx harpana *Hüb.* = *ramana* *L.* = *lactana* *Fab.*
Not uncommon among poplars.

Bramham! (*J.Sm.*); Doncaster (*G.T.P.*); Harrogate (*J. Sang*); Scarborough! (*T.W.*); Sheffield (*A.D.*); York (*W.P.*).

Grapholita ramana *L.* = **Paykulliana** *Fab.* Not uncommon among birches.

Doncaster (*W.W.*); Edlington Wood (*G.T.P.*); Huddersfield (*P.I.*); Richmond (*J. Sang*); York (*T. Wilson*).

Grapholita nisana *L.* Bramham (*J.Sm.*); Harrogate (*J. Sang*); Huddersfield (*P.I.*); Richmond (*J. Sang*); Thorne (*W.W.*); York (*R.C.*).

Grapholita nigromaculana *Haw.* Among ragwort.

Goole (*W.P.*); Redcar (*J. Sang*); Scarborough (*T.W.*).

Grapholita Campoliliana *W.V.* = **subocellana** *Don.* Among sallows.

Bramham ! (*J.Sm.*); Doncaster (*W.W.*); Harrogate (*J. Sang*); Huddersfield (*P.I.*); Richmond (*J. Sang*).

Grapholita trimaculana *Don.* Common among elm.

Doncaster (*W.W.*); Harrogate (*J. Sang*); Huddersfield (*P.I.*); Richmond (*J. Sang*).

Grapholita Penkleriana *W.V.* Common.

Bramham ! (*J.Sm.*); Doncaster (*W.W.*); Harrogate (*J. Sang*); Huddersfield (*P.I.*); Richmond (*J. Sang*); Scarborough ! (*T.W.*); Sheffield (*A.D.*); York (*R.C.*).

Grapholita obtusana *Haw.* Among hazel, &c.

Bishop's Wood !! (*W.P.*); Bramham ! (*J.Sm.*); Sheffield (*A.D.*).

Grapholita nævana *Hüb.* Larvæ in the young shoots of holly.

Doncaster (*W.W.*); Harrogate (*J. Sang*); Huddersfield (*P.I.*); Richmond (*J. Sang*); Sheffield (*A.D.*).

Grapholita geminana *Steph.* Richmond (*J. Sang*); Sheffield (*A.D.* and *W.W.*).

Phlæodes tetraquetra *Haw.* Among birch, alder, &c.
Common.

Doncaster (*W. W.*); Harrogate (*J. Sang*); Huddersfield (*P. I.*); Richmond (*J. Sang*).

Phlæodes immundana *Fisch.* Huddersfield (*P. I.*); Scarborough (*T. W.*).

Phlæodes crenana *Hüb.* Common at Scarborough (*T. W.*).

Hypermezia cruciana *L. = augustana D. L.* Larvæ in
sallow shoots.

Bramham (*J. Sm.*); Doncaster (*W. W.*); Harrogate (*J. Sang*); Richmond (*J. Sang*); Sheffield (*A. D.*); York!! (*W. P.*).

Batodes angustiorana *Haw.* Common.

Bishop's Wood, about oaks (*W. P.*); Bramham! (*J. Sm.*); Doncaster (*W. W.*); Richmond (*J. Sang*); York (*R. C.*).

Pædisca bilunana *Haw.* Rather common among birches.

Bramham! (*J. Sm.*); Doncaster (*W. W.*); Edlington Wood! (*G. T. P.*); Harrogate (*J. Sang*); Scarborough (*T. W.*); Sheffield (*A. D.*); York (*W. P.*).

Pædisca corticana *W. V.* Abundant among oaks.

Bramham (*J. Sm.*); Doncaster (*W. W.*); Harrogate (*J. Sang*); Huddersfield (*P. I.*); Richmond (*J. Sang*); Sheffield (*A. D.*); York (*R. C.*).

Pædisca profundana *W. V.* Greetland Moors near Halifax (*Hobkirk's History of Huddersfield*); "bred from dwarf
sallows at York by Mr. Jackson" (*W. P.*).

Pædisca ophthalmicana *Hüb.* Not uncommon among
poplars.

Bishop's Wood (*W. P.*); Bramham! (*J. Sm.*); Redcar (*J. Sang*); Scarborough! (*T. W.*); York (*P. W.*).

Pædisca occultana *Dougl.* Among fir trees.

Blubberhouses !! (*Lord Walsingham*); Bramham ! (*J. Sm.*); Doncaster (*W.W.*); Harrogate (*J. Sang*); Huddersfield (*P.I.*); Richmond (*J. Sang*); Scarborough! (*T.W.*).

Pædisca solandriana *L.* A most variable species, abundant in woods everywhere.

Pædisca semifuscana *Haw.* Abundant on *Myrica gale* at Askham Bog (*W.P.*); Doncaster (*W.W.*); Richmond (*J. Sang*).

Pædisca sordidana *Hüb.* = **stabilana** *Steph.* Bishop's Wood (*W.P.*); "by beating alders at York in September" (*W.P.*); and I think I have taken it at Edlington Wood (*G.T.P.*).

Ephippiphora bimaculana *Don.* Common among birches, especially in woods having an undergrowth of heather. In such a wood at Huddersfield, in September, 1882, I found the species in profusion; in one part of the wood every tap at the birch trees brought them out, and they were to be seen seated on the tops of the heather in all directions. The larva feeds in the shoots of birch in spring.

Bramham ! (*J.Sm.*); Haigh ! (*G.T.P.*); Harrogate (*J. Sang*); Huddersfield !! (*G.T.P.*); Richmond (*J. Sang*); Saltaire (*W.P.*); York (*W.P.*).

Ephippiphora cirsiiana *Zell.* Bramham (*J.Sm.*); Doncaster (*W.W.*); Huddersfield (*G.C.B.M.*); Redcar (*J. Sang*); Sheffield (*A.D.*); York (*R.C.*).

Ephippiphora pflugiana *Haw.* = **scutulana** *W.V.* Larvæ in thistle stems.

Doncaster (*W.W.*); Flamborough Head (*E.H.*); Huddersfield (*G.T.P.*); Richmond (*J. Sang*); Sheffield (*A.D.*); York (*R.C.*).

Ephippiphora Brunnichiana *W.V.* Larva feeds in the flower stems of coltsfoot (*Tussilago farfara*).

Bramham ! (*J.Sm.*); Hexthorpe near Doncaster (*W.W.*); Redcar (*J. Sang*); Richmond (*J. Sang*); Sheffield (*A.D.*).

Ephippiphora turbidana *Tr.* "On the banks of the river Don between Sheffield and Rotherham" (*A.D.*).

Ephippiphora nigricostana *Haw.* Larva in roots of *Stachys sylvatica*.

Near Doncaster ! (*W.W.*); Hexthorpe (*W.W.*); Huddersfield (*P.I.*); Sheffield (*A.D.*).

Ephippiphora trigeminana *Steph.* Bramham ! (*J.Sm.*); Doncaster (*W.W.*); Redcar (*J. Sang*).

Ephippiphora ephippiana *Hüb.=populana Fab.* Larva in shoots of willow.

Scarborough (*T.W.*).

Ephippiphora ravulana *H.S.* Mr. W. Warren found three specimens basking in the sun on birch leaves in the Green Farm Wood adjoining Sandal Beat near Doncaster.

Olindia ulmana *Hüb.* Bramham ! (*J.Sm.*); Edlington Wood (*G.T.P.* and *T. Wilson*); Harrogate (*J. Sang*).

Semasia spiniana *Fisch.* Flies in the afternoon sunshine. Scarborough (*T.W.*).

Semasia rufillana *Zell.* Feeds on wild carrot (*Daucus carota*).

Redcar (*J. Sang*).

Semasia Woeberana *Schiff.* On fruit trees, &c. Huddersfield (*P.I.*); Sheffield (*A.D.*); York (*R.C.*).

Coccyx strobilana *L.* Feeds in spruce fir cones, which should be gathered in winter.

Huddersfield (*P.I.*); Scarborough (*T.W.*).

- Coccyx splendidulana** *Gn.* About oaks, &c.
Doncaster (*W.W.*); Huddersfield (*P.I.*); Scarborough (*T.W.*); Sheffield (*A.D.*).
- Coccyx argyrana** *Hüb.* Also among oaks.
Doncaster (*W.W.*); Huddersfield (*P.I.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*).
- Coccyx hyrciniana** *Uslar.* Larva feeds on spruce fir.
Blubberhouses (*Lord Walsingham*); Doncaster (*W.W.*); Richmond (*J. Sang*); Sheffield (*A.D.*); Tadcaster (*J. H. Wood, Ent. Mo. Mag.*, xv. 109); York (*W.P.*).
- Coccyx distinctana** *Bent.* A scarce species.
Bramham ! (*J.Sm.*); Tadcaster, among *Abies picea* (*J. H. Wood, Ent. Mo. Mag.*, xv. 109).
- Coccyx ustomaculana** *Curt.* The larva feeds on *Vaccinium vitis-idaea*.
Huddersfield (*P.I.*); Sheffield (*A.D.*).
- Coccyx vacciniana** *Fisch.* Huddersfield (*P.I.*); Harrogate (*J. Sang*); Scarborough, abundant among bilberry on the moors (*T.W.*).
- Heusimene fimbriana** *Steph.* Larva on oak.
Bramham ! (*J.Sm.*); Huddersfield (*P.I.*); Richmond (*J. Sang*); Sheffield (*A.D.*); York (*R.C.*).
- Pamplusia monticolana** *Mann.* Scarborough (*T.W.*).
- Retinia buoliana** *W.V.* "By beating fir at Sandburn, York" (*W.P.*).
- Retinia pinicolana** *Dbl.* Bramham ! (*J.Sm.*); "beaten from fir at Sandburn, York" (*W.P.*).
- Retinia pinivorana** *Zell.* Scarborough, among firs (*T.W.*); "beaten from fir at Sandburn, York" (*W.P.*).
- Retinia resinana** *L.* Huddersfield (*P.I.*).

Carpocapsa grossana *Haw.* Scarborough (*T. W.*).

Carpocapsa pomonana *L.* The larva feeds in apples.

Huddersfield (*P. I.*); Scarborough (*T. W.*); Sheffield (*A. D.*); York (*R. C.*).

Opadia funebrana *Tr.* Larvæ feed inside plums.

Scarborough (*T. W.*).

Endopisa nigricana *Fab.* = **nebritana** *Tr.* = **pisana** *Gn.*

Larvæ feed inside pea-pods.

Bramham ! (*J. Sm.*); Scarborough ! (*T. W.*).

Stigmonota dorsana *Fab.* = **lunulana** *W. V.* The larvæ feed in pods of *Orob. tuberosus*.

Scarborough (*T. W.*, *Ent. Mo. Mag.*, xiii. 159).

Stigmonota orobana *Tr.* This species was first discovered in England by Mr. T. Wilkinson, who bred it from larvæ in the pods of *Vicia sylvatica* collected on the cliffs to the north of Scarborough. Some were sent to Mr. Doubleday as *S. lunulana*, but he at once saw they were distinct (*Ent. Mo. Mag.* x. 148, and xiii. 158).

Stigmonota coniferana *Ratzb.* Among firs.

Harrogate (*J. Sang*); Richmond (*J. Sang*); Scarborough (*T. W.*).

Stigmonota perlepidana *Haw.* Larva feeds on *Orob. tuberosus*).

Bramham ! (*J. Sm.*); Richmond (*J. Sang*).

Stigmonota internana *Gn.* Huddersfield (*P. I.*); Richmond (*J. Sang*); Scarborough, common among whin (*T. W.*); Strensall Common, in June (*W. P.*).

Stigmonota composana *Fab.* Among clover.

Doncaster (*W. W.*); York (*R. C.*).

Stigmonota Weirana *Dougl.* = **flexana** *Zell.* Mr. W. Warren used to take this species in the Green Farm Wood adjoining Sandal Beat, Doncaster.

Stigmonota nitidana *Fab.*=*redimitana* *Gn.* The larvæ feed between united oak leaves.

Doncaster (*W. W.*).

Stigmonota Trauniana *Schiff.* Should be looked for among maple.

Huddersfield (*P. I.*); Scarborough (*T. W.*).

Stigmonota regiana *Zell.* Bramham ! (*J. Sm.*); Scarborough !!, the larva feeds under the loose bark of sycamore (*T. W.*); Sheffield (*A. D.*).

Stigmonota puncticostana *Steph.* Scarborough (*T. W.*).

Stigmonota roseticolana *Zell.*=*Germanana* *Hüb.* Among wild rose, the larva feeding in the hips.

Doncaster (*W. W.*); Scarborough (*T. W.*).

Dicrorampha politana *W. V.* Among yarrow.

Huddersfield (*P. I.*); Sheffield !! (*A. D.* and *W. W.*).

Dicrorampha alpinana *Tr.* Larva feeds on tansy (*Tanacetum vulgare*).

Hexthorpe near Doncaster ! (*W. W.*).

Dicrorampha petiverana *L.* Among yarrow (*Achillea millefolium*).

Bramham ! (*J. Sm.*); Hexthorpe near Doncaster !! (*W. W.*); Sheffield (*A. D.*).

Dicrorampha plumbana *Scop.*=*ulicana* *Gn.* About the ox-eye daisy.

Blubberhouses (*Lord Walsingham*); Bramham ! (*J. Sm.*); Richmond ! (*J. Sang.*).

Dicrorampha herbosana *Barrett.* This comparatively recent addition to the British list Mr. W. Warren bred from larvæ found abundantly at roots of yarrow at Hexthorpe near Doncaster.

Dicrorampha consortana *Steph.* The larva feeds in the shoots of the ox-eye daisy.

Scarborough (*T. W.*).

Pyrodes rhediana *L.* Among hawthorn.

Hexthorpe near Doncaster (*W.W.*); Richmond (*J. Sang*).

Catoptria albersana *Hüb.* Scarborough, on honeysuckle (*T.W.*).

Catoptria ulicetana *Haw.* Common, probably everywhere, about furze, &c.

Bramham ! (*J.Sm.*); Doncaster !! (*W.W.*); Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Sheffield (*A.D.*).

Catoptria juliana *Curt.* The larvæ feed in acorns.
Sheffield (*A.D.*).

Catoptria hypericana *Hüb.* Probably common wherever the food-plant (*Hypericum*) grows freely.

Bramham ! (*J.Sm.*); Doncaster !! (*W.W.*); Edlington Wood ! (*G.T.P.*); Richmond ! (*J. Sang*); Sheffield (*A.D.*).

Catoptria cana *Haw.* = **scopoliana** *Wlk.* Among thistles. Some confusion exists in collections as to the nomenclature of this and the next species, consequently I only give those localities which seem certain: of part of those I have had sent it is doubtful to which species the localities belong.

Doncaster (*W.W.*); Huddersfield (*P.I.*); Redcar ! (*J. Sang*); Richmond ! (*J. Sang*).

Catoptria scopoliana *Haw.* = **Hohenwarthiana** *Gn.* Common; the larva feeds in the seed heads of *Centaurea nigra*.

Bramham ! (*J.Sm.*); Doncaster (*W.W.*); Huddersfield ! (*G.T.P.*); Sheffield (*A.D.*); York (*T. Wilson*).

Catoptria expallidana *Haw.* I took this species in my own garden at Highroyd, Huddersfield, but I know no other record for the county. Its food plant, *Sonchus arvensis*, grew freely in the adjoining fields.

Catoptria pupillana *L.* Abundant about wormwood (*Artemisia absinthium*) at Scarborough (*T. W.*).

Trycheris mediana *W. V.* = **aurana** *Fab.* Flies in the hot sunshine.

Bramham ! (*J. Sm.*); Doncaster (*W. W.*); Flamborough Head (*E. H.*); Harrogate (*J. Sang*); Huddersfield (*P. I.*); Scarborough (*T. W.*); Sheffield (*A. D.*); York (*R. C.*).

Choreutes scintilulana *Hüb.* Abundant among *Scutellaria galericulata* at Scarborough (*T. W.*).

Xylopora fabriciana *L.* Generally common among nettles.

Bramham ! (*J. Sm.*); Grassington (*G. T. P.*); Mickley near Ripon (*G. T. P.*); Redcar !! (*J. Sang*); Richmond !! (*J. Sang*); Sheffield (*A. D.*).

Eupœcilia nana *Haw.* Common.

Doncaster !! (*W. W.*); Huddersfield ! (*G. T. P.*); Richmond (*J. Sang*); Sheffield (*A. D.*).

Eupœcilia atricapitana *Steph.* Larva feeds in stems of ragwort.

Doncaster (*W. W.*); Flamborough Head (*E. H.*); Huddersfield (*P. I.*); Scarborough (*T. W.*).

Eupœcilia maculosana *Haw.* Flies in the morning sunshine.

Bramham ! (*J. Sm.*); Doncaster (*W. W.*); Huddersfield (*P. I.*); Richmond (*J. Sang*).

Eupœcilia sodaliana *Haw.* On *Hieracium* at Scarborough (*T. W.*).

Eupœcilia hybridellana *Hüb.* = **carduana** *Zell.* Bred by Mr. T. Wilkinson of Scarborough from seed-heads of *Picris hieracioides* (*Ent. Mo. Mag.*, xv. 141).

Eupœcilia angustana *Hüb.* Generally common on heaths.

Doncaster (*W. W.*); Flamborough Head (*E. H.*); Huddersfield (*G. T. P.*); Richmond !! (*J. Sang*); Scar-

borough (*W. R. Jeffrey, Ent. Mo. Mag.*, xv. 142); Thorne Waste ! (*G. T. P.*); York, abundant at Strensall Common (*W. P.*).

Eupœcilia ciliana *Hüb.* = **ruficiliana** *Haw.* Larva feeds in the seed-heads of various species of *Primula*.

Huddersfield (*P. I.*); Richmond (*J. Sang*).

Xanthosetia zoegana *L.* Generally distributed.

Bramham ! (*J. Sm.*); Doncaster (*W. W.*); Flamborough

Head (*E. H.*); Huddersfield (*P. I.*); Redcar (*J. Sang*);

Richmond (*J. Sang*); Sheffield (*A. D.*); York (*W. P.*).

• **Xanthosetia hamana** *L.* Bramham ! (*J. Sm.*); Doncaster (*W. W.*); Flamborough Head (*E. H.*); Huddersfield (*Hobkirk's History of Huddersfield*); Redcar ! (*J. Sang*); Richmond ! (*J. Sang*); Sheffield (*A. D.*); York (*W. P.*).

Chrosis tessera *W. V.* Scarborough !! (*T. W.*).

Argyrolepis Baumanniana *W. V.* = **Hartmanniana** *Clerk.*

Bramham ! (*J. Sm.*); Huddersfield (*P. I.*); Sheffield (*A. D.*).

Argyrolepis subbaumanniana *Wilk.* Richmond (*J. Sang*).

Argyrolepis badiana *Hüb.* Larva feeds in the roots of *Arctium lappa*.

Bramham (*J. Sm.*); Scarborough (*T. W.*).

Argyrolepis cnicana *Dbl.* Among thistles.

Bishop's Wood ! (*W. P.*); Bramham ! (*J. Sm.*); Flamborough

Head (*E. H.*); Huddersfield (*P. I.*); Scarborough

(*T. W.*); Sheffield (*A. D.*); York (*Ent. W. Int.*, 1860, p.

134).

Conchylis dilucidana *Steph.* The larva feeds in the stems of the wild parsnip (*Pastinaca sativa*).

Doncaster (*W. W.*).

Conchylis Smeathmanniana *Fab.* Larva feeds in the heads of *Achillea millefolium*, *Centaurea nigra*, &c.

Blubberhouses (*Lord Walsingham*); Doncaster (*W. W.*); Redcar (*J. Sang*).

Conchylis stramineana *Haw.* Common. The larva feeds in the heads of *Centaurea nigra*.

Bramham (*J.Sm.*); Flamborough Head (*E.H.*); Huddersfield (*G.T.P.*); Richmond! (*J. Sang*); Sheffield (*A.D.*); York (*W.P.*).

Conchylis gigantana *Gn.=alternana Steph.* Larva feeds in heads of *Centaurea scabiosa*.

Huddersfield (*P.I.*).

Conchylis inopiana *Haw.* Occurs among fleabane (*Inula dysenterica*).

Scarborough! (*T. W.*).

Aphelia pratana *Hüb.=osseana Scop.* Common; frequenting grassy parts of heaths and moors, grassy slopes, &c.

Bramham (*J.Sm.*); Grassington !! (*G.T.P.*); Huddersfield! (*G.T.P.*); Richmond !! (*J. Sang*); Saddleworth Moors (*R. S. Edelston*); Sandburn near York (*W.P.*).

Tortricodes hyemana *Hüb.* Common.

Bramham! (*J.Sm.*); Doncaster!! (*W. W.*); Huddersfield (*P.I.*); Richmond! (*J. Sang*); Sheffield (*A.D.*); York (*T. Wilson*).

TINEÆ.

Lemnatophila phryganella *Hüb.* Bramham (*J.Sm.*); Huddersfield (*P.I.*); Scarborough!! (*Stainton's Manual*); Sheffield (*A.D.*); York (*T. Wilson*).

Lemnatophila salicella *Hüb.* Huddersfield (*Hobkirk's History of Huddersfield*); York (*T. Wilson*).

- Exapate gelatella** *L.* Huddersfield, in my own garden (*G.T.P.*); Richmond (*J. Sang*); Sheffield (*A.D.*); York! (*T. Wilson*).
- Diurnea fagella** *W.V.* Abundant everywhere and very variable, some being very pale grey, others nearly black.
- Epigraphia avellanella** *Hüb.* Doncaster (*W.W.*); Huddersfield (*Hobkirk's History of Huddersfield*); Scarborough (*Stainton's Manual*); Sheffield (*A.D.*); York (*T. Wilson*).
- Epigraphia Steinkellneriella** *W.V.* Doncaster (*W.W.*); Huddersfield (*P.I.*); Scarborough, abundant on hawthorn and mountain-ash (*T.W.*); Sheffield (*A.D.*); York (*Stainton's Manual*).
- Talæporia pubicornella** *Haw.?* Grassington (*T.H.A., Stainton's Manual*, and *Young Naturalist*, August, 1882).
- Talæporia pseudo-bombycella** *Och.* Doncaster!! (*W.W.*); Scarborough, abundant on sycamore trunks (*T.W.*); York (*Stainton's Manual*).
- Psyche roboricolella** *Br.* Gledhow (*J.W.T.*); Huddersfield (*Hobkirk's History of Huddersfield*); Sheffield (*A.D.*); York (*Ent. W. Int.*, 1860, p. 134).
- Solenobia inconspicuellæ** *Stn.* Huddersfield (*Hobkirk's History of Huddersfield*); York (*Stainton's Manual*).
- Psychoides Verhuellella** *Heyd.* Richmond (*Stainton's Manual*); "Mr. Braim met with the larvæ mining the leaves of *Scolopendrium vulgare* last December" (*Ent. Ann.*, 1858, p. 104). "Unknown there to me" (*J. Sang*).
- Diplodoma marginepunctella** *Steph.* Huddersfield (*P.I.*); York (*Stainton's Manual*).
- Xysmatodoma melanella** *Haw.* York (*Stainton's Manual*).
- Ochsenheimeria Birdella** *Curt.* Huddersfield (*P.I.*); Scarborough! (*Stainton's Manual*); York (*Stainton's Manual*).

Ochsenheimeria bisontella *Lienig.* Huddersfield (*P.I.*).

Scardia emortuella *Zell.* = **corticella** *Curt.* Huddersfield (*P.I.*); Sheffield (*A.D.*); York (*Stainton's Manual*).

Scardia granella *L.* Doncaster !! (*W.W.*); Scarborough !! (*Stainton's Manual*); York !! (*Stainton's Manual*).

Scardia cloacella *Haw.* Common probably everywhere.
Doncaster !! (*W.W.*); Huddersfield (*P.I.*); Redcar !! (*J. Sang*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York !! (*T. Wilson*).

Scardia arcella *Fab.* Edlington Wood (*W.W.*); Scarborough ! (*T.W.*).

Tinea imella *Hüb.* Not common.
Stockton (*Zool.*, 1856, xiv. 5003).

Tinea rusticella *Hüb.* Common probably everywhere.
Doncaster (*W.W.*); Huddersfield (*G.T.P.*); Redcar !! (*J. Sang*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*).

Tinea fulvimitrella *Sodoff.* Widely distributed, but not common.

Bingley, one at Hawksworth Wood in June, 1882 (*E.P.P.B.*); Bramham (*J.Sm.*); Doncaster (*W.W.*); Rotherham (*Stainton's Manual*); Scarborough (*T.W.*); Sheffield (*A.D.*); York, in 1882 (*T. Wilson*).

Tinea tapetzella *L.* Very common everywhere.

Tinea misella *Zell.* York ! (*Stainton's Manual*).

Tinea pellionella *L.* In warehouses, &c., probably everywhere.

Doncaster (*W.W.*); Huddersfield ! (*G.T.P.*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York ! (*Stainton's Manual*).

Tinea fuscipunctella *Haw.* Common.

Huddersfield (*G.T.P.*); Scarborough !! (*Stainton's Manual*); York (*R. Anderson*).

Tinea pallescentella *Stn.* Common in warehouses, &c.

Doncaster (*W.W.*); Huddersfield !! (*G.T.P.*); Leeds (*E.B.*); York (*Stainton's Manual*).

Tinea ganomella *Tr.=lapella Stn.* Common.

Bramham (*J.Sm.*); Huddersfield (*P.I.*); Redcar (*J. Sang*); Richmond (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*H. T. Stainton, Zool.*, 1849, *p.* 2630); Thorne (*W.W.*); York (*Stainton's Manual*).

Tinea biselliella *Hemm.* Abundant in warehouses, the larvæ feeding on wool, hair, feathers, &c.

Doncaster !! (*W.W.*); Huddersfield !! (*G.T.P.*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York ! (*Stainton's Manual*).

Tinea nigripunctella *Haw.* Edlington Wood (*W.W.*); York (*Stainton's Manual*).

Tinea semifulvella *Haw.* Bishop's Wood (*W.P.*); Edlington Wood (*W.P.*); Flamborough Head (*E.H.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Thorne (*W.W.*); York (*Stainton's Manual*).

Tinea bistrigella *Haw.* Among birch, in the leaves of which the larva feeds.

Doncaster (*W.W.*); Harrogate ! (*J. Sang*); Huddersfield (*P.I.*); Richmond ! (*J. Sang*); Scarborough !! (*T.W.*); York (*R.C.*).

Lampronia quadripunctella *Fab.* Thorne !! (*W.W.*); York (*Stainton's Manual*).

Lampronia luzella *Hüb.* Bramham (*J.Sm.*); Huddersfield (*Hobkirk's History of Huddersfield*); Richmond (*J. Sang*); Scarborough (*T.W.*); York (*Stainton's Manual*).

Lampronia prælatella *W.V.* Edlington Wood !! (*W.V.*); Huddersfield (*Hobkirk's History of Huddersfield*); Richmond (*J. Sang*); Scarborough (*T.W.*).

Lampronia rubiella *Bjerk.* Doncaster! (*W.V.*); Huddersfield (*Hobkirk's History of Huddersfield*); Richmond! (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York (*Stainton's Manual*).

Incurvaria masculella *W.V.* Generally common.

Bramham (*J.Sm.*); Doncaster!! (*W.V.*); Harrogate! (*J. Sang*); Huddersfield (*P.I.*); Richmond! (*J. Sang*); Scarborough !! (*Stainton's Manual*); York (*W.P.*).

Incurvaria Zinckenella *Zell.* Halifax (*H. T. Stainton, Zool.*, 1848, *p.* 2631); Huddersfield ! (*G.T.P.*); Scarborough (*R.C.*); Thorne (*W.V.*); York ! (*Stainton's Manual*).

Incurvaria tenuicornella *Stn.* Wharnccliffe (*C. S. Gregson, Ent. W. Int.*, April 26, 1856).

Incurvaria Cœhlmanniella *Hüb.* Richmond (*J. Sang*); Scarborough (*T.W.*); York (*Stainton's Manual*).

Incurvaria capitella *L.* Huddersfield (*P.I.*); Scarborough (*Stainton's Manual*).

Micropteryx calthella *L.* Doncaster !! (*W.V.*); Huddersfield (*P.I.*); Mickley near Ripon !! about buttercup flowers (*G.T.P.*); Richmond !! (*J. Sang*); Scarborough, about flowers of marsh marigold (*T.W.*); York ! (*Stainton's Manual*).

Micropteryx Seppella *Fab.* Doncaster !! (*W.V.*); Flamborough Head (*E.H.*); Huddersfield (*G.T.P.*); Scarborough! (*Stainton's Manual*); York! (*Stainton's Manual*).

Micropteryx mansuetella *Zell.* York (*Stainton's Manual*).

Micropteryx Allionella *Fab.* Huddersfield ! (*G.T.P.*); Richmond !! (*J. Sang*); Scarborough, about spike-heads of wood sedge, *Carex sylvatica* (*T.W.*); York ! (*Stainton's Manual*).

Micropteryx Thunbergella *Fab.* Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sedbergh (*IV. IV.*); York, in 1877 (*IV.P.*).

Micropteryx purpurella *Steph.* Bramham (*J.Sm.*); Huddersfield (*P.I.*); Scarborough ! (*Stainton's Manual*); Sheffield (*A.D.*); York ! (*IV.P.*).

Micropteryx salopiella *Stn.* Bramham (*J.Sm.*); Doncaster (*IV. IV.*); Scarborough, on birch (*T.W.*).

Micropteryx semipurpurella *Steph.* Bramham (*J.Sm.*); Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York ! (*IV.P.*).

Micropteryx unimaculella *Zett.* Richmond ! (*J. Sang*); Scarborough (*T.W.*, *Ent. Ann.*, 1862, *p.* 123); York ! (*Stainton's Manual*).

Micropteryx Sparmanella *Bosc.* Richmond ! (*J. Sang*); Scarborough, among birch (*T.W.*); York (*Stainton's Manual*).

Micropteryx subpurpurella *Haw.* Castle Howard (*IV.P.*); Doncaster !! (*IV. IV.*); Huddersfield (*P.I.*); Richmond ! (*J. Sang*); Scarborough (*T.W.*, *Ent. Ann.*, 1863, *p.* 154); York (*IV.P.*).

Micropteryx fastuosella *Zell.* The larva feeds in hazel leaves.

Larvæ at Richmond (*J. Sang*); imago at York (*J. Sang*).

Nemophora Swammerdamella *L.* Doncaster ! (*IV. IV.*); Huddersfield (*G.T.P.*); Richmond ! (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York ! (*Stainton's Manual*).

Nemophora Schwarziella Zell. Doncaster ! (*W.W.*); Huddersfield !! (*G.T.P.*); Richmond !! (*J. Sang*); Scarborough (*T.W.*); York ! (*Stainton's Manual*).

Nemophora pilella *W.V.* Recorded from Scarborough and York, but Mr. Sang thinks it very doubtful if it occurs in Yorkshire, and that the supposed specimens were merely dark examples of *N. Schwarziella*.

Nemophora metaxella Hüb. Occurs on marshy ground. Askham Bog ! (*W.P.*); Bramham (*J.Sm.*); Scarborough (*Stainton's Manual*); York (*T. Wilson*).

Adela fibulella *W.V.* Feeds on speedwell (*Veronica chamaedrys*). Doncaster (*W.W.*); Richmond (*J. Sang*); Scarborough (*T.W.*); York ! (*Stainton's Manual*).

Adela rufimitrella Scop. ? Richmond (*J. Sang*); Scarborough (*T.W.*); York (*Stainton's Manual*).

Adela sulzella *W.V.* Scarborough (*T.W.*); York (*W.P.*).

Adela Degeerella L. Doncaster !! (*W.W.*); Huddersfield (*Hobkirk's History of Huddersfield*); Sheffield (*A.D.*); York (*J. Birks*).

Adela viridella L. Bramham (*J.Sm.*); Doncaster !! (*W.W.*); Huddersfield !! (*G.T.P.*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York !! (*Stainton's Manual*).

Nemotois cupriacella Hüb. Scarborough, about scabious (*T.W.*).

Nemotois minimella Zell. York (*T. Wilson, Ent. Mo. Mag.*, xvi. 211).

Swammerdamia comptella Hüb.=**apicella** Don. ? Red-car (*J. Sang*); Richmond (*J. Sang*); Scarborough !! (*Stainton's Manual*); York ! (*T. Wilson*).

Swammerdamia cæsiella *Hüb.* Doncaster !! (*W.W.*);
Huddersfield (*P.I.*); Scarborough (*Stainton's Manual*);
York (*T. Wilson*).

Swammerdamia oxyacanthella *Stn. ?* Doncaster !!
(*W.W.*).

Swammerdamia griseocapitella *Stn.* Harrogate (*J. Sang*);
Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*);
York ! (*Stainton's Manual*).

Swammerdamia lutarella *Haw.* Richmond (*J. Sang*);
Scarborough (*Stainton's Manual*); York (*Stainton's Manual*).

Swammerdamia pyrella *Vill.* Doncaster (*W.W.*); Harrogate !! (*J. Sang*);
Huddersfield (*P.I.*); Redcar !! (*J. Sang*); Richmond ! (*J. Sang*);
Scarborough (*Stainton's Manual*); York (*T. Wilson*).

Yponomeuta plumbella *W.V.* Larva feeds on spindle.
Edlington Wood, common some seasons (*G.T.P.*,
W.P., and *W.W.*); Richmond (*Stainton's Manual*).

Yponomeuta padella *L.* Bramham (*J.Sm.*); Doncaster
(*W.W.*); Huddersfield (*P.I.*); Scarborough !! (*Stainton's Manual*);
Sheffield (*A.D.*); York ! (*T. Wilson*).

Yponomeuta cognatella *Hüb.* Huddersfield (*P.I.*); Scarborough !!
(*Stainton's Manual*); York ! (*Stainton's Manual*).

Yponomeuta evonymella *L.=padi Zell.* Blubberhouses
(*Lord Walsingham*); Bramham (*J.Sm.*); Doncaster
(*W.W.*); Huddersfield (*P.I.*); Richmond !! (*J. Sang*);
Sheffield (*A.D.*); York ! (*Stainton's Manual*).

Anesychia funerella *Fab.* Mr. J. Sang informs me that
this local and beautiful species occurs at Richmond, and
on the Yorkshire side of Barnard Castle.

Pepilla Curtisella *Don.* Bramham (*J.Sm.*); Doncaster ! (*W.W.*); Flamborough Head (*E.H.*); Harrogate !! (*J. Sang*); Huddersfield (*P.I.*); Redcar !! (*J. Sang*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York ! (*Stainton's Manual*).

Plutella xylostella *L. = cruciferella Zell.* Common among cruciferous plants.

Bramham (*J.Sm.*); Doncaster ! (*W.W.*); Flamborough Head (*E.H.*); Harrogate (*J. Sang*); Huddersfield (*P.I.*); Redcar !! (*J. Sang*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York !! (*Stainton's Manual*).

Plutella porrectella *L.* Scarborough (*Stainton's Manual*); York ! (*Stainton's Manual*).

Plutella annulatella *Curt.* Flamborough Head (*E.H.*); Scarborough (*T.W.*).

Plutella Dalella *Stn.* Huddersfield (*P.I.*); Richmond (*J. Sang*); Scarborough (*T.W.*).

Hypolepia sequella *L.* Richmond (*J. Sang*); Scarborough !! (*Stainton's Manual*); York (*Stainton's Manual*).

Hypolepia vittella *L.* Generally common in woods, &c.

Edlington Wood ! (*G.T.P.*); Elland (*G.T.P.*); Hexthorpe (*W.W.*); Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); York (*W.P.*).

Hypolepia radiatella *Don.* Common.

Bishop's Wood (*W.P.*); Doncaster (*W.W.*); Harrogate !! (*J. Sang*); Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); York ! (*T. Wilson*).

Hypolepia costella *Fab.* Bishop's Wood (*W.P.*); Bramham (*J.Sm.*); Doncaster (*W.W.*); Harrogate !! (*J. Sang*); Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough, on sallow (*T.W.*); York (*T. Wilson*).

- Ypsolopha sylvella** *L.* Among oak.
Scarborough (*Stainton's Manual*); York (*Stainton's Manual*).
- Ypsolopha alpella** *IV.V.* Among oak.
York (*Stainton's Manual*).
- Ypsolopha lucella** *Fab.* York (*Stainton's Manual*).
- Harpiteryx scabrella** *L.* Larva feeds on apple.
Bramham (*J.Sm.*); Scarborough (*Stainton's Manual*);
York (*T. Wilson*).
- Harpiteryx nemorella** *L.* Rather common among honeysuckle.
Edlington Wood (*G.T.P.*); Huddersfield (*G.C.B.M.*);
Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield
(*A.D.*); York (*W.P.*).
- Harpiteryx harpella** *III.V.=xylostella Stn.* Common
probably wherever honeysuckle grows freely.
Edlington Wood ! (*G.T.P.*); Harrogate !! (*J. Sang*);
Huddersfield (*G.T.P.*); Richmond !! (*J. Sang*); Sheffield
(*A.D.*); York (*W.P.*).
- Orthotælia sparganiella** *Thunb.* Scarborough, larvæ in
stems of bur-reed, *Sparganium ramosum* (*T.W.*); York
(*Stainton's Manual*).
- Phibalocera quercella** *Fab.* Bramham (*J.Sm.*); Harrogate !! (*J. Sang*); Richmond !! (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); York (*R.C.*).
- Exæretia Allisella** *Stn.* Scarborough (*T.W.*).
- Depressaria costosella** *Haw.* Among furze, &c.
Bramham (*J.Sm.*); Flamborough Head (*E.H.*);
Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York (*W.P.*).

Depressaria liturella *W.V.* Bramham (*J.Sm.*); Doncaster (*W.W.*); Flamborough Head (*E.H.*); Huddersfield ! (*G.T.P.*); Redcar !! (*J. Sang*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York ! (*T. Wilson*).

Depressaria pallorella *Zell.* Scarborough (*Stainton's Manual*).

Depressaria umbellella *Steph.* Among furze.
Scarborough !! (*Stainton's Manual*); York ! (*T. Wilson*).

Depressaria assimilella *Tr.* Among broom.
Bramham (*J.Sm.*); Huddersfield (*P.I.*); Pontefract (*W.P.*); Scarborough (*Stainton's Manual*); Sheffield (*A.D.*); York !! (*Stainton's Manual*).

Depressaria nanatella *Stn.* Redcar (*J. Sang*).

Depressaria arenella *W.V.* Among knapweed and thistle.
Bramham (*J.Sm.*); Doncaster !! (*W.W.*); Redcar !! (*J. Sang*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); York !! (*T. Wilson*).

Depressaria propinquella *Tr.* Among thistles.
Redcar !! (*J. Sang*); Scarborough (*T.W.*); York (*T. Wilson*).

Depressaria subpropinquella *Stn.* Among thistles.
Doncaster (*W.W.*); Redcar !! (*J. Sang*); Scarborough ! (*Stainton's Manual*); York (*Stainton's Manual*).

Depressaria alstræmeriella *L.* Huddersfield (*P.I.*); Redcar !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York ! (*T. Wilson*).

Depressaria capreolella *Zell.* Said to feed on wild carrot.
Sheffield (*W.W.*).

Depressaria hypericella *Hüb.* Larvæ in screwed-up tops of St. John's wort (*Hypericum*).

Edlington Wood (*W.W.*); Scarborough (*T.W.*); Sheffield (*A.D.*).

Depressaria conterminella *Zell.* Among sallows.

Doncaster (*W.W.*); Richmond !! (*J. Sang*); York (*W.P.*).

Depressaria angelicella *Hüb.* Among *Angelica sylvestris*.

Huddersfield (*Hobkirk's History of Huddersfield*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York (*T. Wilson*).

Depressaria carduella *Hüb.* Among thistles.

Scarborough (*T.W.*).

Depressaria ocellella *Fab.* Among sallows.

Huddersfield (*P.I.*); Pontefract (*W.P.*); Scarborough !! (*Stainton's Manual*); York ! (*T. Wilson*).

Depressaria Yeatiella *Fab.* Larva said to feed on wild carrot.

Huddersfield (*P.I.*); Leeds (*G.C.B.M.*); York ! (*Stainton's Manual*).

Depressaria applanella *Fab.* Probably everywhere.

Bishop's Wood (*C.S.*); Doncaster (*W.W.*); Huddersfield (*P.I.*); Pontefract (*W.P.*); Redcar !! (*J. Sang*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York ! (*T. Wilson*).

Depressaria ciliella *Stn.* Among *Angelica*.

Huddersfield (*P.I.*); Redcar !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); York ! (*Stainton's Manual*).

Depressaria pimpinella *Zell.* York (*Stainton's Manual*).

Depressaria albipunctella *Hüb.* Larva feeds on wild carrot.

Scarborough (*Stainton's Manual*).

Depressaria pulcherrimella *Stn.* Huddersfield (*P.I.*);
Scarborough, abundant among *Bunium flexuosum* (*T. W.*);
York (*Stainton's Manual*).

Depressaria Douglasella *Stn.* Larva feeds on wild carrot.
One specimen at Redcar (*J. Sang*).

Depressaria chærophyllivorella *Dbl.* Scarborough
(*Stainton's Manual*).

Depressaria ultimella *Stn.* Redcar (*J. Sang*); Scarborough
(*Stainton's Manual*).

Depressaria nervosella *Haw.* Scarborough (*Stainton's Manual*).

Depressaria badiella *Hüb.* Redcar ! (*J. Sang*).

Depressaria heraciella *De Geer.* Common in woods and
lanes where *Heracleum sphondylium* grows freely.

Bishop's Wood (*W.P.*); Edlington Wood !! (*G. T.P.*);
Flamborough Head (*E.H.*); Goole Moors (*J. Harrison*);
Huddersfield ! (*G. T.P.*); Redcar !! (*J. Sang*); Richmond !!
(*J. Sang*); Scarborough !! (*Stainton's Manual*); York !
(*T. Wilson*).

Depressaria discipunctella *H.S.* = **pastinacella** *Dup.*
Huddersfield (*Hobkirk's History of Huddersfield*); one
specimen at Redcar (*J. Sang*).

Gelechia cinerella *L.* Redcar ! (*J. Sang*); Scarborough
(*T. W.*); York ! (*Stainton's Manual*).

Gelechia rufescentella *Haw.* Hexthorpe (*W. W.*); Red-
car ! (*J. Sang*); Scarborough "in tubulated rolled grass
leaves" (*T. W.*); York (*Stainton's Manual*).

Gelechia malvella *Hüb.* Occurs in gardens about holly-
hocks.

Huddersfield (*P.I.*); Scarborough (*Stainton's Manual*).

Gelechia populella *L.* Bramham (*J. Sm.*); Scarborough
(*Stainton's Manual*); Sheffield (*A.D.*); York (*W.P.*).

Gelechia ericetella *Hüb.* Very common, probably on all heaths.

Harrogate (*J. Sang*); Huddersfield !! (*G.T.P.*); Richmond !! (*J. Sang*); Sheffield (*A.D.*); Thorne (*IV. II.*).

Gelechia mulinella *Fisch.* Among furze.

Doncaster !! (*IV. II.*); Huddersfield (*P.I.*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York ! (*Stainton's Manual*).

Gelechia sororculella *Hüb.* Among willow.

Doncaster (*IV. II.*).

Gelechia cuneatella *Zell.* Scarborough, on willow (*T. II.*); York (*Rev. J. D. J. Preston, Ent. Ann.*, 1858, p. 106).

Gelechia longicornella *Curt.* Huddersfield (*P.I.*); Richmond (*J. Sang*); Scarborough (*Stainton's Manual*); Sheffield (*A.D.*); Thorne (*IV. II.*); York ! (*Stainton's Manual*).

Gelechia diffinella *Haw.* Huddersfield (*P.I.*); Scarborough !! the larva is found in a burrow at the root of *Rumex acetosella* (*T. IV.* and *J. Sang*).

Gelechia terrella *W. V.* Common no doubt everywhere.

Blubberhouses (*Lord Walsingham*); Doncaster !! (*IV. II.*); Huddersfield ! (*G.T.P.*); Redcar !! (*J. Sang*); Richmond !! (*J. Sang*).

Gelechia desertella *Stn.* Redcar !! (*J. Sang*); Scarborough ! (*Stainton's Manual*); York (*Stainton's Manual*).

Gelechia intaminatella *Stn.* Scarborough (*T. IV.*).

Gelechia expolitella *Dongl.* Redcar (*J. Sang*).

Gelechia acuminatella *Sircom.* Doncaster ! (*IV. IV.*); Redcar ! (*J. Sang*); Scarborough, on thistle (*T. IV.*).

Gelechia artemisiella *Tr.* Redcar (*J. Sang*); Scarborough !! (*Stainton's Manual*).

Gelechia viscariella Logan. Scarborough, about *Lychnis dioica*, common (*T. W.*).

Gelechia albipalpella H.S. At York in 1857 by Mr. Scott (*Ent. Ann.*, 1858, p. 90).

Gelechia senectella Zell. Redcar ! (*J. Sang*) ; Scarborough (*Stainton's Manual*).

Gelechia mundella Dougl. Redcar (*J. Sang*).

Gelechia similella Dougl. Richmond (*J. Sang*) ; Scarborough (*T. W.*).

Gelechia affinella Doncaster (*W. W.*) ; Huddersfield (*P. I.*).

Gelechia confinella Stn. I have repeatedly bred this insect along with *Scoparia muralis*, from moss found on old walls at Huddersfield. It was first added to the British list, as a species new to science, in 1871, from specimens bred by Mr. C. G. Barrett from larvæ sent in moss from old walls at Perth by Dr. F. Buchanan White, *mixed with those of Scoparia muralis*, which Mr. Barrett wished to breed (*Ent. Ann.*, 1871, p. 98). Mr. Sang has also taken the species at Richmond.

Gelechia umbrosella Zell. Rossington (*W. W.*).

Gelechia domesticella Haw. Huddersfield (*P. I.*) ; Scarborough (*Stainton's Manual*) ; York ! (*Stainton's Manual*).

Gelechia rhombella Hüb. Larva on apple.
Huddersfield (*P. I.*) ; Scarborough !! (*T. W.* and *J. Sang*) ; York (*T. Wilson*).

Gelechia proximella Hüb. Larva on birch, &c.
Doncaster ! (*W. W.*) ; Harrogate !! (*J. Sang*) ; Huddersfield (*P. I.*) ; Richmond !! (*J. Sang*) ; Scarborough !! (*J. Sang*) ; York ! (*Stainton's Manual*).

Gelechia notatella Hüb. Doncaster ! (*W. W.*) ; Scarborough (*T. W.*) ; York (*Stainton's Manual*).

- Gelechia vulgella** *Hüb.* Larva feeds on hawthorn.
Doncaster (*W.W.*); Huddersfield (*P.I.*); Scarborough! (*Stainton's Manual*); York! (*Stainton's Manual*).
- Gelechia luculella** *Hüb.* Hexthorpé! (*W.W.*); Huddersfield (*P.I.*); Sheffield (*A.D.*); York, in 1882 (*T. Wilson*).
- Gelechia scriptella** *Hüb.* Sheffield (*A.D.*); York (*Stainton's Manual*).
- Gelechia fugitivella** *Zell.* Edlington Lane, Doncaster!! (*W.W.*); Leyburn! (*J. Sang*); Scarborough! (*Stainton's Manual*).
- Gelechia Æthiopella** *West.* On ling.
Huddersfield (*P.I.*); Richmond (*J. Sang*); Scarborough!! (*T. IV.*); York! (*Stainton's Manual*).
- Gelechia solutella** *Fisch.* Scarborough (*T. IV.*).
- Gelechia celerella** *Dougl.* Redcar (*J. Sang*).
- Gelechia costella** *Steph.* Bramham (*J.Sm.*).
- Gelechia maculella** *Haw.* Larva in seed-heads and shoots of *Stellaria holostea*.
Redcar (*J. Sang*); Scarborough (*T. IV.*); York (*Stainton's Manual*).
- Gelechia tricolorella** *Haw.* Also among *Stellaria holostea*.
Doncaster! (*W.W.*); Redcar (*J. Sang*); Scarborough!! (*Stainton's Manual*); York (*Stainton's Manual*).
- Gelechia fraternella** *Dougl.* Larva in shoots of *Cerastium*.
Scarborough (*T. IV.*); Sheffield (*H. T. Stainton, Ent. W. Int., April 20, 1861*).
- Gelechia maculiferella** *Mann.* York (*T. Wilson*).
- Gelechia junctella** *Dougl.* York (*Stainton's Manual*).
- Gelechia Hubnerella** *Haw.* Bishop's Wood (*W.P.*); Huddersfield (*P.I.*).

Gelechia marmorella *Haw.* Huddersfield (*P.I.*); Redcar !! (*J. Sang*).

Gelechia obsoletella *Fisch.* Redcar !! (*J. Sang*).

Gelechia plantaginella *Stn.* This species was for many years confounded with *G. instabilella* Dougl., but Mr. Stainton has recently (*Ent. Mo. Mag.*, xix. 251) described the *Plantago maritima* feeding form, which is the one frequenting our coast, as a distinct species under the above name.

Flamborough Head (*E.H.*); Saltburn ! (*J. Sang*); Scarborough !! (*T. W.*).

Gelechia sequacella *Haw.* Richmond !! (*J. Sang*); Scarborough (*Stainton's Manual*).

Gelechia leucatella *L.* Doncaster ! (*W. W.*); Scarborough (*Stainton's Manual*).

Gelechia albicapitella *Zell.* Hexthorpe near Doncaster (*W. W.*).

Gelechia Mouffetella *W. V.* Larva on honeysuckle.
Huddersfield (*P.I.*); Sheffield (*A.D.*); York (*Stainton's Manual*).

Gelechia dodecella *L.* Larva in shoot; of Scotch fir.
Doncaster (*W. W.*); Harrogate (*J. Sang*); Scarborough (*T. W.*); York (*Stainton's Manual*).

Gelechia triparella *Zell.* York (*Stainton's Manual*).

Gelechia tenebrella *Hüb.=tenebrosella Zell.* Doncaster !! (*W. W.*); Huddersfield (*P.I.*); Scarborough !! (*T. W.* and *J. Sang*); York (*Stainton's Manual*).

Gelechia ligulella *Zell.* Scarborough (*T. W.*); York (*T. Wilson*).

Gelechia vorticella *Zell.* Doncaster !! (*W. W.*).

Gelechia tæniolella *Tr.* Scarborough, larva between leaves of *Lotus* (*T. W.*); York (*Stainton's Manual*).

- Gelechia Sircomella** *Stn.* Scarborough (*T. IV.*).
- Gelechia anthyllidella** *Hüb.* Redcar (*J. Sang*) ; Scarborough !! (*Stainton's Manual*).
- Gelechia lucidella** *Steph.* York (*Stainton's Manual*).
- Gelechia næviferella** *Zell.* Among *Chenopodium*.
Doncaster (*W. W.*) ; Huddersfield (*P. I.*) ; Redcar !! (*J. Sang*).
- Gelechia Hermannella** *Fab.* Redcar !! (*J. Sang*) ; Scarborough, larva on leaves of *Chenopodium* (*T. IV.*).
- Gelechia osseella** *Stn.* First discovered by Mr. T. Wilkinson in 1860, and described as new to science by Mr. Stainton in the Entomologists' Annual for 1861, p. 87 : " Mr. Wilkinson found them freely on the wing in the hot sunshine, the first week in June, in Yedmandale and Forge Valley, near Scarborough."
- Gelechia pictella** *Zell.* At roots of *Cerastium vulgatum*.
Redcar (*J. Sang*) ; Rossington (*W. W.*).
- Gelechia ericinella** *Zell.* Occurs on heaths.
Doncaster (*W. W.*) ; Thorne Waste (*W. P.*) ; York (*W. P.*).
- Gelechia subocellella** *Steph.* Scarborough, abundant among *Origanum* (*T. W.*).
- Parasia lappella** *L.* Larva feeds in seeds of burdock (*Arctium*).
Bramham (*J. Sm.*) ; Scarborough (*T. W.*) ; York (*Stainton's Manual*).
- Parasia Metzneriella** *Dougl.* Among *Centaurea nigra*.
Harrogate !! (*J. Sang*) ; Hexthorpe !! (*W. W.*) ; Scarborough !! (*T. W.* and *J. Sang*) ; Sheffield (*A. D.*).
- Parasia carlinella** *Dougl.* Among carline thistle (*Carlina vulgaris*).
Scarborough (*T. W.*) ; York (*Stainton's Manual*).

Chelaria conscriptella *Hüb.* = *Hubnerella* *Don.* Askham Bog ! (*W.P.*); Bramham (*J.Sm.*); Doncaster ! (*W.W.*); Harrogate !! (*J. Sang*); Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); York (*T. Wilson*).

Anarsia spartiella *Schr.* Among furze, &c., Scarborough (*T.W.*).

Macrochila marginella *Fab.* Huddersfield (*P.I.*).

Sophronia parenthesesella *L.* Rossington (*W.W.*).

Pleurota bicostella *L.* Plentiful in suitable localities.

Halifax ! (*G.T.P.*); Huddersfield !! (*G.T.P.*); Richmond !! (*J. Sang*); Scarborough !! (*T.W.* and *J. Sang*); Sheffield (*A.D.*); Thorne Waste (*G.T.P.* and *W.W.*); York (*W.P.*).

Harpella Geoffrella *L.* Huddersfield (*P.I.*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*).

Dasycera sulphurella *Fab.* Common.

Bramham (*J.Sm.*); Doncaster !! (*W.W.*); Huddersfield (*G.T.P.*); Leeds and Potternewton (*W.D.R.*); Mickley near Ripon (*G.T.P.*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); Wakefield ! (*G.T.P.*); York ! (*Stainton's Manual*).

Æcophora minutella *L.* Huddersfield (*P.I.*); Scarborough (*Stainton's Manual*); York ! (*Stainton's Manual*).

Æcophora flavimaculella *Stn.* Among *Angelica sylvestris*. Harrogate !! (*J. Sang*); Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough (*P.I.*); York (*W.P.*).

Æcophora trisignella *Zell.* Huddersfield (*P.I.*).

Æcophora stipella *Clerck.* Blubberhouses (*Lord Walsingham*); Huddersfield (*Hobkirk's History of Huddersfield*); Richmond (*J. Sang*); Saddleworth Moors (*R.S. Edleston*); York (*Stainton's Manual*).

- Œcophora augustella** *Hüb.* Hexthorpe (*W.W.*); Tickhill (*W.W.*); York (— *Hind*).
- Œcophora subaquilella** *Edl.* Huddersfield (*P.I.*); Scarborough (*T.W.*); York (*Stainton's Manual*).
- Œcophora flavifrontella** *Hüb.* Guisborough Woods (*John Scott, Ent. W. Int.*, 1861, x. 68); Scarborough (*T.W.*).
- Œcophora fuscescetella** *Haw.* Bramham (*J.Sm.*); Doncaster (*W.W.*); Huddersfield (*P.I.*); Redcar ! (*J. Sang*); Scarborough (*T.W.*); York (*Stainton's Manual*).
- Œcophora pseudo-spretella** *Stn.* Abundant everywhere in houses, warehouses, &c. It is often very destructive in one's breeding-cages, the larvæ feeding on the pupæ, &c.
- Endrosis fenestrella** *Scop.* As abundant as the last species, and almost as great a nuisance.
- Butalis fusco-æneella** *Haw.* Grassington (*T. H. Allis ?*); (*Young Naturalist, August, 1882*).
- Butalis senescentella** *Stn.* Among thyme.
Richmond (*J. Sang*); Scarborough (*T.W.*); York (*Stainton's Manual*).
- Butalis fusco-cuprella** *Haw.* Scarborough (*T.W.*).
- Butalis chenopodiella** *Hüb.* Sheffield (*A.D.*); York (*Stainton's Manual*).
- Butalis incongruella** *Stn.* Occurs on heaths.
Huddersfield (*P.I.*); Scarborough ! (*T.W.*).
- Pancalia Leuwenhoekella** *L.* Bramham (*J.Sm.*); Huddersfield (*P.I.*); Richmond (*J. Sang*); York ! (*Stainton's Manual*).
- Acrolepia granitella** *Tr.* Larva feeds in the leaves of *Inula dysenterica*.
Redcar !! (*J. Sang*); Scarborough (*T.W.*).
- Acrolepia betulella** *Curt.* Richmond, one specimen (*J. Sang*).

Glyphipteryx fuscoviridella *Haw.* Doncaster !! (*IV. IV.*);
Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough !!
(*Stainton's Manual*); York (*Stainton's Manual*).

Glyphipteryx Thrasonella *Scop.* Huddersfield (*P.I.*);
Scarborough !! (*Stainton's Manual*); York (*Stainton's Manual*).

Lord Walsingham states that the variety **cladiella** *Stn.* occurs at Blubberhouses.

Glyphipteryx Haworthella *Steph.* Huddersfield (*P.I.*);
Scarborough !!, larva in seed-heads of cotton-grass (*T. IV.*);
Sheffield (*A.D.*); York (*Stainton's Manual*).

Glyphipteryx equitella *Scop.* Among *Sedum acre*.

Richmond !! (*J. Sang*); Scarborough (*T. IV.*); York
(*Stainton's Manual*).

Glyphipteryx Fischeriella *Zell.* Doncaster !! (*IV. IV.*);
Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough !!
(*T. IV.* and *J. Sang*); York (*Stainton's Manual*).

Perittia obscuripunctella *Stn.* Should be looked for
about honeysuckle.

York (*Stainton's Manual*).

Tinagma sericiella *Haw.* Huddersfield (*P.I.*); Scar-
borough !! (*Stainton's Manual*); York (*Stainton's Manual*).

Tinagma resplendella *Dougl.* Larva inside alder leaves
at Scarborough !! (*T. IV.*); Sheffield (*A.D.*).

Argyresthia ephippella *Fab.* Huddersfield (*P.I.*); near
Redcar !! (*J. Sang*); Scarborough (*Stainton's Manual*);
Sheffield (*A.D.*); York ! (*T. Wilson*).

Argyresthia nitidella *Fab.* Abundant no doubt everywhere.

Doncaster (*IV. IV.*); Edlington Wood (*G. T. P.*);
Haigh (*G. T. P.*); Harrogate !! (*J. Sang*); Huddersfield !!
(*G. T. P.*); Redcar !! (*J. Sang*); Richmond !! (*J. Sang*);
Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*);
York ! (*Stainton's Manual*).

Argyresthia purpurascentella *Stn.* Out of hawthorn at Sheffield, July 22nd, 1848 (*H. T. Stainton*).

Argyresthia semitestacella *Curt.* Edlington !! (*W. W.*); Harrogate !! (*J. Sang*); Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough ! (*Stainton's Manual*); York ! (*Stainton's Manual*).

Argyresthia spiniella *Zell.* Blubberhouses (*Lord Walsingham*); Doncaster (*W. W.*); Huddersfield (*P.I.*); Richmond (*J. Sang*); Scarborough, larva in young stems of mountain ash (*T. W.*); Sheffield (*A.D.*); York (*Stainton's Manual*).

Argyresthia albistriella *Haw.* Doncaster (*W. W.*); Harrogate !! (*J. Sang*); Huddersfield (*P.I.*); Redcar !! (*J. Sang*); Richmond !! (*J. Sang*); Scarborough!! (*Stainton's Manual*); York (*T. Wilson*).

Argyresthia conjugella *Zell.* Larva in berries of mountain ash.

Edlington Wood (*W. W.*); Harrogate !! (*J. Sang*); Richmond !! (*J. Sang*); Scarborough !! (*J. Sang* and *T. W.*); Sheffield (*A.D.*); York ! (*Stainton's Manual*).

Argyresthia semifuscella *Haw.* Larva feeds in ash and sloe.

Harrogate (*J. Sang*); Huddersfield (*P.I.*); Richmond (*J. Sang*); Scarborough (*Stainton's Manual*); York ! (*Stainton's Manual*).

Argyresthia mendicella *Haw.* Huddersfield (*P.I.*); Redcar!!(*J. Sang*); Richmond!!(*J. Sang*); York ! (*Stainton's Manual*).

Argyresthia glaucinella *Zell.* Among oak, &c.
Sheffield (*A.D.*).

Argyresthia retinella *Zell.* Among birch.

Doncaster !! (*W. W.*); Richmond !! (*J. Sang*); Scarborough (*T. W.*); York ! (*Stainton's Manual*).

Argyresthia dilectella Zell. On juniper at Sheffield (*H. T. Stainton, Zool.*, 1849).

Argyresthia Andereggiella Fisch. Bramham (*J.Sm.*).

Argyresthia curvella L. Among apple.

Doncaster (*W.W.*); Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough ! (*Stainton's Manual*); York (*T. Wilson*).

Argyresthia sorbiella Tr. Huddersfield (*P.I.*); Richmond (*J. Sang*); Scarborough (*Stainton's Manual*); Sheffield (*A.D.*); York ! (*Stainton's Manual*).

Argyresthia pygmæella Hüb. Among willow.

Doncaster ! (*W.W.*); Harrogate !! (*J. Sang*); Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); York ! (*Stainton's Manual*).

Argyresthia Gædartaella L. A very beautiful species, and apparently abundant everywhere.

Doncaster ! (*W.W.*); Edlington Wood !! (*G.T.P.*); Harrogate !! (*J. Sang*); Huddersfield (*G.T.P.*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York (*T. Wilson*).

Argyresthia Brockeella Hüb. Also a very pretty and very common species.

Doncaster !! (*W.W.*); Harrogate !! (*J. Sang*); Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York ! (*T. Wilson*).

Cedestis farinatella Zell. Among firs.

Doncaster ! (*W.W.*); Harrogate !! (*J. Sang*); Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough (*T.W.*); York ! (*T. Wilson*).

Ocnerostoma pinariella Zell. Among firs.

Huddersfield (*P.I.*); Richmond (*J. Sang*); Scarborough (*T.W.*); York ! (*Stainton's Manual*).

Zelleria hepariella *Mann.* ♂ = *insignipennella* *Stn.* ♀
Richmond (*J. Sang*); Scarborough (*T. W.*).

Gracilaria Swederella *Thunb.* = *alchimiella* *Scop.* A
beautiful species, very common among oaks.

Doncaster (*W. W.*); Edlington Wood (*G. T. P.*);
Harrogate (*J. Sang*); Huddersfield ! (*G. T. P.*); Richmond
(*J. Sang*); Scarborough (*P. I.*); Sheffield (*A. D.*); York
(*T. Wilson*).

Gracilaria stigmatella *Fab.* Among poplars and willows.

Huddersfield (*P. I.*); Richmond (*J. Sang*); Scar-
borough (*T. W.*); Sheffield (*A. D.*); York (*Stainton's*
Manual).

Gracilaria stramineella *Stn.* I took this pretty species
in Wharnccliffe Woods, near Sheffield, on the occasion of
the Yorkshire Naturalists' Union's visit there on September
14th, 1878 (*G. T. P.*); York (*Stainton's Manual*).

Gracilaria semifasciella *Haw.* Scarborough, common on
maple (*T. W.*).

Gracilaria elongella *L.* Among alders.

Doncaster ! (*W. W.*); Huddersfield !! (*P. I.*); Rich-
mond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*);
Sheffield (*A. D.*); York ! (*Stainton's Manual*).

Gracilaria tringipennella *Zell.* Among plantain.

Flamborough Head (*E. H.*); Huddersfield (*P. I.*);
Scarborough (*T. W.*); York ! (*Stainton's Manual*).

Gracilaria syringella *Fab.* Common among lilac, ash,
and privet.

Doncaster (*W. W.*); Huddersfield (*G. C. B. M.*); Rich-
mond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*);
Sheffield (*A. D.*); York ! (*T. Wilson*).

Gracilaria auroguttella *Steph.* Among *Hypericum*.

Harrogate (*J. Sang*); Hexthorpe ! (*W. W.*); Hudders-
field (*P. I.*); Scarborough (*T. W.*); Sheffield (*A. D.*); York
(*Stainton's Manual*).

Gracilaria imperialella *Mann.* Three specimens at Richmond (*J. Sang*).

Coriscium Brongniardella *Fab.* York (*Stainton's Manual*).

Coriscium cuculipennella *Hüb.* Among privet.

Near Leyburn, one specimen (*J. Sang*); York (*Stainton's Manual*).

Coriscium citrinella *Fisch.* = **sulphurella** *Haw.* Scarborough (*T. W.*).

Ornix avellanæcolella *Stn.* Among hazel.

Doncaster !! (*W. W.*); Huddersfield (*P. I.*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); York (*Stainton's Manual*).

Ornix anglicella *Stn.* Among hawthorn, &c.

Doncaster !! (*W. W.*); Huddersfield (*P. I.*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); York (*Stainton's Manual*).

Ornix betulævorella *Dbl.* Among birch.

Doncaster ! (*W. W.*); Harrogate (*J. Sang*); Richmond (*J. Sang*); Scarborough (*T. W.*).

Ornix torquilella *Stn.* Among sloe.

Balby near Doncaster !! (*W. W.*); Huddersfield (*P. I.*); Richmond !! (*J. Sang*); Scarborough (*T. W.*); York (*Stainton's Manual*).

Ornix Scoticella *Stn.* Among mountain ash.

Harrogate !! (*J. Sang*); Richmond !! (*J. Sang*); Scarborough (*T. W.*); York (*Stainton's Manual*).

Ornix Loganella *Stn.* Among birch.

Huddersfield (*P. I.*); Scarborough !! (*T. W.*); York (*Stainton's Manual*).

Ornix guttella *Haw.* Among apple.

Huddersfield (*Hobkirk's History of Huddersfield*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); York ! (*T. Wilson*).

Coleophora Fabriciella *Vill.* Scarborough (*Stainton's Manual*).

Coleophora alcyonipennella *Koll.* Among *Centaurea nigra*.

Hexthorpe near Doncaster ! (*W.W.*); Scarborough !! (*J. Sang* and *T.W.*); Sheffield (*A.D.*); York (*Stainton's Manual*).

Coleophora paripennella *Fisch.* On birch.

Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*).

Coleophora lixella *Zell.* Larva on grasses.

Scarborough (*T.W.*).

Coleophora pyrrhulipennella *Fisch.* Abundant probably on all heaths.

Harrogate (*J. Sang*); Huddersfield !! (*G.T.P.*); Scarborough (*T.W.*); Sheffield (*A.D.*); Thorne (*W.W.*); York (*W.P.*).

Coleophora albicostella *Haw.* Among furze.

Richmond (*J. Sang*); Scarborough (*P.I.*); Sheffield (*A.D.*).

Coleophora anatipennella *Hüb.* Scarborough (*T.W.*); Sheffield (*A.D.*); York (*T. Wilson*).

Coleophora ardeæpennella *Scott.* Rossington !! (*W.W.*); York, on sallow (*T. Wilson*).

Coleophora palliatella *Zell.* Bishop's Wood, from oak (*W.P.*); Rossington !! (*W.W.*).

Coleophora ibipennella *Heyd.* Sheffield (*A.D.*); York (*T. Wilson*).

Coleophora currucipennella *Fisch.* Larva on birch.

In the Green Farm Wood, adjoining Sandal Beat, Doncaster (*W.W.*).

Coleophora niveicostella *Fisch.* York (*Stainton's Manual*).

Coleophora discordella Zell. Larva feeds on *Lotus*.

Flamborough Head (*E.H.*); Hexthorpe near Doncaster ! (*W.W.*); Scarborough !! (*P.I.* and *J. Sang*); Sheffield (*A.D.*); York (*Stainton's Manual*).

Coleophora genistæcolella Dbl. Scarborough ! (*Stainton's Manual*); abundant on *Genista anglica* on Strensall Common, York (*W.P.*).

Coleophora troglodytella Stn. Larva on leaves of *Eupatorium cannabinum*, &c.

Scarborough !! (*J. Sang* and *T.W.*); York (*Stainton's Manual*).

Coleophora graminicolella Hein. Should be looked for on *Lychnis*.

Doncaster, four specimens (*W.W.*).

Coleophora lineolella Haw. Huddersfield (*P.I.*).

Coleophora murinipennella Fisch. Larva feeds on the seeds of woodrush (*Luzula*).

Doncaster !! (*W.W.*); Scarborough (*T.W.*); Sheffield (*A.D.*); York (*Stainton's Manual*).

Coleophora cæspititiella Zell. Abundant no doubt everywhere where rushes grow. The white cases of the larvæ may often be seen in thousands on the seed-heads of rushes in autumn.

Blubberhouses (*Lord Walsingham*); Doncaster (*W.W.*); Haigh !! (*G.T.P.*); Harrogate !! (*J. Sang*); Huddersfield ! (*G.T.P.*); Redcar !! (*J. Sang*); Richmond !! (*J. Sang*); Sheffield (*A.D.*); York !! (*T. Wilson*).

Coleophora Tengstromella Dbl. Redcar !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York (*Stainton's Manual*).

Coleophora virgaureella Stn. Scarborough !!, larva on seeds of golden-rod (*J. Sang* and *T.W.*); Sheffield (*A.D.*).

- Coleophora juncicolella** *Stn.* Larva feeds on heath.
 Scarborough (*H. T. Stainton, Ent. Ann.*, 1858, p. 110);
 Sheffield (*A.D.*); York (*Stainton's Manual*).
- Coleophora laricella** *Hüb.* Among larch.
 Doncaster !! (*W.W.*); Harrogate !! (*J. Sang*); Richmond !! (*J. Sang*); Sheffield (*A.D.*); York (*T. Wilson*).
- Coleophora albitarsella** *Zell.* Larva feeds on ground ivy, &c.
 Doncaster (*W.W.*); Richmond (*J. Sang*); Scarborough (*T.W.*).
- Coleophora nigricella** *Steph.* Common; larva on hawthorn, &c.
 Doncaster (*W.W.*); Harrogate !! (*J. Sang*); Redcar !! (*J. Sang*); Richmond !! (*J. Sang*); Scarborough !! (*J. Sang*); Sheffield (*A.D.*); York !! (*T. Wilson*).
- Coleophora fuscadinella** *Zell.* Doncaster (*W.W.*); Harrogate !! (*J. Sang*); Redcar !! (*J. Sang*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); York ! (*T. Wilson*).
- Coleophora gryphipennella** *Bouche.* Larva feeds on leaves of rose.
 Doncaster !! (*W.W.*); Richmond !! (*J. Sang*); Scarborough !! (*P.I.* and *J. Sang*); Sheffield (*A.D.*); York ! (*T. Wilson*).
- Coleophora siccifoliella** *Stn.* Scarborough, on whitethorn (*T.W.*).
- Coleophora Wilkinsonella** *Scott.* This species was named after Mr. Thomas Wilkinson, by whom it was first bred from larvæ found on birch leaves at Scarborough, about the year 1858. Since then Mr. Sang has also found it at Richmond.
- Coleophora vitisella** *Gregs.* Larva feeds on *Vaccinium vitis-idaea*.

Sheffield (*A.D.* and *W.W.*). I have no doubt this species would readily be found in other suitable localities in the south West Riding.

Coleophora viminetella Zell. Larva on leaves of willow.

Doncaster (*W.W.*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York ! (*T. Wilson*).

Coleophora olivaceella Stn. Scarborough (*T.W.*); Sheffield (*H. T. Stainton, Ent. W. Int., April 20, 1861*).

Coleophora solitariella Zell. Larva on leaves of *Stellaria holostea*.

Harrogate (*J. Sang*); Ripon (*J. Sang*); Scarborough (*T.W.*); York (*T. Wilson*).

Coleophora lutipennella Zell. Among oaks, &c.

Doncaster (*W.W.*); Huddersfield (*P.I.*); Richmond ! (*J. Sang*); Scarborough (*T.W.*); York (*T. Wilson*).

Coleophora badiipennella Fisch. Doncaster (*W.W.*); Scarborough ! (*Stainton's Manual*); York (*Stainton's Manual*).

Coleophora limosipennella Fisch. Ripon (*J. Sang*); York (*T. Wilson*).

Coleophora chalcogrammella Zell. This beautiful species was first discovered as British by Mr. T. Wilkinson, who found the larvæ feeding on the leaves of *Cerastium arvense* at Scarborough, in May, 1857; the perfect insects appeared the following month (see *Entomologist's Annual*, 1858, p. 93).

Batrachedra præangustella Haw. Among willow, &c.

Doncaster (*W.W.*); Harrogate !! (*J. Sang*); Richmond !! (*J. Sang*); Scarborough !! (*T.W.*); Sheffield (*A.D.*); York (*Stainton's Manual*).

Oinophila V-flavella Haw. Scarborough, common in wine vaults (*T.W.*).

Chauliodus chærophyllella *Goe.* Scarborough (*T.W.*); York ! (*Stainton's Manual*).

Laverna paludicolella *Dbl.* = **propinquella** *Stn.* Larvæ on *Epilobium hirsutum* and *roseum* in February and March ; imagos frequent ragwort flowers in the daytime (*T.W.*).
Doncaster (*W.W.*) ; Flamborough Head (*E.H.*) ; Scarborough !! (*J. Sang* and *T.W.*) ; York (*Stainton's Manual*).

Laverna lacteella *Steph.* Huddersfield (*Hobkirk's History of Huddersfield*) ; Scarborough ! (*Stainton's Manual*) ; York (*Stainton's Manual*).

Laverna miscella *W.V.* Larvæ in leaves of *Helianthemum*.
Richmond ! (*J. Sang*) ; Scarborough (*T.W.*).

Laverna conturbatella *Hüb.* Bramham (*J.Sm.*).

Laverna Stephensiella *Stn.* Rotherham (*W. Simmons, Ent. W. Int.*, 1859, p. 147).

Laverna epilobiella *Schr.* Larva feeds on *Epilobium hirsutum*.

Doncaster (*W.W.*) ; York ! (*T. Wilson*).

Laverna ochraceella *Curt.* Larvæ in roots and stems of *Epilobium* at Scarborough !! (*J. Sang* and *T.W.*) ; York ! (*T. Wilson*).

Laverna Hellerella *Dup.* = **atra** *Haw.* Among hawthorn, &c.

Doncaster (*W.W.*) ; Richmond (*J. Sang*) ; Scarborough !! (*Stainton's Manual*) ; Sheffield (*A.D.*) ; York ! (*T. Wilson*).

Chrysoclista Schrankella *Hüb.* Scarborough, common on *Epilobium* (*T.W.*) ; Sheffield (*A.D.*).

Chrysoclista bimaculella *Haw.* Mr. T. Wilson took this rare species by beating, at York, in 1882.

Chrysoclista flavicapitella *Haw.* Balby, near Doncaster (*W.W.*); Huddersfield (*P.I.*); Richmond (*J. Sang*); Scarborough !! (*Stainton's Manual*); York ! (*Stainton's Manual*).

Asychna modestella *Dup.* Among *Stellaria holostea*.
York (*Stainton's Manual*).

Asychna fuscociliella *Stn.* = **Coleophora fuscocuprella** *H.S.* Doncaster !! (*G.T.P.*); York, on nut leaves (*T. Wilson, Ent. Mo. Mag.*, xvi. 211).

Asychna terminella *Dale.* Scarborough, on enchanter's nightshade !! (*T.W.* and *J. Sang*).

Chrysocoris festaliella *Hüb.* Among bramble and raspberry.
Doncaster (*W.W.*); Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough (*T.W.*); York ! (*Stainton's Manual*).

Antispila Pfeifferella *Fab.* Larva in leaves of dogwood.
Doncaster (*W.W.*); Scarborough (*T.W.*).

Antispila Treitschkiella *Fisch.* Scarborough, on leaves of dogwood (*T.W.*).

Stephensia Brunnichella *L.* Among *Clinopodium vulgare*.
Richmond (*J. Sang*).

Elachista Gleichenella *Fab.* Scarborough, larvæ plentiful on *Luzula pilosa* (*T.W.*); York (*Stainton's Manual*).

Elachista magnificella *Tengs.* Doncaster (*J. Hawley*); Sheffield (*A.D.*).

Elachista apicipunctella *Stn.* Huddersfield (*P.I.*); York (*Stainton's Manual*).

Elachista albifrontella *Hüb.* Flamborough Head (*E.H.*); Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); York ! (*T. Wilson*).

- Elachista atricomella** *Stn.* About *Dactylis glomerata*.
Doncaster (*W.W.*); Huddersfield (*P.I.*); Scarborough
(*T.W.*); York (*Stainton's Manual*).
- Elachista luticomella** *Zell.* Larva on *Dactylis glomerata*.
Flamborough Head (*E.H.*); Huddersfield (*P.I.*);
Scarborough (*T.W.*); York (*Stainton's Manual*).
- Elachista Kilmunella** *Stn.* Among *Carex* in boggy places.
Huddersfield (*P.I.*); Richmond (*J. Sang*); Scar-
borough (*T.W.*).
- Elachista cinereopunctella** *Haw.* Among *Carex glauca*.
Huddersfield (*P.I.*); Scarborough !! (*T.W.*); York !
(*Stainton's Manual*).
- Elachista trapeziella** *Stn.* Scarborough, among *Luzula*
pilosa (*T.W.*); on the Yorkshire side of Barnard Castle
(*J. Sang*).
- Elachista stabilella** *Stn.* Scarborough (*T.W.*).
- Elachista nigrella** *Hüb.* Huddersfield (*P.I.*); Scarborough !!
(*Stainton's Manual*); York ! (*Stainton's Manual*).
- Elachista subnigrella** *Dougl.* Scarborough ! (*Stainton's*
Manual).
- Elachista perplexella** *Stn.* = *humiliella* *Zell.* Scarborough,
larva in leaves of *Aira cæspitosa* (*T.W.*).
- Elachista Bedellella** *Sircom.* Huddersfield (*P.I.*); Scar-
borough ! (*T.W.*).
- Elachista subobscurella** *Dbl.* Doncaster (*W.W.*); Hud-
dersfield (*P.I.*); Richmond (*J. Sang*); Scarborough !
(*Stainton's Manual*); York ! (*Stainton's Manual*).
- Elachista Gangabella** *Fisch.* York (*Stainton's Manual*).
- Elachista tæniatella** *Stn.* Scarborough, plentiful on *Brachy-*
podium sylvaticum (*T.W.*).
- Elachista megerlella** *Zell.* Scarborough !! (*Stainton's*
Manual); York (*Stainton's Manual*).

Elachista adscitella *Stn.* Scarborough (*T.W.*); York (*Stainton's Manual*).

Elachista cerussella *Hüb.* Scarborough !! (*Stainton's Manual*); York (*T. Wilson*).

Elachista rhyncosporella *Stn.* Richmond (*J. Sang*); Scarborough !! (*Stainton's Manual*); York ! (*Stainton's Manual*).

Elachista eleochariella *Stn.* Scarborough, on cotton-grass (*T.W.*); York (*Stainton's Manual*).

Elachista biatomella *Stn.* Scarborough, on *Carex glauca* (*T.W.*).

Elachista serricornella *Logan.* Scarborough (*T.W.*).

Elachista triatomella *Haw.* Flamborough Head (*E.H.*); Richmond (*J. Sang*); Scarborough, common about fescue-grass (*T.W.*); York (*R. Hind*).

Elachista collitella *Fisch.* = *subocellea* *Steph?* Scarborough (*Stainton's Manual*).

Elachista pollinariella *Zell.* Larvæ in leaves of *Brachypodium sylvaticum*.

Richmond (*J. Sang*); Scarborough !! (*T.W.*).

Elachista rufocinerella *Haw.* Abundant no doubt everywhere among grass.

Doncaster (*W.W.*); Huddersfield ! (*G.T.P.*); Richmond (*J. Sang*); Wakefield !! (*G.T.P.*).

Elachista subochreella *Dbl.* = *ochreella* *Stn.* Richmond (*J. Sang*); York ! (*Stainton's Manual*).

Elachista cygnipennella *Hüb.* Abundant probably everywhere.

Doncaster (*W.W.*); Flamborough Head (*E.H.*); Huddersfield !! (*G.T.P.*); Richmond (*J. Sang*); Scarborough ! (*G.T.P.*); Sheffield (*A.D.*); York ! (*T. Wilson*).

Tischeria complanella *Hüb.* Larva feeds in oak leaves.

Doncaster (*W.W.*); Harrogate (*J. Sang*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); York (*T. Wilson*).

Tischeria emyella *Dup.=marginea* *Haw.* Larva in leaves of bramble.

Doncaster (*W.W.*); Scarborough (*Stainton's Manual*); Sheffield (*A.D.*); York (*Stainton's Manual*).

Tischeria angusticoella *Heyd.* Sheffield (*A.D.*).

Lithocolletis roborella *Zell.* Larva in a large mine in oak leaves.

Doncaster (*W.W.*); Huddersfield (*P.I.*); Richmond (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); York (*T. Wilson*).

Lithocolletis amyotella *Dup.* Richmond (*J. Sang*); Scarborough (*T.W.*); York (*Stainton's Manual*).

Lithocolletis quinqueguttella *Stn.* Larva in leaves of dwarf willow.

Scarborough (*T.W.*); York (*P.I., Naturalist*, 1864).

Lithocolletis irradiella *Scott=Lautella* *Zell.* var. Larva in oak leaves.

Scarborough (*T.W.*); York (*Stainton's Manual*).

Lithocolletis Bremiella *Zell.* Scarborough (*T.W.*).

Lithocolletis vacciniella *Scott.* Larva feeds on *Vaccinium vitis-idaea*.

Harrogate! (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.* and *W.W.*).

Lithocolletis pomifoliella *Zell.* Among hawthorn and apple; a common species.

Doncaster, also the variety *mespilella* (*W.W.*); Harrogate (*J. Sang*); Huddersfield (*P.I.*); Richmond (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York ! (*Stainton's Manual*).

Lithocolletis corylella *Nicelli*. Larva in hazel leaves.

Edlington Wood (*W.W.*); Harrogate !! (*J. Sang*);
 Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*);
 Sheffield (*A.D.*); York ! (*Stainton's Manual*).

Lithocolletis spinicolella *Zell.* Among blackthorn.

Harrogate (*J. Sang*); Hexthorpe near Doncaster
 (*W.W.*); Richmond !! (*J. Sang*); Scarborough (*T.W.*);
 Sheffield (*A.D.*); York (*T. Wilson*).

Lithocolletis faginella *Mann.* Among beech.

Doncaster (*W.W.*); Harrogate (*J. Sang*); Hudders-
 field (*P.I.*); Richmond !! (*J. Sang*); Scarborough ! (*Stain-
 ton's Manual*); Sheffield (*A.D.*); York ! (*T. Wilson*).

Lithocolletis salicicolella *Sircom.* Among willow.

Doncaster (*W.W.*); Scarborough (*T.W.*).

Lithocolletis viminetella *Stn.* Scarborough (*T.W.*).**Lithocolletis ulmifoliella** *Hüb.* Among birch.

Doncaster (*W.W.*); Harrogate !! (*J. Sang*); Hud-
 dersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough !!
 (*Stainton's Manual*); York ! (*Stainton's Manual*).

Lithocolletis spinolella *Dup.* Doncaster (*W.W.*); Hud-
 dersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough !!
 (*Stainton's Manual*); York ! (*Stainton's Manual*).**Lithocolletis quercifoliella** *Fisch.* Among oak.

Doncaster (*W.W.*); Harrogate !! (*J. Sang*); Hud-
 dersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough !!
 (*Stainton's Manual*); York ! (*T. Wilson*).

Lithocolletis Messaniella *Zell.* Among oaks, &c.

Bramham (*J. Sm.*); Doncaster (*W.W.*); Hudders-
 field (*P.I.*); Scarborough (*Stainton's Manual*); York !
 (*T. Wilson*).

Lithocolletis corylifoliella *Haw.* Among hawthorn.

Doncaster (*W.W.*); Harrogate ! (*J. Sang*); Hudders-
 field (*P.I.*); Scarborough (*P.I.*); York ! (*Stainton's
 Manual*).

Lithocolletis Caledoniella *Stn.* Also among hawthorn.
Mr. Sang says this species is a variety of *L. corylifoliella*.

Doncaster (*W.W.*); Richmond (*J. Sang*); Scarborough !! (*T.W.*); York (*Stainton's Manual*).

Lithocolletis viminiella *Sircom.* Among willow.

Scarborough !! (*Stainton's Manual*); York (*Stainton's Manual*).

Lithocolletis alnifoliella *Hüb.* Among alder.

Blubberhouses (*Lord Walsingham*); Doncaster (*W.W.*); Harrogate !! (*J. Sang*); Huddersfield (*P.I.*); Maltby (*H. T. Stainton, Zool.*, 1848, p. 2273); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York ! (*Stainton's Manual*).

Lithocolletis Heegeriella *Zell.* Among oak.

Huddersfield (*P.I.*); Scarborough (*T.W.*); York (*Stainton's Manual*).

Lithocolletis Cramerella *Fab.* Among oak.

Doncaster (*W.W.*); Harrogate !! (*J. Sang*); Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York ! (*T. Wilson*).

Lithocolletis acerifoliella *Zell.=sylvella* *Haw.* Among maple.

Harrogate ! (*J. Sang*); Hexthorpe near Doncaster (*W.W.*); Huddersfield (*Hobkirk's History of Huddersfield*); Scarborough !! (*T.W.*); York (*Stainton's Manual*).

Lithocolletis emberizæpennella *Bouch.* Doncaster (*W.W.*); Huddersfield (*P.I.*); Scarborough (*T.W.*); York ! (*Stainton's Manual*).

Lithocolletis Frolichiella *Zell.* Among alder.

Harrogate ! (*J. Sang*); Hexthorpe near Doncaster (*W.W.*); Scarborough (*T.W.*); York ! (*Stainton's Manual*).

Lithocolletis Dunningiella *Stn.* Huddersfield (*P.I.*);
Scarborough (*T.W.*); York (*Stainton's Manual*).

Lithocolletis Nicelliella *Zell.* Among hazel.

Edlington Wood near Doncaster (*W.W.*); Harrogate !! (*J. Sang*); Richmond !! (*J. Sang*); Scarborough (*T.W.*).

Lithocolletis Stettinella *Nicelli.* Among alder.

Harrogate (*J. Sang*); Scarborough !! (*Stainton's Manual*); York (*P.I., Naturalist*, 1865).

Lithocolletis Klemannella *Fab.* Harrogate (*J. Sang*);
Scarborough (*Stainton's Manual*).

Lithocolletis Schreberella *Fab.* Among elm.

Doncaster (*W.W.*); Scarborough (*T.W.*).

Lithocolletis insignitella *Zell.* Scarborough, common on
Trifolium medium (*T.W.*).

Lithocolletis tristrigella *Haw.* Among elm.

Richmond !! (*J. Sang*); Scarborough (*Stainton's Manual*).

Lithocolletis trifasciella *Haw.* Among honeysuckle.

Doncaster (*W.W.*); Huddersfield (*P.I.*); Richmond ! (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); York (*Stainton's Manual*).

Lyonetia Clerckella *L.* Doncaster (*W.W.*); Harrogate ! (*J. Sang*); Richmond ! (*J. Sang*); Scarborough !! (*Stainton's Manual*); York ! (*T. Wilson*).

Cemiostoma spartifoliella *Hüb.* Among broom.

Scarborough ! (*T.W.*); Sheffield (*A.D.*); York ! (*Stainton's Manual*).

Cemiostoma laburnella *Heyd.* Among laburnum.

Bramham (*J.Sm.*); Doncaster (*W.W.*); Sheffield (*A.D.*); York ! (*W.P.*).

Cemiostoma orobella *Stn.* First discovered as new to science by Mr. T. Wilkinson, in 1867. He bred it from larvae found feeding in the leaves of *Orobis tuberosus* at Scarborough (*Ent. Ann.*, 1870, p. 158).

Cemiostoma scitella *Zell.* Among hawthorn.

Doncaster (*W. W.*); Richmond !! (*J. Sang*); Scarborough (*Stainton's Manual*); Sheffield (*A. D.*); York ! (*Stainton's Manual*).

Cemiostoma lotella *Stn.* Another species first discovered as new by Mr. T. Wilkinson. He found it in 1858 on *Lotus major* on Cloughton Moor, near Scarborough, and since then it has been collected there in plenty.

Opostega crepusculella *Fisch.* Scarborough !! (*Stainton's Manual*); York ! (*Stainton's Manual*).

Bucculatrix aurimaculella *Stn.* Among *Chrysanthemum leucanthemum*.

Hexthorpe near Doncaster !! (*W. W.*); Scarborough !! (*T. W.*); York (*Stainton's Manual*).

Bucculatrix cidariella *Fisch.* Among alder.

Scarborough (*T. W.*); York ! (*Stainton's Manual*).

Bucculatrix ulmella *Mann.* Among oak.

Doncaster (*W. W.*); Scarborough (*T. W.*); York (*Stainton's Manual*).

Bucculatrix cratægifoliella *Dup.* Among hawthorn.

Doncaster !! (*W. W.*); Scarborough (*Stainton's Manual*); York (*Stainton's Manual*).

Bucculatrix Demaryella *Dup.* Among birch.

Scarborough (*T. W.*).

Bucculatrix Boyerella *Dup.* Larva feeds on elm.

York (*Stainton's Manual*).

Bucculatrix cristatella *Fisch.* Scarborough, common on yarrow (*T. W.*).

Nepticula atricapitella *Haw.* Larva lives in galleries in oak leaves.

Doncaster (*W.W.*); Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); York (*R. Hind, Ent. Mo. Mag.*, i. 217).

Nepticula ruficapitella *Haw.* Generally distributed and common. Occurs probably wherever *N. atricapitella* is found.

Doncaster !! (*W.W.*); Richmond !! (*J. Sang*).

Nepticula anomalella *Goe.* Among rose.

Doncaster (*W.W.*); Richmond !! (*J. Sang*); Scarborough !! (*T.W.*); York (*R. Hind, Ent. Mo. Mag.*, i. 217).

Nepticula perpygmæella *Dbl.* = *pygmæella* *Haw.* Among hawthorn.

Doncaster (*W.W.*); Harrogate !! (*J. Sang*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York (*W.P.*).

Nepticula pomella *Vaughan.* Richmond !! (*J. Sang*); Scarborough, on crab-apple (*T.W.*); York (*W.P.*).

Nepticula oxyacanthæcolella *Dbl.* Doncaster (*W.W.*); Richmond ! (*J. Sang*); Scarborough !! (*Stainton's Manual*); York (*W.P.*).

Nepticula viscerella *Dougl.* Richmond, rare (*J. Sang*).

Nepticula catharticella *Stn.* Among *Rhamnus catharticus*. Scarborough ! (*T.W.*); York (*Stainton's Manual*).

Nepticula septembrella *Stn.* Among *Hypericum*.

Edlington Wood near Doncaster (*W.W.*); Richmond ! (*J. Sang*); Scarborough (*T.W.*).

Nepticula lapponicella *Wocke.* Larvæ feed in mines in birch leaves.

At Scarborough by Mr. T. Wilkinson (*E. Shuttleworth, Entom., June, 1882, p. 126*).

Nepticula cryptella *Frey*. Scarborough, among *Lotus corniculatus* (*T. W.*). Mr. Wilkinson used to take a spotted form of this species which he mistook for *N. Headleyella* Stainton.

Nepticula Weaverella *Dougl.* Scarborough, common about whortleberry (*T. W.*); Sheffield (*A. D.*).

Nepticula subbimaculella *Haw.* Among oak.

Doncaster (*W. W.*); Richmond !! (*J. Sang*); Scarborough (*T. W.*); Sheffield (*A. D.*); York (*R. Hind*, *Ent. Mo. Mag.*, i. 217).

Nepticula argyropezella *Zell.* Sheffield (*Zool.*, vii. 1649); Mr. T. Wilson found larvæ in aspen at York in 1879, from which he bred imagos the following year (*Ent. Mo. Mag.*, xvi. 211).

Nepticula trimaculella *Haw.* Balby near Doncaster (*W. W.*); Scarborough (*T. W.*); York (*Stainton's Manual*).

Nepticula floslactella *Haw.* Among hazel.

Doncaster (*W. W.*); Harrogate !! (*J. Sang*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); York (*R. Hind*).

Nepticula sorbiella *Stn.* First discovered as new to science by Mr. T. Wilkinson, in 1860: he bred it from mountain ash at Scarborough. Since then Mr. Sang has found it in abundance at Richmond.

Nepticula salicivorella *Dbl.=salicis* *Stn.* Among willow.

Doncaster (*W. W.*); Harrogate !! (*J. Sang*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); York (*R. Hind*).

Nepticula myrtillella *Edl.* Among bilberry.

Blubberhouses (*Lord Walsingham*); Richmond !! (*J. Sang*); Scarborough !! (*T. W.*); Sheffield (*A. D.*).

Nepticula microtheriella *Wing.* Among hazel.

Doncaster !! (*W.W.*); Harrogate !! (*J. Sang*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York (*T. Wilson*).

Nepticula betulicolella *Stn.* Richmond ! (*J. Sang*); Sheffield (*A.D.*).

Nepticula ignobilella *Stn.* Among hawthorn.

Doncaster (*W.W.*); Scarborough (*T.W.*); York (*R. Hind*).

Nepticula aucupariella *Frey.* Richmond ! (*J. Sang*).

Nepticula argentipedella *Zell.* Doncaster (*W.W.*); Harrogate !! (*J. Sang*); Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough !! (*T.W.*); York (*Stainton's Manual*).

Nepticula plagicolella *Stn.* Doncaster (*W.W.*); Richmond (*J. Sang*); Scarborough !! (*J. Sang*).

Nepticula tityrella *Doughl.* Doncaster (*W.W.*); Richmond !! (*J. Sang*); Scarborough !! (*Stainton's Manual*); York (*R. Hind*).

Nepticula malella *Stn.* Among wild apple.

Doncaster (*W.W.*); Scarborough (*R. Hind*).

Nepticula angulifasciella *Stn.* Among wild rose.

Doncaster (*W.W.*); Richmond !! (*J. Sang*); Scarborough ! (*T.W.*); York (*R. Hind*).

Nepticula atricolella *Stn.* Doncaster (*W.W.*); York (*R. Hind, Ent. Mo. Mag., i. 217*).

Nepticula arcuosella *Frey.* Among strawberry.

Richmond (*J. Sang*); Scarborough !! (*T.W.*).

Nepticula gratosella *Stn.* Huddersfield (*P.I.*); Scarborough (*T.W.*); York (*R. Hind, Ent. Mo. Mag., i. 217*).

Nepticula marginecolella *Stn.* Doncaster (*W.W.*); Richmond (*J. Sang*); York (*R. Hind*).

Nepticula alnetella *Stn.* Among alder.

Harrogate (*J. Sang*); Scarborough (*T. W.*); York (*Stainton's Manual*).

Nepticula glutinosella *Stn.* First discovered as new to science by Mr. T. Wilkinson, who found the larvæ mining alder leaves at Scarborough, in the autumn of 1856, and from them bred imagoes in 1857. Since then Mr. J. Sang has taken it at Harrogate, and Mr. P. Inchbald also records it from York.

Nepticula aurella *Fab.* Among bramble; a common species.

Doncaster (*W. W.*); Harrogate!! (*J. Sang*); Huddersfield (*P. I.*); Richmond!! (*J. Sang*); Scarborough!! (*Stainton's Manual*); Sheffield (*A. D.*); York (*R. Hind*).

Nepticula luteella *Stn.* Among birch.

Doncaster (*W. W.*); Harrogate! (*J. Sang*); Richmond! (*J. Sang*); Scarborough (*T. W.*); York (*P. I.*).

Nepticula regiella *Frey.* Scarborough (*T. W.*); York (*Scientific Opinion*, 1869, ii. 36).

Trifurcula squamatella *Stn.* Scarborough (*T. W.*).

Trifurcula immundella *Zell.* Scarborough, common among broom (*T. W.*).

Trifurcula pulverosella *Stn.* Scarborough, common among wild apple (*T. W.*).

Bohemannia quadrimaculella *Bohem.* Scarborough, among alder in July (*T. W.*).

PTEROPHORI.

Agdistes Bennettii *Curt.* I was so surprised at finding this species in the list, sent me by Mr. John Sang of Darlington, of species taken by himself at Redcar, that I wrote to ask for further particulars. Mr. Sang replied as follows:—"I took an *Agdistes Bennettii* on the sandhills at Redcar, and have repeatedly looked for it since without success. *Statice limonium* does grow in the neighbourhood, but several miles from where I took the moth. I looked very closely for larvæ this summer (1881) without success, so it is quite a mystery how it got there."

Pterophorus dichrodactylus *Muhlig.* I took a specimen of this species from tansy in my own garden at Highroyd, Huddersfield, in August, 1876, which seems to be the only recorded occurrence in the south West Riding.

Scarborough, common among tansy (*T.H.*); York (*Stainton's Manual*).

Pterophorus Bertrami *Röss.* Larva feeds on *Achillea millefolium*.

Hexthorpe near Doncaster (*W.W.*); one at Staddlethorpe near Howden, by Mr. W. Prest, in 1877.

Pterophorus gonodactylus *Schiff.* = *trigonodactylus* *Haw.* Not uncommon among coltsfoot (*Tussilago farfara*).

Bishop's Wood (*W.P.*); Bramham (*J. Sm.*); Flamborough Head (*E.H.*); Goole, in Sandhill Wood (*John Harrison*); Hexthorpe near Doncaster !! (*W.W.*); Huddersfield (*G.T.P.*); Scarborough (*T.H.*); Sheffield (*A.D.*); York ! (*T. Wilson*).

Pterophorus acanthodactylus *Hüb.* The larvæ of this species seem to be generally found on *Ononis arvensis* and *Stachys sylvatica*, but I have taken the imago at Huddersfield on ling (*Calluna vulgaris*), where I believe neither of the two former plants grew within a considerable distance.

Edlington Wood (*G.T.P.*); Huddersfield (*G.T.P.*); Richmond (*J. Sang*); Scarborough (*Stainton's Manual*); York, common at Sandburn (*W.P.*).

Pterophorus parvidactylus *Haw.* Stainton's Manual gives Scarborough as a locality, but I do not know that I have ever seen a Yorkshire specimen.

Pterophorus phæodactylus *Hüb.* Hobkirk's 'History and Natural History of Huddersfield' gives this species as having been taken at that place, but I think this is most probably an error.

Pterophorus serotinus *Zell.* = **bipunctidactylus** *Haw.* Plentiful in old pastures, &c., where its foodplant (*Scabiosa*) grows freely. In some old rough fields adjoining Lepton Great Wood, Huddersfield, it occurs in great profusion, but within a radius of some miles round the town this is the only spot I know where it can be found. On this ground in 1882 I took it continuously on the wing from June 12th to October 14th, thus showing the imago to be out for over four months.

Bramham (*J.Sm.*); Edlington Wood ! (*G.T.P.*); Flamborough Head (*E.H.*); Grassington ! (*G.T.P.*); Huddersfield !! (*G.T.P.*); Redcar (*J. Sang*); Scarborough !! (*Stainton's Manual*); Sheffield (*A.D.*); York (*W.P.*).

Pterophorus plagiodactylus *Fisch.* Only recorded from Sandburn, York, by Mr. W. Prest, but I have no doubt it is often confused with the preceding species. I am quite satisfied myself indeed, and Mr. C. G. Barrett is of the same opinion, that it is merely a form, and a scarcely distinguishable form, of *P. bipunctidactylus*.

Pterophorus zophodactylus *Dup.* = **Loewii** *Zell.* Larvæ on flowers of *Erythræa* early in August.

Bramham (*J.Sm.*); Sandburn, York, in 1877, rare (*W.P.*).

Pterophorus pterodactylus *L.=fuscodactylus* *Harw.*

The larva feeds on buds of *Veronica chamædrys*.

Boroughbridge (*W.P.*); Bramham (*J.Sm.*); Doncaster (*W.W.*); Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough (*Stainton's Manual*); Sheffield (*A.D.*); York !! (*W.P.*).

Pterophorus lithodactylus *Tr.* This species was first discovered as British at Doncaster, in 1844, by the Rev. G. Preston (*Zool.*, 1845, iii. 844 and 1006). The larva feeds on fleabane (*Inula dysenterica*).

Other localities are Flamborough Head (*E.H.*); Redcar !! (*J. Sang*); Scarborough !! (*T.W.*); York (*Stainton's Manual*).

Pterophorus monodactylus *L.=pterodactylus* *Hüb.*

The larva feeds on convolvulus.

Doncaster (*W.W.*); Huddersfield (*G.T.P.*); Marsden Moors (*G.T.P.*); Scarborough (*Stainton's Manual*); York (*Stainton's Manual*).

Pterophorus tephrodactylus *Hüb.* Larva feeds on golden rod (*Solidago virgaurea*).

Huddersfield (*P.I.*); Scarborough (*T.W.*); Sheffield (*A.D.*).

Pterophorus osteodactylus *Zell.* Also a golden-rod feeder.

Huddersfield (*S.L.M.*); Scarborough !! (*T.W.* and *G.T.P.*); Sheffield (*A.D.*).

Pterophorus microdactylus *Hüb.* Scarborough, plentiful among *Eupatorium cannabinum* (*T.W.*).

Pterophorus tetradactylus *L.* Larva on thyme.

Doncaster (*W.W.*); Richmond !! (*J. Sang*); Scarborough (*T.W.*); York (*Stainton's Manual*).

Pterophorus pentadactylus *L.* Widely distributed and generally common. The larva feeds on convolvulus.

Bramham (*J.Sm.*); Doncaster (*W.W.*); Goole (*J. Harrison*); Huddersfield (*G.T.P.*); Market Weighton (*W.P.*); Scarborough (*T.W.*); Selby (*K.R.*); Sheffield (*A.D.*); Wakefield !! (*G.T.P.*); York ! (*W.P.*).

ALUCITINA.

Alucita polydactyla *Hüb.* Larvæ feed in flowers of honeysuckle. Mr. W. Prest says the imago is often found hibernating in outhouses.

Bishop's Wood (*G.T.P.*); Bramham (*J.Sm.*); Doncaster (*W.W.*); Huddersfield (*P.I.*); Richmond !! (*J. Sang*); Scarborough (*T.W.*); Sheffield (*A.D.*); York ! (*W.P.*).

APPENDIX.

During and since the passage of the list through the press, six additional species and a number of fresh localities have come to hand. I give the former and a selection from the latter.

ADDITIONAL SPECIES.

Chesias obliquaria *W.V.* Whilst Mr. George Tindall was setting some captures rather late in the evening of June 14th, 1883, a fine fresh specimen flew into his house at Doncaster, through the open window (see the *Naturalist*, ix. 36).

Scoparia atomalis *Dbl.* This species was taken by Mr. E. P. P. Butterfield, at Blackhills, near Bingley, in July, 1883 (see *Nat.*, ix. 89). I fancy I have seen it repeatedly in the moorland districts of the West Riding, but I have always regarded the specimens as a small form of *S. ambigualis*, from which species there is indeed considerable doubt as to its distinctness.

Mixodia rubiginosana *H.S.* Mr. W. Prest informs me that he took a specimen of this rarity at Sandburn, York, in 1883.

Sciaphila perterana *Gn.* Taken by myself in July, 1883, near Beaumont Park, Huddersfield (*G.T.P.*). Also taken at Bingley (*E.P.P.B.*).

Tinea merdella *Zell.* This insect occurred in thousands in July, 1883, about a lot of wool which had lain for two years in my firm's warehouse in New Street, Huddersfield.

Gelechia gemmella *L.* This pretty species I found flying in abundance, in September, 1883, in the rough field adjoining Lepton Great Wood, Huddersfield.

ADDITIONAL LOCALITIES, &c.

Erebia Blandina. Taken at Buckden, in Upper Wharfedale, by Mr. Trevor Basil Woodd, through whose kindness I have seen specimens.

Chortobius Davus. The Thorne Moor specimens pertain to the var. *Rothliebii Staud.*

Larentia ruficinctata. Mr. Trevor Basil Woodd informs me that he has captured several specimens about Oughtershaw, in Upper Wharfedale, at an elevation of 1200 feet above sea level, and he kindly forwarded me specimens for examination.

Larentia olivata. Found commonly in Grass Wood, Upper Wharfedale, early in August (*E.P.P.B.*).

Coremia unidentaria. Threshfield, in Upper Wharfedale, August, 1883 (*E.P.P.B.*).

Dicranura furcula. Larvæ common at Strensall, York (*W. Hewett*).

Miana expolita. Early in August Mr. E. P. P. Butterfield searched for and again took this species in Grass Wood, Upper Wharfedale.

Agrotis valligera. Fairly common at Sandburn, near York, this year (*R. Dutton, Entom., Sep. 1883, p. 209*).

Tethea subtusa. On June 2nd I found larvæ on the poplars in the Green Farm Wood, near Doncaster (*G.T.P.*).

Paraponyx stratiotalis. Found in abundance at Frizinghall, near Bradford (*J. W. C.*).

Scoparia conspicalis. Mr. E. P. P. Butterfield took a specimen in June, 1883, in Grass High Wood, Upper Wharfedale, which was named for him by Mr. Barrett. This confirms my surmise that I saw it in Aug. 1882, when the Y.N.U. visited Grass Wood (see *Nat., N.S. viii.*

p. 27). Mr. Butterfield also took a fine specimen at Wilsden, near Bingley, in 1883. It would thus seem as if the species were well distributed in the county.

Crambus pinetellus. Among the interesting fresh localities which this year 1883 has produced may be cited Doncaster for the present species. On the evening of Aug. 4th, Mr. George Tindall found it flying in great plenty in the Green Farm Wood. This is the wood alluded to at p. 2 by Mr. Warren, and where indeed, except when otherwise stated in the List, most of his Doncaster captures were made. Previously *C. pinetellus* had only been recorded from Sheffield in our county.

Penthina ochromelana. Found commonly at Wakefield, June 7th, 1883 (*G.T.P.*).

Penthina sauciana. On the 6th August I noticed it flying rather commonly on the bilberry hills at Otley Chevin (*G.T.P.*).

Cnephasia lepidana. Harden Moor, near Bingley (*J.W.C.* and *E.P.P.B.*).

Sphaleroptera ictericana. York (*T. Wilson*); Bingley (*J.W.C.* and *E.P.P.B.*).

Grapholitha geminana. Abundant, Harden Moor and Black Hills, near Bingley (*J.W.C.* and *E.P.P.B.*).

Pœdisca ophthalmicana. Shipley Glen (*J. Firth*).

Pœdisca semifusca. Bingley (*E.P.P.B.*); Otley (*G.T.P.*).

Pœdisca sordidana. Bingley (*E.P.P.B.*).

Pamplusia monticolana. Common, Rombalds Moor, Harden Moor, and Black Hills, near Bingley, and at Ingleborough (*J.W.C.* and *E.P.P.B.*). Previously only reported from Scarborough.

Stigmonota coniferana. Bingley (*E.P.P.B.*).

Dicrorampha herbosana. Grass High Wood, 1883 (*J.A. Butterfield*). Also taken by him near Bingley !

Micropteryx unimaculella. Shipley Glen (*J. Firth*).

Plutella porrectella. Bingley (*E.P.P.B.* and *J.W.C.*).

Hypolepia sequella. Bingley (*E.P.P.B.*).

Gelechia desertella. Huddersfield (*G.T.P.*). New to the south West Riding.

Gelechia similella. Taken on Crosland Moor, near Huddersfield, in July, 1883 (*G.T.P.*).

Argyresthia Andereggiella. Bingley (*E.P.P.B.*). Previously only reported from Bramham.

Elachista megerlella. Bingley (*E.P.P.B.* and *J.W.C.*).

Since the table was printed at p. 5, the changes which have been made during the progress of the list—both by addition and by subtraction—render it advisable to reproduce it. The lists include 1341 known Yorkshire species out of the 2032 considered as British, as follows :

	Yorkshire.	British.
Diurni	48	out of 64
Nocturni	80	„ 112
Geometræ	207	„ 278
Drepanulæ	3	„ 6
Pseudo-Bombyces	19	„ 27
Noctuæ	224	„ 309
Deltoides... ..	8	„ 14
Aventiæ	1	„ 1
Pyalides... ..	47	„ 75
Crambites	39	„ 80
Tortrices	203	„ 334
Tineina	443	„ 700
Pterophorina	18	„ 31
Alucitina	1	„ 1
Total	1341	2032

Several species included in the List are probably not really indigenous to the county. There can be no doubt, I think, that *Bombyx neustria*, although recorded from three localities, was in every case introduced from the South. The eggs being deposited in rings around the twigs of fruit and other trees, would thus be easily conveyed from Southern nurseries. *Sesia myopæformis* was probably taken to Sheffield in apple trees ; and *Eupithecia sobrinata* to York on junipers in the same way ; and possibly the presence of several other species in unlikely localities may be thus accounted for.

In conclusion, I must again express my thanks to Messrs. William Warren of Cambridge, and John Sang of Burton-on-Trent (formerly of Darlington) for the trouble and care they have taken in going over the proof sheets of the Tortrices and Tineæ ; without their assistance several errors in these two orders would inevitably have crept in.

G. T. PORRITT.

HUDDERSFIELD,
December, 1883.

INDEX OF GENERA.

Doubleday's nomenclature is adopted in the foregoing list ; but, with a view of rendering this Index more useful, the genera adopted in Stainton's Manual are inserted as synonyms, where they differ from those used by Doubleday.

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SUPPLEMENT.

SUPPLEMENT

CONTAINING ADDITIONAL RECORDS, NEW SPECIES AND
LOCALITIES, AND NOTES ON VARIATION, ETC.

GEORGE T. PORRITT, F.L.S., F.E.S.

Ex-President of the Yorkshire Naturalists' Union.

* An asterisk is prefixed to the name of each species recorded as
New to the County List.

DIURNI.

Gonepteryx rhamni *L.* Widely distributed, but apparently not nearly so common as my former record would lead one to suppose.

Colias edusa *Fab.* Many new localities are recorded, and, in 1890, it was quite common in the eastern portion of the county.

Colias hyale *L.* Along with *C. edusa*, there was apparently an invasion of this species in 1900: the localities included Beverley (*J.R.L.*); Bridlington (*H.H.C.*); Hull (*C.C.*).

Argynnis paphia *L.* Edlington Wood in 1901 (*H.H.C.*); Great Ayton (*W.H.*); Helmsley! (*S.W.*).

Argynnis aglaia *L.* Grassington (*F.B.*); Helmsley (*A.A.*); Ingleby Greenhow (*T.A.L.*); Kirby Moorside (*A.A.*).

Argynnis adippe *Fab.* "One at Birdwell, near Penistone, by Mr. Dyson, of Hoyland, in 1901" (*A.W.*); "one at New Park Spring Wood, Cudworth, in 1901" (*A.W.*); Wadworth Wood, Doncaster, one in 1901 (*L.S.B.*); Great Ayton (*W.H.*).

Argynnis euphrosyne L. Common at Levisham in 1895 (Y.N.U.).

Argynnis selene Fab. Castle Howard (J. Hawkins); Ingleby Greenhow (F.E.); Strensall, York, abundant in 1902 (F. Emsley).

Melitæa artemis Fab. "Larvæ formerly common on Rawdon Common, Towthorpe, near York" (G.J.).

Vanessa C-album L. Helmsley (A.A.).

Vanessa urticæ L. Apparently becoming much more common in the South West Riding (G.T.P. and B.M.). The late Mr. G. C. Dennis bred specimens of a peculiar smoky form from York larvæ in 1895, possibly the same form which Mr. S. L. Mosley recorded from Bradford. (See previous List, p. 10).

Vanessa polychloros L. Helmsley; "two captured and others seen in 1901" (A.A.).

Vanessa antiopa L. Four specimens are recorded since the previous list; one at Huddersfield on October 31st, 1899, by Master Arthur Clive Crosland; one at Middlesbrough (R. G. Clayton); one at Beedale, near Scarborough, August 9th, 1897, and one on Oliver's Mount, Scarborough, September 10th, 1899 (J.H.R.).

Arge galathea L. This species, which, at the time the previous list was written, we believed to be extinct in the county, has evidently occurred at Sledmere for many years. A specimen, which I saw alive, was taken there by Mr. William Hewett, on the Y.N.U.'s Excursion, August 3rd, 1891, and the same day the Rev. E. Maule Cole, M.A., showed me a series taken on the same spot many years previously. At the Annual Meeting of the Y.N.U. at Hull, on December 10th, 1902, Mr. Reginald H. Barker exhibited a beautiful series taken in the same district in 1902. Mr. Barker has also recorded a speci-

men as taken close to Scarborough by Mr. W. H. Head, at the end of July, 1901; and Mr. Hubert B. Drew, one at Sleightholmdale, near Helmsley, also in July, 1901. Lastly, Mr. Harold J. Burkill records (Entomologist, Jan. 1903, p. 21) that from August 5th to September 8th, 1902, he saw the species in three localities within easy distance of York; in one spot he saw over sixty and netted a dozen of them.

Erebia blandina *Fab.* Still abundant at Grassington in 1903 (*G.T.P.*).

Satyrus ægeria *L.* Sledmere (*G.T.P.*).

Satyrus semele *L.* Grassington (*F.B.*); Kirby Moorside (*A.A.*).

Satyrus tithonus *L.* Wheatley Wood, Doncaster (*H.H.C.*); Everingham (*C.D.A.* and *W.H.*); Grassington (*F.B.*); Thorne! (*F. Emsley*).

Satyrus hyperanthus *L.* Castle Howard!! and the variety *lanceolata* not unfrequent (*G.T.P.*); Helmsley!! (*J.W.C.*); Kirby Moorside, "some with the ringlets scarcely discernible" (*I.N.U.*, Nat., Oct. 1893); Sledmere!! (*G.T.P.*); Strensall, near York! (*W.M.*).

Chortobius davus *Fab.* Near Glaisdale (*T.A.L.*); a curious form taken by Mr. Trevor Basil Woodd in Langstrothdale, "exactly what one would expect a hybrid between *C. davus* and *C. pamphilus* to be" (Nat., Oct. 1883, p. 53); Pickering! (*John Braim*).

Thecla rubi *L.* Barden Moor, Wharfedale (*E.P.P.B.*); Battersby-in-Cleveland (*T.A.L.*); Glaisdale!! May, 1901 (*T.A.L.*); Helmsley!! (*F. Emsley*); Skelmanthorpe, Huddersfield, "scarce" (*B.M.*).

Thecla quercus *L.* Forge Valley, Scarborough, in August, 1901, by Mr. W. H. Head (*R.H.B.*).

Thecla W-album Illig. Wheatley Wood, Doncaster, larvæ in profusion in 1901 (*G.T.P.*); Helmsley (*S.W.*); Kilton Woods, Cleveland (*T.A.L.*).

Polyommatus phlæas L. Mr. Samuel Walker has taken two more specimens of the variety *schmidtii* Gerh.; one at Sandburn, York, in 1881, the other near Thirsk in 1901.

Lycæna agestis W.V. Gormire (*N.F.D.*); Grassington (*J.W.C.*); Redmire (*Y.N.U.*); Sledmere (*W.H.*).

Lycæna alexis Hüb. Skelmanthorpe, Huddersfield!! (*B.M.*).

Lycæna alsus Fab. East Keswick (*S.W.*). Wetherby!! (*B.B.T.*).

Lycæna argiolus L. Cudworth, one in 1898 (*A.W.*); Guyscliffe, near Pateley Bridge (*W.D.R.*); Cauklow Wood, near Rotherham!! (*L.S.B.*).

Thanaos tages L. Levisham, common in 1895 (*I.N.U.*); Strensall, York! (*S.W.*).

Hesperia comma L. Brantinghamthorpe, "taken by Mr. Stather, of Hull" (*W.H.*).

Hesperia linea Fab. Thorne!! (*G.T.P.*).

NOCTURNI.

Smerinthus ocellatus L. Doncaster (*H.H.C.*); Everingham!! (*J. Sumner*); Market Weighton (*W.H.*); Skipwith (*C.D.A.*).

Acherontia atropos L. A number of fresh localities are recorded representing all parts of the county. Continues to be still common in the Goole and neighbouring districts.

Sphinx convolvuli *L.* New localities are also recorded for this species. That specially interesting was the capture of five full-fed larvæ on *Convolvulus arvensis* at Monkton, seven miles from Barnsley, on August 30th and September 2nd, 1901, by Mr. Arthur Whitaker, who wrote me that from the appearance of the plant fully a dozen larvæ must have been feeding there (see Nat. and E.M.M. of October, 1901).

Sphinx ligustri *L.* Ingleby Greenhow, in 1900 (*F.E.*).

* **Sphinx pinastri** *L.* Mr. T. Ashton Lofthouse informs me that a specimen was taken in a garden at Linthorpe, Middlesbrough, in the summer of 1900; he has seen the specimen and there is no doubt as to the genuineness of the capture.

Deilephila galii *W.V.* We have four more records for this beautiful moth. One at Harrogate, July 26th, 1888 (*B.B.T.*); one at Manningham, Bradford, July 22nd, 1888 (*J.W.C.*); one at Scarborough, July 19th, 1888; and one at Sowerby Bridge, August 12th, 1889 (*Walter Copley*).

Chærocampa celerio *L.* A good specimen at Halifax on October 1st, 1892 (*E. Halliday*, Nat., Nov. 1892, p. 339).

Chærocampa porcellus *L.* Wheatley Wood, Doncaster (*G.T.P.*); Everingham! (*J. Sumner*); Hullbank (*Miss Haworth-Booth*); Skipwith!! (*C.D.A.*); York, in 1900 (*W.H.*).

Chærocampa elpenor *L.* Everingham (*J. Sumner*); Glaisdale (*T.A.L.*); Helmsley (*T.A.L.*); Skipwith (*C.D.A.*).

Macroglossa stellatarum *L.* There are numerous recent records for fresh localities all over the county.

Macroglossa fuciformis *L.* Wheatley Wood, Doncaster, in 1893 (*H.H.C.*, Nat., Dec. 1893, p. 369).

- Sesia culiciformis* L. Richmond, in June, 1890 (*W. Milburn*); Strensall Common, York, in 1900 (*S.W.*).
- Sesia tipuliformis* L. Middlesbrough (*T.A.L.*); Yarm-on-Tees (*T.A.L.*).
- Sesia sphegiformis* *W.V.* Mr. F. Emsley, jun., of Leeds, sent me for examination a fine specimen, which he took at Bishop's Wood, near Selby, "on an alder leaf," July 1st, 1894.
- Sesia bembeciformis* *Hüb.* Barnsley! (*A.W.*); Hull!! (*C.C.* and *W.J.P.*); Middlesbrough (*T.A.L.*); Skelmanthorpe! "larvæ in *salloze*" (*B.M.*); Withernsea (*J.P.*).
- Zeuzera æsculi* L. Not uncommon in the Barnsley district (*A.W.*); Balby, Doncaster (*H.H.C.*); Stanley, Wakefield (—, *Charles*); a pair on August 5th, 1903, at Skipwith, near Selby (*C.D.A.*).
- Cossus ligniperda* *Fab.* Everingham (*J. Sumner*); Great Ayton (*T.A.L.*).
- Hepialus hectus* L. Some of the females in the Huddersfield district are almost black (*G.T.P.*).
- Hepialus humuli* L. Very fine forms of the female are to be obtained by diligent collecting; one of my own Huddersfield examples is figured in Barrett's "Lepidoptera of the British Islands."
- Procris statices* L. Everingham!! (*J. Sumner*); Grassington! (*G.T.P.*); Great Ayton (*T.A.L.*); Thorne (*H.H.C.*); Strensall Common, York, in 1900 (*J. Hawkins*).
- Zygæna filipendulæ* L. Skelmanthorpe, Huddersfield (*B.M.*). Several very extraordinary varieties have occurred at Wakefield, one of which is in my own cabinet.

- Nola confusalis* H.-S. = *cristulalis* Hüb. Driffeld (*T.A.L.*); Sandsend, June 1903 (*T.A.L.*).
- Nudaria senex* Hüb. Wheatley Wood, Doncaster, in 1892 (*H.H.C.*).
- Lithosia mesomella* L. Wheatley Wood, Doncaster (*H.H.C.*); Skipwith Common (*C.D.A.*).
- Lithosia complanula* Bdv. Wheatley Wood, Doncaster! (*H.H.C.*); Everingham!! (*J. Sumner*); Skipwith (*C.D.A.*).
- Lithosia complana* L. Everingham, near York (*J. Sumner*).
- Deiopeia pulchella* L. "A fine specimen taken in Grave Hill Lane, Beverley, twenty years ago" (*W.H.*, Nat., Nov. 1893, p. 332).
- Euchelia jacobæ* L. In 1891 Mr. H. H. Corbett "bred from Doncaster larvæ some specimens which had the crimson replaced by buff or brick-red" (*Trans. Y.N.U.*, 1894, Part 20, p. 146).
- Euthemonia russula* L. Market Weighton (*N.F.D.*).
- Chelonia plantaginis* L. Drewtondale!! (*J.L.*); Rombalds Moor, near Bradford (*F.B.*); Saddleworth Moors (*G.T.P.*). A specimen of the variety *hospita* Schiff., "taken in Yorkshire, 1860," was exhibited by Mr. J. R. Wellman at a meeting of the South London Entomological Society, November 14th, 1889.
- Arctia mendica* L. Everingham!! (*J. Sumner*); Kilton Woods, near Loftus-in-Cleveland (*T.A.L.*); Middlesbrough (*T.A.L.*). A most extraordinary race of this species, in which the white on the wings of the female was heavily marked with black spots, streaks, or bearings, in some cases the wings being almost entirely suffused with black, the males also being exceptionally black and spotted, occurred at Grimescar, Huddersfield, in 1887-9, and formed the subject of a paper, illustrate

with figures of eighteen of the specimens from my cabinet, in the "Transactions of the Entomological Society of London," Part 3, October 1889. No similar race has been known to occur anywhere else, and unfortunately the character of the habitat was destroyed soon after, and apparently the insect with it.

Arctia lubricipeda L. A number of additional specimens of the extreme forms of this species are recorded. The late Mr. George Jackson of York used to breed the varieties *eboraci* Tugwell and *fasciata* Tugwell almost every season, sometimes in numbers, and at the time of his death possessed a long and very fine series of these and other extraordinary forms. Mr. W. Hewett reported the occurrence of three specimens of the extreme form of variety *radiata* Stn. (*zatima* Curt.) from Driffild; a specimen of *radiata* at Doncaster in 1901 (*H.H.C.*, Nat., 1901, p. 255); a variety *radiata* bred from a larva brought from Kirby Moorside by Mr. Reginald H. Barker of Scarborough (Nat., 1899, p. 68); "a fine *radiata* on a wall of some farm buildings near the sea wall at Withernsea in 1900; also a female, somewhat like var. *eboraci*, at same time and place" (*J.W.B.*). For a valuable paper dealing with the Yorkshire forms of this interesting species, by Mr. William Hewett, see Nat., Dec. 1894, pp. 353-362.

Liparis auriflua Fab. Fairly common near Barnsley in 1901 (*A.IV.*); Skelmanthorpe, Huddersfield (*B.M.*).

Liparis salicis L. Beverley (*W. Johnson*); Bishop's Wood in 1903 (*G.T.P.*); still occurs near Huddersfield at Skelmanthorpe (*B.M.*); Worsborough, near Barnsley (*A.IV.*).

Orgyia pudibunda L. Wheatley Wood, Doncaster (*H.H.C.*); Everingham! (*J. Sumner*); Skipwith (*C.D.A.*).

Orgyia antiqua L. Skelmanthorpe!! (*B.M.*). It is rare in the other parts of the Huddersfield district.

Demas coryli L. Grassington! (*G.T.P.*).

Trichiura cratægi L. Between Ayton and Stokesley (*T. Meldrum*); Melbourne, near York (*W.H.*); Skipwith (*C.D.A.*).

Pœcilocampa populi L. Beverley (*J.R.L.*); Everingham!! (*J. Sumner*); Grassington (*A. Gibson-Robertshaw*); Keighley (*A.B.*); Otley (*G.C.D.*); Sledmere (*S.W.*); Yarm! (*F. Atkinson*).

Eriogaster lanestris L. Everingham! (*J. Sumner*); Ingleby Greenhow!! (*F.E.*).

Bombyx rubi L. Penistone Moors in 1901 (*A.W.*); Skipwith Common near Selby!! (*C.D.A.*).

Bombyx quercus L. A few more specimens of the olive-banded form are recorded, including one female bred and one male captured on Rombald's Moor, near Bradford, in 1893, by Mr. J. Tordoff, from which locality too, I believe, Mr. W. Hewett has had several other specimens of the form. Mr. W. Tunstall also bred a fine female of the same form, but the darkest I have yet seen, from a larva found at Royds Edge, Huddersfield, in 1897; and still another is recorded from Norland Moor, some five miles from Huddersfield. A good deal of valuable and interesting information respecting the Yorkshire forms of this species may be found in Vol. 3. of Tutt's "British Lepidoptera," published in 1902.

Odonestis potatoria L. Mr. Hewett records that this species varies a good deal in the East Riding.

GEOMETRÆ.

Epione vespertaria *L.* Sandburn, York (where the species still continues in abundance), cannot now claim to be the only British habitat for this insect, as since 1897 it has been taken in some numbers at Adderston-Lea Moss, near Hawick, N.B., by Mr. W. Renton. Another hermaphrodite specimen was bred by Mr. R. Dutton from a York larva in 1893 (*W.H.*), and still another by Mr. S. Walker in 1901.

Epione apiciaria *W.I.* Numerous additional localities are recorded.

Venilia maculata *L.* Grassington! (*G.T.P.*); Great Ayton! (*W.S.*).

Ellopiia fasciaria *L.* Everingham!! (*J. Sumner*); Middlesbrough (*T.A.L.*).

Eurymene dolabraria *L.* Acomb (*F. Emsley*); Beverley (*W. Johnson*); Everingham! (*J. Sumner*); Kildale-in-Cleveland (*T.A.L.*); Sheffield, one bred in 1891 (*A.E.H.*).

Pericallia syringaria *L.* Beverley (*J.R.L.*); Wheatley Wood, Doncaster (*G.T.P.*); Everingham!! (*J. Sumner*); Skipwith (*C.D.A.*).

Selenia illunaria *Hüb.* Everingham, both broods!! (*J. Sumner*); Skipwith "both broods abundant" (*C.D.A.*).

Selenia lunaria *W.I.* Acklam, Ayton, and Ingleby (*F.E.*); Everingham (*J. Sumner*); Middlesbrough (*T.A.L.*); Redmire (*F.N.U.*); Skelmanthorpe, near Huddersfield, one (*B.M.*).

Odontopera bidentata *L.* Mr. George Parkin takes a fine, almost black form not unfrequently at Wakefield ; and the same form is also taken at Methley by Mr. J. Wigin.

Crocallis elinguaris *L.* Mr. William Hewett bred two hermaphrodite specimens in 1899 from an Everingham moth.

* **Ennomos autumnaria** *Wernh.* = **alniaria** *L.* A specimen was taken by Mr. James Terry in September 1884, "flying about in the Leeds Market" (*J.W.C.*). It was probably introduced with fruit or vegetables, and cannot, of course, be regarded as indigenous to the county.

Ennomos alniaria *Haw.* = **tiliaria** *Hüb.* Beverley (*J.R.L.*) ; Everingham !! (*J. Sumner*) ; Great Ayton, (*F.E.*) ; Keighley (*J.B.*) ; Skelmanthorpe, Huddersfield, in 1902 (*B.M.*) ; Skipwith Common !! (*C.D.A.*) ; Thorne (*G.T.P.*).

Ennomos fuscantaria *Haw.* Askern (*G.T.P.*) ; Everingham !! (*J. Sumner*) ; Ripon (*T.M.*) ; Saltaire (*J.B.*) ; Stamford Bridge (*S.W.*).

Ennomos erosaria *W.V.* Everingham (*J. Sumner*) ; Ingleby Greenhow (*F.E.*) ; Escrick Park, Skipwith (*C.D.A.*).

Ennomos angularis *W.V.* Beverley (*J.R.L.*) ; Everingham !! (*J. Sumner*) ; Harrogate (*B.B.T.*).

Himera pennaria *L.* Skelmanthorpe ! (*B.M.*).

Phigalia pilosaria *W.V.* The black form of this species, which formerly seemed to be confined to a few places in the West Riding, has spread almost all over the county. In addition to the previously-recorded localities, it is common near Barnsley (*A.W.*) ; fairly common at

Huddersfield (*G.T.P.* and *W. Tunstall*); and occurs at Everingham (*J. Sumner*); Great Ayton (*T.A.L.*); Otley (*W.M.*); Bishop's Wood, Selby (*S.W.*); and Sheffield (*A.E.H.*).

Nyssia hispidaria *W.I.* Wheatley Wood, Doncaster! (*H.H.C.*); Everingham!! (*J. Sumner*).

Amphydasis prodromaria *W.I.* Beverley (*J.R.L.*); Everingham!! "between forty and fifty, including an almost black specimen, in 1898" (*J. Sumner*).

Amphydasis betularia *L.* The black variety *doubledayaria* Mill. has now almost entirely eliminated the ordinary pale form from the South West Riding, and bids fair to do so throughout the county at no distant date. Mr. Corbett records the species "as mostly dark at Doncaster;" whilst the form also occurs at Burton Bushes, near Beverley (*J.R.L.*); Everingham (*J. Sumner*); Halifax (*A. Gibson-Robertshaw*); Loftus-in-Cleveland (*T.A.L.*); Pickering (*G.T.P.*); Sledmere (*W.H.*); Thorne (*G.T.P.*).

Cleora lichenaria *W.I.* Between Ayton and Stokesley (*T.M.*); Castle Howard (*J. Hawkins*).

Boarmia repandata *L.* I found a beautiful glossy black form in abundance in a wood near Huddersfield in 1887, and the form seems now to be spreading over the county (see *E.M.M.* of December 1881, p. 161). Mr. A. E. Hall has since found the form commonly near Sheffield; and it is also recorded from Bradford (*J.B.*); from Rotherham; and from the east side of the county at Saltburn (*G.T.P.*). Besides this extreme form, other paler varieties occur in which there is a marbling of rich browns and slate colours, and the races seem altogether different from anything found elsewhere.

Tephrosia biundularia *Esp.* This is still another species in which melanism has developed very strongly and rapidly, though the extreme blackest form seems to have been first noticed in the adjoining county of Cheshire, at Delamere Forest, and from which locality it was named var. *delamerensis* White. It is now the prevailing form at Doncaster (*H.H.C.*); is abundant in New Park Spring Wood, Cudworth (*A.W.*); common at Bishop's Wood (*G.T.P.*); and occurs at Everingham (*J. Sumner*); Kiveton Park, near Sheffield! (*G.T.P.*); Skipwith (*C.D.A.*); York (*W.H.*); Loftus-in-Cleveland (*T.A.L.*). Mr. B. Morley records the species as common at Skelmanthorpe, near Huddersfield, but does not state the proportion of the variety.

Tephrosia punctulata *W.V.* Elargill Wood, Ilkley (*T. Fieldhouse*); Levisham (Nat., July 1885, p. 207).

Gnophos obscurata *L.* Gormire (*N.F.D.*, Nat., August 1887, p. 238). Cayton Bay (*S.W.*).

* **Boletobia fuliginaria** *L.* A specimen taken at midnight at the end of August 1896 in Messrs. Earle & Co.'s shipbuilding yard at Hull, was exhibited by Mr. J. W. Boulton at a meeting of the Hull Scientific and Naturalists' Club, October 14th, 1896.

Geometra papilionaria *L.* Everingham! (*J. Sumner*); Glaisdale (*T.A.L.*); five larvæ in Deffer Wood, Skelmanthorpe, in 1901 (*B.M.*); Skipwith Common (*C.D.A.*).

Phorodesma bajularia *W.V.* Everingham Park!! (*J. Sumner*); Escrick Park, Skipwith (*C.D.A.*).

Hemithea thymiaria *L.* Keighley (*A.B.*).

Ephyra punctaria *L.* New Park Spring Wood, Cudworth!! (*A.W.*); Meanwood Wood, Leeds (*W.M.*).

Ephyra trilinearia *Bork.* Sledmere! (*W.H.*).

Ephyra pendularia *L.* Strensall Common, York, not uncommon (*G.T.P.*).

Asthena luteata *W.V.* Loftus-in-Cleveland (*T.A.L.*); Sledmere (*W.H.*).

Asthena candidata *W.V.* Bishop's Wood (*G.T.P.*); widely distributed in Cleveland (*T.A.L.*); Grassington (*G.T.P.*).

Asthena sylvata *W.V.* Anston Stones, near Sheffield! (*S. L. Mosley*).

Asthena blomeraria *Dbl.* Castle Howard! (*G.T.P.*); Middlesbrough (*W.S.* and *F.E.*); Knaresborough (*W.H.*); Sledmere!! (*G.T.P.*).

Eupisteria heparata *W.V.* Numerous fresh localities.

Venusia cambricaria *Gn.* Addingham (*F. Emsley*); Blubberhouses!! (*Lord Walsingham*); Carlton-in-Cleveland (*F. Elgee*); Dunford Bridge (*G.T.P.*); Grassington!! (*G.T.P.*); Hardcastle Craggs (*Albert E. Wright*); Harrogate (*B.B.T.*); Helmsley (*J.W.C.*). Mr. T. A. Lofthouse takes near Middlesbrough a very pretty melanic form in some numbers; and Mr. L. S. Brady takes the same form commonly near Sheffield.

(**Acidalia interjectaria** *W.V.* This species must be deleted from the former list; it is not likely it ever occurred at Huddersfield.)

Acidalia straminata *Tr.* The Rev. Cyril D. Ash found another locality for this local species at Skipwith Common in 1900, and has since taken it rather freely in the same place. With it he also found the variety *circellata* *Gn.*, which until comparatively recently was considered a distinct species.

Acidalia immutata L. Wheatley Wood, Doncaster!!
(*H.H.C.*); one at Dunford Bridge on July 9th, 1892
(*W.M.*); Everingham!! (*J. Sumner*).

Acidalia fumata Steph. Harrogate!! (*B.B.T.*); Ilkley
(*J. Wigin*); Middlesbrough (*W.S.*).

Acidalia imitaria Hüb. Everingham! (*J. Sumner*).

Acidalia aversata L. The golden-brown form is common
at Askern and Filey (*G.T.P.*).

Acidalia inornata Haw. Barnsley (*J.H.*); this formerly
rare species absolutely swarms in some of the woods
near Meltham, Huddersfield, where I have had as many
as a dozen in my net at one time (*G.T.P.*); Skipwith
Common (*C.D.A.*).

Timandra amataria L. Beverley (*J.R.L.*); Everingham!!
(*J. Sumner*); Hull (*J.W.B.*); Skipwith (*C.D.A.*).

Cabera rotundaria Haw. Skelmanthorpe, Huddersfield,
“not uncommon among birch” (*B.M.*). Strensall,
York (*S.W.*).

Cabera exanthemaria Scop. I have a curious variety,
having a dark smoky band through the middle of all the
wings, taken at Brighouse by Mr. Wilmot Tunstall, and
which is figured in Barrett’s “British Lepidoptera.”

Macaria liturata L. New Park Spring Wood, Cudworth
(*A.W.*); Everingham!! (*J. Sumner*); Middlesbrough
(*T.A.L.*); Skipwith! (*C.D.A.*); Sledmere (*W.H.*).

Strenia clathrata L. Redmire (*Y.N.U.*); Skipwith
(*C.D.A.*).

Numeria pulveraria L. Everingham! (*J. Sumner*);
Grassington (*G.T.P.*); Kilton Woods, Loftus (*T.A.L.*).

Scodiona belgiaria Hüb. Danby-in-Cleveland (*T.A.L.*);
Skipwith (*C.D.A.*); Strensall, York (*S.W.*).

Fidonia atomaria L. Many beautiful varieties occur in the South West Riding, and, at Dunford Bridge, Mr. John Harrison takes a form of the female, the colour of which is as dark a brown as in the ordinary male.

* *Fidonia pinetaria* Hüb. A specimen taken in Raincliff Wood, Scarborough, in 1894, by Mr. Reginald H. Barker (Nat., March 1895, p. 80). I have seen the specimen (*G.T.P.*).

Lythria purpuraria L. Mr. John T. Carrington, who formerly resided at York, confirms the record in the previous list, of this species (see Entomologist, Feb. 1888, p. 70).

Aspilates strigillaria Hüb. Danby-in-Cleveland (*F.E.*).

Abraxas grossulariata L. The late Mr. George Jackson bred many very extraordinary and beautiful varieties of this species from York larvæ; and Mr. William Mansbridge and others perhaps equally fine forms from other parts of the county. Mr. W. Hewett records the variety *varleyata* Porritt, from Haworth, in 1894.

Abraxas ulmata Fab. For several consecutive seasons prior to 1901, the lead-coloured form of this species was taken in abundance at Sledmere by Messrs. R. Dutton, W. Hewett, S. Walker, and others; and with it occurred many intermediate and beautiful forms. Several of the specimens taken by Mr. Hewett are figured in Barrett's "British Lepidoptera." The lead-coloured form also occurred at Drewton Dale to Mr. Reynolds, of Beverley (see Mr W. Hewett's paper in the Entomologist's Record, Vol. 9, p. 304; and Trans. Y.N.U., Part 26, 1900, pp. 182-184).

Hybernia rupicaprararia *W.V.* Bretton!! (*B.M.*); Everingham!! (*J. Sumner*); Skelmanthorpe, "scarce" (*B.M.*); Skipwith!! (*C.D.A.*).

Hybernia leucophæaria *W.V.* Light and dark forms (the latter including the variety *nigricaria* Hüb.), in about equal abundance at Doncaster (*H.H.C.*); the variety *nigricaria* at Everingham (*J. Sumner*); Great Ayton (*T.A.L.*); Guisborough (*T.A.L.*); Skelmanthorpe! (*B.M.*).

Hybernia aurantiaria *Hüb.* A suffused, almost melanic, male specimen was taken at Horsforth in 1890 by Mr. W. Mansbridge; and I have also an unicolorous, very dark male bred from a Huddersfield larva (*G.T.P.*).

Hybernia progemmaria *Hüb.* The variety *fuscata* Mosley has extended its range to other divisions of the county, and is recorded from Mapplewell, near Barnsley!! (*A.W.*); Doncaster, very rare (*H.H.C.*); York (*W.H.*).

Hybernia defoliaria *L.* Several unicolorous and almost black specimens at Saltaire in November 1896, by Messrs. J. Beanland and F. Booth (*W.H.*).

Anisopteryx æscularia *W.V.* Skelmanthorpe! (*B.M.*).

Oporabia fligrammaria *H.-S.* Apparently common on all the moors in the South West Riding, and in some seasons I have found it abundant at Dunford Bridge, and at Harden Moss Moor and adjoining woods, Huddersfield. At Dunford Bridge, in 1891, I took a very pretty buff-coloured variety, which is figured in Barrett's "British Lepidoptera." The species also occurs at Blubberhouses (*G.T.P.*); and at Sheffield, "larvæ abundant on heather at end of May" (*L.S.B.*).

Larentia multistrigaria *Harw.* The melanic form has become quite common in the Huddersfield district, and has been taken in some numbers by myself, Mr. B. Morley, and Mr. W. Tunstall. Mr. B. Morley says that at Birdsedge, Huddersfield, "half the specimens are black."

Larentia cæsiata *W.V.* Middlesbrough (*T.A.L.*).

Larentia ruficinctata *Gn.* One at Hutton Buscel Moor, near Scarborough, July 16th, 1891 (*R.H.B.*, in *Nat.*, September 1891, p. 277).

Larentia salicata *Hüb.* Blubberhouses (*F. Emsley*); Battersby, Cleveland (*T.A.L.*); Great Ayton (*F. Elgee*); Ilkley (*T. Fieldhouse*); Sheffield (*L.S.B.*).

Larentia olivata *W.V.* Grassington (*E.P.P.B.* and *W.M.*); Ingleby and Baisdale, Cleveland (*F. Elgee*); Loftus-in-Cleveland (*T.A.L.*); Swaledale!! (*J.H.R.*).

Emmelesia affinitata *Steph.* Blubberhouses (*Lord Walsingham*); Castle Howard (*G.T.P.*); Middlesbrough (*T.A.L.*); Skipwith (*C.D.A.*).

Emmelesia alchemillata *L.* Blubberhouses (*Lord Walsingham*); Grassington! (*G.T.P.*); Harrogate (*B.B.T.*); Skelmanthorpe (*B.M.*).

Eupithecia venosata *Fab.* Halifax (*E.H.*); Skelmanthorpe! (*B.M.*).

Eupithecia pulchellata *Steph.* Blubberhouses!! (*G.T.P.*); Doncaster!! (*H.H.C.*); Skelmanthorpe!! (*B.M.*); Skipwith (*C.D.A.*).

Eupithecia centaureata *W.V.* Everingham (*J. Sumner*); Skipwith (*C.D.A.*); Worsborough Bridge (*A.W.*).

Eupithecia subfulvata *Harw.* Everingham! (*J. Sumner*); Redcar (*T.A.L.*); Skipwith (*C.D.A.*).

Eupithecia subumbrata *W.V.* Thorne, near Goole, in 1894 (*J.H.*). I have seen the specimens (*G.T.P.*).

* *Eupithecia isogrammata* *H.-S.* Mr. J. Sumner first reported this species from Everingham; then Mr. L. S. Brady found the larvæ in profusion on *Clematis* growing near Wadworth, Doncaster, in 1901.

Eupithecia pygmæata *Hüb.* Wheatley Wood, Doncaster, "not uncommon" (*H.H.C.*); Grassington (*G.T.P.*); Huddersfield, one specimen near Lepton Wood by Mr. F. Ellis (*S.L.M.*); Skipwith (*C.D.A.*); Sandburn Lane, York (*S.W.*).

Eupithecia satyrata *Hüb.* Strensall, York (*S.W.*).

Eupithecia castigata *Haw.* A very dark melanic form occurs at Huddersfield (*G.T.P.*).

Eupithecia trisignata *H.-S.* Wadworth Wood, Doncaster (*George Jackson*); Medge Hall, near Goole (*R. T. Cassal*).

Eupithecia lariciata *Frey.* New Park Spring Wood, Cudworth!! (*G.T.P.*); Everingham!! (*J. Sumner*); Grassington (*G.T.P.*); Kiveton Park, near Sheffield!! (*G.T.P.*); Skipwith (*C.D.A.*); Sledmere (*W.H.*); Thorne!! (*G.T.P.*). Evidently abundant wherever there is any quantity of larch throughout the county.

Eupithecia virgaureata *Dbf.* Skipwith (*C.D.A.*).

Eupithecia albipunctata *Haw.* Medge Hall, near Goole (*R. T. Cassal*); the black variety, *angelicata* *Crewe*, occurs at Skipwith (*C.D.A.*).

Eupithecia valerianata *Hüb.* Reared in plenty by Mr. George Rose, from larvæ collected at Wharnccliffe.

Eupithecia fraxinata *Crewe.* Leyburn!! (*G.T.P.*); Skelmanthorpe! (*B.M.*); Skipwith (*C.D.A.*).

- Eupithecia indigata* Hüb. Skipwith (C.D.A.).
- Eupithecia vulgata* Haw. The Rev. C. D. Ash has taken specimens of a very peculiar form at Skipwith.
- Eupithecia absynthiata* L. Everingham (J. Sumner).
- Eupithecia minutata* Hüb. Skipwith Common!! (C.D.A.).
- Eupithecia assimilata* Dbl. Skipwith (C.D.A.); Worsborough (A.W.).
- Eupithecia tenuiata* Hüb. Everingham (J. Sumner); Great Ayton (T.A.L.); Middlesbrough (T.A.L.); Selby!! (L.S.B.).
- Eupithecia exigua* Hüb. Battersby (T.A.L.); Everingham (J. Sumner); Skipwith (C.D.A.); Thorne (G.T.P.).
- Eupithecia rectangulata* L. Battersby (T.A.L.); Everingham!! (J. Sumner); Skipwith (C.D.A.).
- Collix sparsata* Hüb. Mr. John Harrison, of Barnsley, found a second county locality for this local species in the fir wood near Thorne Waste, on July 16th, 1890.
- Lobophora hexapterata* W.V. A few at Langwith, near York (S.W.).
- Lobophora viretata* Hüb. Grassington, on June 20th, 1891 (W.M.). Hayburn Wyke (S.W.).
- Lobophora lobulata* Hüb. A very pretty pale greenish specimen, now in my own cabinet, and figured in Barrett's "British Lepidoptera," was taken by the late Mr. G. C. Dennis, at Sandburn, York.
- (*Lobophora simulata* Hüb. The Huddersfield record, in former list, I think is probably erroneous).
- * *Thera juniperata* L. A specimen was taken at Acklam, near Middlesbrough, by Mr. F. Elgee, on October 8th, 1900, but which, Mr. Elgee thinks, may have been

"imported with juniper bushes in churchyard." The species is also recorded as having been taken at Birstwith, Nidderdale, by Mr. F. T. Walker (Nat., July 1886, p. 210).

***Thera variata* W.F.** Many of the Dunford Bridge specimens are nearly black, and all are exceptionally dark (*G.T.P.*); Skipwith! "a very handsome, dark-banded form predominates" (*C.D.A.*).

***Thera firmata* Hüb.** Everingham!! (*J. Sumner*); Skipwith Common (*C.D.A.*).

***Hypsipetes ruberata* Frey.** Great Ayton (*T.A.L.*); Hayburn Wyke, near Scarborough, larvæ common in old salallows on the sea-shore, Sept. 9th to 15th, 1896 (*G.T.P.*); Holly Carrs, Skipwith (*C.D.A.*).

***Hypsipetes impluviata* W.F.** Yorkshire specimens generally, are very much darker than forms from most other districts (*G.T.P.*); Everingham!! (*J. Sumner*); Middlesbrough (*T.A.L.*); Skipwith (*C.D.A.*).

***Hypsipetes elutata* W.F.** The South West Riding moorland forms vary infinitely, and many of them are exquisitely pretty. I know of no place where more varied and beautiful specimens can be obtained than on the Harden Moss Moors, Huddersfield, and many of the forms in that district seem not to occur elsewhere. A number of my own specimens are figured in Barrett's "Lepidoptera of the British Islands."

***Melanthia rubiginata* W.F.** Mr. T. A. Lofthouse records the dark variety *plumbata* Curt. from Middlesbrough. There are numerous records of fresh localities for the ordinary form.

***Melanthia ocellata* L.** In many, perhaps most, of the Huddersfield specimens the band is very broad and the pale parts are strongly suffused with pink (*G.T.P.*).

Melanthia albicillata *L.* Everingham (*J. Sumner*); Grassington!! (*G.T.P.*); Keighley!! (*A.B.*); Kilton Woods, Loftus (*T.A.L.*); Middlesbrough (*W. Sachse*); North Grimston! (*G.T.P.*); Skelmanthorpe, Huddersfield, "not common" (*B.M.*); Skipwith (*C.D.A.*); Sledmere (*G.T.P.*).

Melanippe hastata *L.* Middlesbrough (*T.A.L.*); Skelmanthorpe! (*B.M.*). I bred a very pretty variety, figured in Barrett's "Lepidoptera of the British Islands," from Wharnccliffe Woods (*G.T.P.*).

Melanippe tristata *L.* In the Yorkshire specimens the black is almost as intense as in *hastata*. Dodworth Wood!! (*G.T.P.*); Ilkley (*J. Wiggin*); Rotherham! (*J. N. Young*); Skelmanthorpe!! (*B.M.*); Wharnccliffe Woods!! (*G.T.P.*).

Melanippe rivata *Hüb.* Ayton (*T.A.L.*); Skipwith! (*C.D.A.*).

* **Melanippe unangulata** *Haw.* First recorded from Haw Park, Wakefield, by Messrs. Lumb and George Wilson (*Nat.*, Dec. 1884, p. 104). Also taken at Barden, and near Bradford, by Mr. W. Hodgson (*J.W.C.*, *Nat.*, March 1886, p. 67); and at Everingham (*J. Sumner*).

Melanippe montanata *W.V.* A melanic variety at Ripon, June 1886 (*J. E. Robson*, *Young Nat.*, Nov. 1887).

Coremia munitata *Hüb.* This local species has occurred in several fresh localities. Everingham (*J. Sumner*); Ling Gill, Penyghent, 1897 (*J.B.*); Redmire (*F.N.U.*, *Nat.*, 1893, p. 226); and one was taken at Widdop, near the Halifax reservoir, on July 24th, 1897, by Mr. W. G. Clutton, of Burnley.

Coremia propugnata *W.V.* Loftus (*T.A.L.*).

Coremia unidentaria *Haw.* Sledmere (*G.T.P.*).

Phibalapteryx lignata Hüb. Skipwith Common (*C.D.A.*).

Scotosia dubitata L. Grassington (*W.M.*); Skipwith (*C.D.A.*).

Scotosia vetulata *W.V.* Larvæ of this species were taken in great plenty, from which moths were freely bred, by several lepidopterists at Askham Bogs, on the occasion of the Yorkshire Naturalists' Union's Excursion there in 1900 (*G.T.P.*).

Scotosia rhamnata *W.V.* Skipwith (*C.D.A.*) makes a second county locality for this species.

Scotosia certata Hüb. Everingham, scarce (*J. Sumner*).

Cidaria psittacata *W.V.* Blubberhouses, September 26th, 1885 (*C.S.*); Doncaster (*H.H.C.*); Grassington (*A. Gibson-Robertshaw*).

Cidaria corylata Thunb. Skelmanthorpe !! (*B.M.*).

Cidaria russata *W.V.* Mr. John Harrison takes very fine almost glossy black specimens at Dunford Bridge; but the prevailing Yorkshire form is of a dark slaty-blue colour, which is almost unknown in the southern counties.

Cidaria immanata Haw. I have to considerably modify my remark in the previous list "that the variation in this species is much paler generally than in *russata*," as in the South West Riding the reverse is often the case. Many of the Huddersfield and Dunford Bridge specimens are almost quite black, but there is also a good deal of very handsome variation in those districts, some examples being beautifully marbled with white; others variegated with a lovely dove colour; whilst in others the pale parts are filled with rich browns. (For figures of some of the forms see Barrett's "Lepidoptera of the British Islands").

Cidaria suffumata *W.V.* This is another exceedingly interesting species in our county. The so-called "Dover form," from its having been first *recorded* from the town of that name, was, for many years previously, well known in the Huddersfield district. In it the band is very bright blackish-brown, on a bright pale straw-coloured ground, and it is most extraordinary that it should not even yet be known from any district between Yorkshire and Kent. The beautiful black and white form, which since the publication of the last list has been named var. *porrittii* by Mr. Robson has again been repeatedly taken by Mr. B. Morley and others at Skelmanthorpe, where the "Dover form" is also common, and from which form I have bred the var. *porrittii*. Mr. Brady records two specimens of var. *porrittii* at Wadworth, near Doncaster, in 1900; and Mr. Sydney Webb, of Dover, has one labelled "Leeds." Mr. Arthur Whitaker records the var. *piceata* from Worsborough, near Barnsley. (For figures of Yorkshire forms see Barrett's "Lepidoptera of the British Islands").

Cidaria silacea *W.V.* Wadworth, Doncaster (*L.S.B.*); Everingham (*J. Sumner*); Glaisdale and Kilton (*T.A.L.* and *W.S.*); Grassington (*J.B.* and *F.B.*); Sledmere (*W.H.*); Skelmanthorpe in 1900 (*B.M.*)

Cidaria prunata *L.* Everingham !! (*J. Sumner*); Ingleby Greenhow (*F.E.*); Saltaire (*J.B.*).

Cidaria populata Bork. Blubberhouses (*Lord Walsingham*); Everingham !! (*J. Sumner*); Middlesbrough (*T.A.L.*); Skipwith (*C.D.A.*).

Cidaria dotata *L.* Saltaire (*J.B.* and *F.B.*); Skipwith (*C.D.A.*).

Eubolia cervinaria *W.I.* Everingham (*J. Sumner*);
Skipwith (*C.D.A.*); Staithes! (*T.A.L.*).

Eubolia mensuraria *W.I.* Skelmanthorpe! (*B.M.*).

Eubolia palumbaria *W.I.* Skelmanthorpe!! (*B.M.*).

I took a fine very dark variety of this species on
Strensall Common, York (*G.T.P.*).

Eubolia bipunctaria *W.I.* Saltburn (*G.T.P.*).

Chesias spartiata *Fab.* Everingham (*J. Sumner*); Eston
and Ingleby (*F.E.*); Skipwith (*C.D.A.*).

Chesias obliquaria *W.I.* One at Doncaster, June 14th,
1883, by Mr. George Tindall.

DREPANULÆ.

Platypteryx lacertula *Hüb.* Grassington (*J.B.*).

Platypteryx falcu *W.I.* This species varies in Yorkshire
from quite pale bone colour to dark chocolate-brown
(*G.T.P.*). New Park Spring Wood, Cudworth! (*A.W.*);
Everingham!! (*J. Sumner*); Great Ayton (*T.A.L.*);
Skelmanthorpe! (*B.M.*).

PSEUDO-BOMBYCES.

Dicranura furcula *L.* Beverley (*J.R.L.*); Horsforth
(*W.M.*); Middlesbrough (*F.E.*); Skipwith (*C.D.A.*);
Worsborough (*A.W.*). York! (*S.W.* and *T. Wilson*).

Dicranura bifida *Hüb.* Beverley (*J.R.L.*); Middles-
brough (*T.A.L.*).

Petasia cassinea *Fab.* Everingham!! (*J. Sumner*);
Keighley in 1900 (*A.B.*); Sledmere (*S.W.*).

Clostera reclusa *W.I.* Scarborough (*J.H.R.*) makes a
second Yorkshire district for this species.

Ptilodontis palpina L. Beverley (*W.J.*)

Notodonta camelina L. West Yorkshire specimens are usually of a dark chocolate-brown colour (*G.T.P.*).

Notodonta dictæa L. Near Barnsley (*A.W.*); Wadworth Wood, Doncaster (*J.N.Y.*); Everingham (*J. Sumner*); Skelmanthorpe! (*B.M.*); Thorne! (*G.T.P.*).

Notodonta dictæoides *Esp.* New Park Spring Wood, Cudworth! (*A.W.*); Wadworth Wood, Doncaster (*H.H.C.* and *J.N.Y.*); Everingham!! (*J. Sumner*); Ingleby Greenhow (*F.E.*); Thorne! (*G.T.P.*); Skelmanthorpe, Huddersfield (*B.M.*).

Notodonta dromedarius L. New Park Spring Wood, Cudworth! (*A.W.*); Thorne!! (*G.T.P.*).

Notodonta ziczac L. Edlington Wood, Doncaster! (*G.T.P.*); Everingham (*J. Sumner*); Skipwith (*C.D.A.*).

Notodonta trepida *Fab.* A female at light on May 9th, 1897 (*J. Sumner*).

Notodonta chaonia *W.V.* Guisborough in 1901 by Mr. T. Belk (*T.A.L.*); York (*G.C.D.*).

Notodonta dodonæa *W.V.* Yorkshire specimens are much darker, and, I think, generally larger, than southern examples (*G.T.P.*). Everingham!! (*J. Sumner*). Market Weighton in 1901 (*S.W.*).

Diloba cæruleocephala L. Everingham!! (*J. Sumner*); Skipwith!! (*C.D.A.*).

NOCTUÆ.

Thyatira derasa L. Kilton Woods, Cleveland (*W.S.*).

Cymatophora duplaris L. Mr. B. Morley took a black specimen in Deffer Wood, Skelmanthorpe, in 1902. The black form also occurs at Sandburn, York (*S.W.*). Everingham!! (*J. Sumner*); Grassington (*G.T.P.*).

Cymatophora fluctuosa *Hüb.* Mr. A. Whitaker has found this local species in plenty in a wood near Barnsley, where in June 1901, he and two friends took three dozens in two visits; and in 1902, in Mr. Whitaker's company, I had the pleasure of taking some in the same wood. The specimens from there, too, are, I think, the largest and darkest I have seen (*G.T.P.*). Burntwood (*J.N.Y.*).

Cymatophora diluta *W.W.* Barnsley specimens, and probably those of the South West Riding generally, are very dark and richly marked (*G.T.P.*). Bishop's Wood (*G.T.P.*).

Cymatophora flavicornis *L.* A variety taken in Wheatley Wood, Doncaster, in 1894, is figured in Barrett's "Lepidoptera of the British Islands" (*H.H.C.*).

Cymatophora ridens *Fab.* Scarborough (*A. H. Head* and *T. W. Lownsbrough*).

Bryophila perla *W.W.* The variety *flavescens* *Tutt* occurred at Wheatley, Doncaster, in July 1895 (*H.H.C.*).

Acronycta tridens *W.W.* Skipwith, "a few larvæ" (*C.D.A.*, Nat., 1895, p. 88).

Acronycta leporina *L.* Mr. A. Whitaker finds this species fairly commonly in the same wood near Barnsley in which *C. fluctuosa* occurs. In some seasons it is common at Askham Bogs, as in 1891 (*G.T.P.*); Burntwood (*J.N.Y.*); Skelmanthorpe (*B.M.*); Skipwith Common (*C.D.A.*); Thorne (*G.T.P.*). I believe the Yorkshire form is entirely of the dark variety *brady-porina* *Tr.*

Acronycta megacephala *W.W.* "A melanic form occurs at Wheatley Wood, Doncaster" (*H.H.C.*); Everingham! (*J. Summer*); Methley (*J.W.*); Middlesbrough (*T.A.L.*); the larva feeds on aspen at Thorne (*G.T.P.*).

Acronycta alni L. Recorded from numerous additional localities, including larvæ found on ash and aspen.

Acronycta ligustri W.V. Everingham! (*J. Sumner*); Grassington (*F.B.* and *J.B.*); Kildale (*T.A.L.*); I found larvæ commonly on ash at Leyburn on the occasion of the Y.N.U.'s Excursion there on August 4th, 1900 (*G.T.P.*).

Acronycta menyanthidis Esp. Danby and Glaisdale (*T.A.L.*); Penistone Moors! (*A.W.*); the Rev. C. D. Ash has sent me the black form, which is very fine, from Skipwith Common, near Selby, where he says it is common (*G.T.P.*). The species is common in the hilly moorland districts of the South West Riding, but very singularly only the very pale form seems to occur there.

Leucania conigera W.V. Everingham! (*J. Sumner*); Saltburn (*G.T.P.*); Skelmanthorpe! (*B.M.*); Skipwith (*C.D.A.*).

Tapinostola elymi Tr. Common at Tod Point, Middlesbrough (*T.A.L.*).

(*Nonagria cannæ* Ochs. This species must be deleted from the old list. I feel sure its recorded occurrence at Huddersfield is a mistake).

Nonagria typhæ Esp. Everingham!! (*J. Sumner*); Gilling, near Helmsley (*L.S.B.*); Hull (*J.W.B.*); Sherburn (*Lord Walsingham*); Stokesley (*T.A.L.*).

Nonagria lutosæ Hüb. Everingham! (*J. Sumner*); Middlesbrough (*T.A.L.*); "one on a gas lamp just outside the town of Sheffield in 1895" (*L.S.B.*).

Gortyna flavago W.V. Ardsley!! (*A.W.*); Everingham!! (*J. Sumner*); Middlesbrough (*T.A.L.*); Skipwith (*C.D.A.*).

Xylophasia sublustris Esp. Everingham, not uncommon (*J. Sumner*).

Xylophasia polyodon L. "About equally light and dark forms at Doncaster" (*H.H.C.*).

* *Xylophasia zollikoferi* *Frr.* Of this, one of our greatest rarities—there being hitherto only two British specimens recorded—Mr. T. Ashton Lofthouse was fortunate enough to capture a good example at "sugar" at Linthorpe, Middlesbrough, on the night of September 26th, 1903. Mr. Lofthouse sent me the specimen for examination (see *Nat.*, Dec. 1903).

Xylophasia hepatica L. Everingham! (*J. Sumner*).

Xylophasia scolopacina *Esp.* Wheatley Wood, Doncaster (*H.H.C.*); a few at Huddersfield in different years (*G.T.P.*); Rotherham (*J. Bloor*); Skelmanthorpe (*B.M.*).

* *Laphygma exigua* *Hüb.* This grand addition to our list was made by Mr. Thomas Fieldhouse, who took no less than eight specimens near Keighley on the night of September 22nd, 1903. Mr. Fieldhouse was searching for *Scotosia dubitata* with his lamp, when his attention was attracted by a small noctua flying at the light, and eight specimens were secured, which proved to be of this rarity. Mr. Fieldhouse kindly sent me three of them for examination (see *Nat.*, Nov. and Dec. 1903).

Neuria saponariæ *Esp.* Doncaster, not uncommon (*H.H.C.* and *B.M.*); Hull (*J.W.B.*).

Cerigo cytherea *Fab.* Harrogate (*B.B.T.*); Middlesbrough (*T.A.L.*); Skipwith (*C.D.A.*); Spurn (*J. Porter*).

Luperina testacea *W.V.* Varies in the Huddersfield district from pale buff colour to black (*G.T.P.*).

Luperina cespitis *W.V.* Everingham!! (*J. Sumner*); Harrogate (*B.B.T.*); Midgley, near Halifax (*A. Gibson-Robertshaw*); Skipwith (*C.D.A.*).

- Mamestra anceps** *Hüb.* Wadworth Wood, Doncaster, in 1888 (*J.N.Y.*).
- Mamestra abjecta** *Hüb.* Hull, one in 1900 (*J. Porter*); near Middlesbrough! (*T.A.L.*); Saltburn (*G.C.D.*); Skipwith in 1894 and 1899 (*C.D.A.*).
- Mamestra albicolon** *Hüb.* Middlesbrough and Redcar (*T.A.L.*).
- Mamestra furva** *W.V.* Wadworth Wood, near Conisborough, in 1888 (*J.N.Y.*).
- Mamestra persicariæ** *L.* Common at Bishop's Wood in 1901 (*F. Emsley*); Skipwith (*C.D.A.*).
- Apamea connexa** *Bork.* Rotherham in 1889 (*J.N.Y.*); abundant at Wharnccliffe Woods, near Sheffield, the last week in July and early in August, 1887 (*G.T.P.*).
- Apamea gemina** *Hüb.* The variety *remissa* *Hüb.* is abundant at Huddersfield, and apparently so in many other parts of the county (*G.T.P.*).
- Apamea unanimitis** *Hüb.* Doncaster!! (*H.H.C.*); Hull (*J.W.B.*); Middlesbrough (*T.A.L.*); Worsborough Reservoir!! (*A.W.*).
- Apamea fibrosa** *Hüb.* Skipwith in 1894 (*C.D.A.*).
- Apamea oculatea** *L.* Although the paler varieties occur sparingly, by far the great majority of Huddersfield specimens are of the very dark brown or black forms (*G.T.P.*).
- Miana strigilis** *L.* "Almost equally light and dark forms at Doncaster" (*H.H.C.*); now nearly all are black at Huddersfield (*G.T.P.*).
- Miana furuncula** *W.V.* One specimen of the variety *terminalis* *Haw.* at Doncaster in 1883 (*H.H.C.*); Everingham (*J. Sumner*); Hull (*J.W.B.*).

- Celæna haworthii** *Curt.* Blubberhouses! (*G.T.P.*); Halifax (*E. Halliday*); Skipwith Common (*C.D.A.*).
- Grammesia trilinea** *W.V.* Usually scarce at Doncaster, but abundant there in 1899 (*H.H.C.*); the variety *bilinea* Hüb. at Everingham (*J. Sumner*).
- Caradrina morpheus** *Naturf.* Everingham (*J. Sumner*); Saltaire (*J. B.*); Skipwith (*C.D.A.*).
- Caradrina alsines** *Bork.* Wheatley Wood, Doncaster, in 1893 (*H.H.C.*); Hull! (*J.W.B.*); Skipwith (*C.D.A.*).
- Caradrina blanda** *W.V.* Everingham (*J. Sumner*); Hull (*J. Porter*); Saltaire (*J.B.*); Skipwith (*C.D.A.*).
- Agrotis valligera** *W.V.* Everingham! (*J. Sumner*); Skipwith in 1899 (*C.D.A.*). "In numbers a few years ago at Sandburn, York" (*S.W.*).
- Agrotis saucia** *Hüb.* Doncaster, rare (*H.H.C.*); Everingham!! (*J. Sumner*); Great Ayton (*F.A.*); Huddersfield, not uncommon (*G.T.P.*); Middlesbrough in 1900 (*F.E.*); Skipwith (*C.D.A.*).
- Agrotis corticea** *W.V.* Skipwith (*C.D.A.*, *Nat.*, March 1895, p. 89).
- Agrotis nigricans** *L.* Wheatley Wood, Doncaster! (*H.H.C.*); Everingham!! (*J. Sumner*); Saltburn (*G.T.P.*); Skelmanthorpe! (*B.M.*); Skipwith (*C.D.A.*).
- Agrotis tritici** *L.* One at Wheatley Wood, Doncaster (*H.H.C.*); Everingham! (*J. Sumner*); abundant and in splendid variety on the sandhills from Marske to Redcar (*G.T.P.*); Skipwith (*C.D.A.*); a melanic specimen at Halifax in 1900 (*E. Halliday*).
- Agrotis agathina** *Dup.* Battersby, Cleveland (*T.A.L.*); Ingleby Greenhow (*F.E.*); Skipwith Common!! (*C.D.A.*).
- Agrotis ravidia** *W.V.* Wheatley Wood, Doncaster, one in 1895 and one in 1896 (*H.H.C.*); Hull! (*J.W.B.* and

W.J.P.); two at Middlesbrough in 1901 (*T.A.L.*); Saltburn, on August 15th, 1891 (*T. Maddison*).

Agrotis lucerneæ *L.* Ilkley, in 1900 (*T. Fieldhouse*); Halifax, one in 1897 (*W. L. Carter*); in my own garden at Crosland Hall, Huddersfield (*G.T.P.*); Oakworth Moor! (*T. Fieldhouse*); one at Shibden in 1899 (*J. Sumner*).

Tryphæna janthina *W.V.* Was always one of the most abundant noctuæ in my garden at Crosland Hall, Huddersfield, the larvæ feeding on ivy, and probably other plants (*G.T.P.*); Leyburn (*G.T.P.*); Loftus-in-Cleveland (*T.A.L.*); Midgley, near Halifax (*A. Gibson-Robertshaw*).

Tryphæna fimbria *L.* Skelmanthorpe!! (*B.M.*); Worsborough!! (*A.W.*).

Tryphæna interjecta *Hüb.* Wheatley Wood, Doncaster, in 1893 (*H.H.C.*); Everingham (*J. Sumner*); Middlesbrough (*T.A.L.*); Saltburn, not uncommon (*G.T.P.*).

Noctua glareosa *Esp.* Everingham!! (*J. Sumner*); Loftus-in-Cleveland (*T.A.L.*); Skipwith Common (*C.D.A.*). The very pretty red, or more often pink, variety *rosea* Tutt, occurs at Huddersfield (*G.T.P.*), and at Strines, Sheffield (*L.S.B.*). The chocolate-brown specimen taken near Barnsley in 1883 (see first list), was exactly of the form which has in recent years been so freely taken in the Shetland Isles.

Noctua triangulum *Ochs.* A few at Wheatley, Doncaster (*H.H.C.*).

Noctua rhomboidea *Tr.* Glaisdale, August 1903 (*T.A.L.*); Ingleby Greenhow, on July 30th, 1899 (*F. Elgee*).

Noctua dahlia *Hüb.* Rotherham (*J. Bloor*); Skelmanthorpe, abundant in 1901 (*B.M.*); Wharnciffe Woods! (*J.N.F.*).

Noctua rubi *Vieweg.* Two very fine and striking yellow forms occur regularly but rarely at Askham Bogs, York,

to Mr. S. Walker and others. These Mr. Walker has described and named respectively *flava* and *ochracea* (see Ent. Record, 1902, pp. 171-2).

Trachea piniperda *Esp.* Eston, Cleveland !! (*F.E.*); Everingham !! (*J. Sumner*); Kildale, Cleveland (*T.A.L.*); Skipwith Common (*C.D.A.*).

Tæniocampa leucographa *W.V.* Still occurs in abundance at Bishop's Wood (*G.T.P.*); three at Saltburn in 1901 (*T.A.L.*).

Tæniocampa opima *Haw.* Bishop's Wood, occasionally (*G.T.P.*); Everingham !! (*J. Sumner*); Skipwith (*C.D.A.*).

Tæniocampa populeti *Fab.* Apparently by far the most abundant of the genus in Bishop's Wood, where some nice varieties occasionally occur (*G.T.P.*); Everingham !! (*J. Sumner*); Kildale, Cleveland (*T.A.L.*); Skelmanthorpe, "two specimens" (*B.M.*).

Tæniocampa gracilis *W.V.* Bishop's Wood, not uncommon (*G.T.P.*); Everingham !! (*J. Sumner*); Edlington, Doncaster (*L.S.B.*); "a beautiful pink coloured form was taken at Bishop's Wood by Mr. S. Walker in 1900" (*W.H.*).

Orthosia suspecta *Hüb.* Dunford Bridge ! (*G.T.P.*); some seasons occurs in great profusion at Huddersfield (*G.T.P.*); Mirfield (*G.T.P.*); Glaisdale, Cleveland (*T.A.L.*); Skipwith (*C.D.A.*).

Orthosia hypsilon *W.V.* Apperley Bridge (*J. Tordoff*); Skipwith (*C.D.A.*); Worsborough Reservoir !! (*A.W.*).

Orthosia lota *L.* Bishop's Wood ! (*G.T.P.*); Wheatley Wood, Doncaster ! (*H.H.C.*); Skelmanthorpe ! (*B.M.*); Skipwith (*C.D.A.*).

Anchocelis rufo *L.* In great abundance in the South West Riding, and varies more there perhaps than in

any other part of the British Islands; the colouring of the specimens is exceedingly rich, and I have one, figured in Barrett's "Lepidoptera of the British Islands," of a rich golden yellow (*G.T.P.*).

Anchocelis pistacina *W.V.* Everingham!! (*J. Sumner*); Hull (*J.W.B.*); Middlesbrough (*T.A.L.*); Skipwith (*C.D.A.*).

Anchocelis lunosa *Haw.* New Park Spring Wood, Cudworth, two at sugar, Sept. 14th, 1901 (*A.W.*); Doncaster in 1891 (*H.H.C.*); Maltby Wood (*L.S.B.*); Middlesbrough (*T.A.L.*).

Cerastis spadicea *W.V.* Edlington Wood, Doncaster (*L.S.B.*); Everingham!! (*J. Sumner*); Hull (*J. Porter*); Skelmanthorpe, one in 1901 (*B.M.*); Skipwith, "swarming at sugar, one night over seventy on two small trees" (*C.D.A.*, Nat., March 1885, pp. 83 and 90).

Xanthia citrago *L.* Hayburn Wyke (*G.T.P.*); Ingleby, Cleveland (*W.S.*); Rotherham (*J.N.Y.*).

Xanthia aurago *W.V.* This species, formerly a great rarity in the county, appears to be getting commoner, and extending its range. Barnsley in 1903 (*A.W.*); one at Doncaster in 1893 (*H.H.C.*); fourteen specimens at Rotherham, Sept. 30th to Oct. 8th, 1893 (*J. Bloor* and *J. Brooks*); Sheffield, Oct. 22nd, 1887 (*A. E. Hall*); Skelmanthorpe, near Huddersfield, several in a beech wood in 1900, and two in Deffer Wood, Sept. 28th, 1901 (*B.M.*).

Xanthia gilvago *Esp.* Castle Howard (*G.C.D.*); Everingham! (*J. Sumner*); Scarborough in 1900 (*T. W. Lownsborough*); Skipwith (*C.D.A.*).

Cirrædia xerampelina *Hüb.* This is another species which has been taken in abundance of late years, owing no doubt to the discovery of better ways to find it both as larva and imago. The variety *unicolor* Gn. too is of

frequent occurrence, and is probably to be found wherever the species is taken freely. Everingham!! (*J. Sumner*); Grassington (*F. Emsley*); Anlaby, Hull! including a few of the var. *unicolor* (*W. H. and J. Porter*); Ledsham (*F. Emsley*); Middlesbrough (*T.A.L.*); Ripon, including the var. *unicolor* (*T. Meldrum*); Skipwith, including the var. *unicolor* (*C.D.A.*); Glaisdale!! (*T.A.L.*); Great Ayton!! (*T.A.L.*); Ormesby (*T.A.L.*).

Tethea subtusa *W.V.* Wheatley Wood, Doncaster (*G.T.P.*); Sheffield (*E. A. Cockayne*).

Euperia fulvago *W.V.* = *paleacea* *Esp.* Another species which is rapidly extending its range and becoming more abundant. Thirty years ago, in Britain almost confined to Sherwood Forest in Nottinghamshire; in August and September 1880, towards thirty were taken in Wadworth Wood, Doncaster, by Mr. J. N. Young and his friends. In 1881 it occurred in Edlington Wood, Doncaster, to Mr. John Harrison; and in the same year Mr. A. E. Hall recorded it as common in a wood about a mile from Sheffield; and in subsequent years Mr. H. H. Corbett found it in abundance in Wheatley Wood, Doncaster. By 1900 it had extended its range to Deffer Wood, Skelmanthorpe, Huddersfield, where Mr. B. Morley took two in September; and in the following year (1901) Mr. Morley recorded twenty specimens in the same wood. Four at Sandburn, York, 1903 (*S. Walker*).

Cosmia trapezina *L.* This is another species which varies exceedingly in the South West Riding, and by careful selection many pretty forms are to be got. I have one, figured in Barrett's "Lepidoptera of the British Islands," taken at sugar in Honley Wood, Huddersfield, by Mr. W. Tunstall, in which the broad central band is uniformly dark olive-green.

Cosmia diffinis *L.* Doncaster in 1891 (*A. Paterson*).

Cosmia affinis *L.* Doncaster in 1891 (*A. Paterson*); Everingham!! (*J. Sumner*); Hilton (*T.A.L.*); Methley (*J. Wigin*); Skelmanthorpe, Huddersfield, "one specimen" (*B.M.*); Skipwith (*C.D.A.*).

Dianthæcia carpophaga *Bork.* Skelmanthorpe, Huddersfield, bred in 1891 (*B.M.*).

Dianthæcia cucubali *W.F.* Skelmanthorpe! (*B.M.*); Keighley (*A.B.*); Kildale (*T.A.L.*); Saltaire (*J.B.*); Skipwith (*C.D.A.*).

Hecatera serena *W.V.* Several additional localities are recorded for this pretty species. Doncaster, single specimens in different years (*H.H.C.*); Drewton Dale in 1893 (*W. Johnson*); Hull in 1897 and 1900 (*J. Porter*).

Polia chi *L.* Another species which varies greatly in the Huddersfield district, and where it shows a strong melanic tendency. The darkest form, of an almost uniform dark olive-lead colour, was first found near Lockwood in 1890 by Mr. S. L. Mosley, since which time I have taken it repeatedly on the walls close to my house in the Meltham district, but it does not yet seem to be recorded from any other locality; with it the variety *suffusa* Robson (first described from Bradford specimens, where the form is also common), the variety *olivacea* Steph., and other forms occur (*G.T.P.*). Mr. Cockayne records the var. *olivacea* from Sheffield; but Mr. Corbett says that a dark form is hardly ever seen at Doncaster.

Polia flavocincta *L.* Doncaster in 1891 (*H.H.C.*); Everingham!! (*J. Sumner*); Middlesbrough (*T.A.L.*); Pocklington (*W.H.*); Skipwith! (*C.D.A.*); Great Ayton!! (*F.A.*).

Dasypolia templi *Thunb.* Mr. E. Halliday takes this species abundantly at gas lamps around Halifax.

- Epunda lutulenta** *W.V.* Middlesbrough, not uncommon in 1899 and 1900 (*T.A.L.*).
- Epunda viminalis** *Fab.* Edlington and Wadworth Woods, Doncaster!! (*G.T.P.*); Great Ayton (*W.S.*); Ingleby Greenhow (*F.E.*).
- Epunda lichenea** *Hüb.* Still common at Scarborough (*John Braim*).
- Miselia oxyacanthæ** *L.* The type and var. *capucina* *Mill.* in about equal numbers at Doncaster (*H.H.C.*).
- Agriopis aprilina** *L.* Bishop's Wood (*G.T.P.*); Everingham!! (*J. Sumner*); Ingleby Greenhow (*F.E.*); Skelmanthorpe! (*B.M.*). Huddersfield specimens are very dark green, and usually strongly banded with black (*G.T.P.*).
- Euplexia lucipara** *L.* Of this most constant species, Mr. Corbett took a specimen in Wheatley Wood, Doncaster, in 1900, in which the usual pale band parallel to the hind margin was almost obsolete.
- Aplecta herbida** *W.V.* Bishop's Wood (*F. Emsley*); Castle Howard (*G.T.P.*); Drewton Dale (*J.R.L.*); Everingham! (*J. Sumner*); Ingleby Greenhow (*F.E.*); Loftus-in-Cleveland (*W.S.*). Some of Mr. Corbett's Doncaster varieties are figured in Barrett's "Lepidoptera of the British Islands."
- Aplecta occulta** *L.* Doncaster, July 18th, 1897 (*H.H.C.*); Everingham, not uncommon in 1897 (*J. Sumner*); Middlesbrough, several in 1900 (*T.A.L.*); Redcar (*J. Belk*); Skipwith in 1897 (*C.D.A.*); Wharnccliffe in August 1897 (*J.H.*). Mr. W. Hewett says the Everingham specimens are very dark, but I believe that applies to Yorkshire specimens generally.
- Aplecta nebulosa** *Tr.* Harrogate (*B.B.T.*); Skelmanthorpe! (*B.M.*). A very dark smoky form, approaching variety *robsoni* Collins, occurs in the South West Riding.

Aplecta tincta *Bork.* A specimen recorded by Mr. S. L. Mosley as taken drying its wings in Greenhead Park, Huddersfield, in 1887, was possibly introduced in the larva state with herbage from a distance.

Hadena protea *W.V.* On October 26th, 1900, Mr. F. R. Atkinson showed me a very extraordinary, almost black specimen, which he had recently taken at Glaisdale, Cleveland (*G.T.P.*); Eston, Ingleby, and Middlesbrough (*F.E.*); Everingham!! (*J. Sumner*); Harewood (*F. Emsley*); Escrick Park, Selby (*C.D.A.*); Skelmanthorpe (*B.M.*).

Hadena glauca *Kleem.* Several localities in Cleveland (*T.A.L.*); Harrogate (*B.B.T.*); Helmsley Moor (*F. Emsley*); common at Bill's-o'-Jack's, and Harden Moss, Huddersfield (*G.T.P.*); Ingleby Greenhow (*F.E.*); Skipwith Common (*C.D.A.*).

Hadena dentina *W.V.* South West Riding specimens are very dark (*G.T.P.*).

Hadena suasa *W.V.* Doncaster (*H.H.C.*); Horsforth (*W.M.*); Hull!! (*W.J.P.*); Methley (*J. Wigin*); Skipwith, six in 1897 (*C.D.A.*).

Hadena contigua *W.V.* Wadworth Wood, Doncaster, in 1888 (*J.N.Y.*), makes a second county locality.

Xylocampa lithoriza *Bork.* Carlton, Cleveland (*F.E.*); Everingham!! (*J. Sumner*); Kilton Woods, Cleveland (*W.S.*).

Cloantha solidaginis *Hüb.* Another species which seems to have become quite abundant in recent years, especially on the moorlands around Huddersfield (*G.T.P.*), Dunford Bridge (*G.T.P.*), Wilsden, Bingley (*E.P.P.B.*), Sheffield (*L.S.B.*), and probably in the West Riding generally. The specimens too are exceptionally dark. Other localities are Ilkley (*T. Fieldhouse*); Middlesbrough!

(*T.A.L.*); Pickering! (*J. Brain*); and Mr. S. Walker records another at Askham Bogs, York, thus confirming the former record for this apparently unlikely locality.

Calocampa vetusta *Hüb.* Barnsley in 1903 (*A.W.*); one at Wheatley Wood, Doncaster, in 1895 (*H.H.C.*); Middlesbrough in 1899 (*W.S.*); Skipwith (*C.D.A.*).

Calocampa exoleta *L.* Everingham!! (*J. Sumner*); Middlesbrough (*W.S.*).

Cucullia verbasci *L.* Doncaster!! (*H.H.C.*); Everingham!! (*J. Sumner*); Hull! (*J.W.B.*); Skipwith in 1903 (*C.D.A.*); Sledmere (*G.T.P.*).

Cucullia chamomillæ *W.V.* Great Ayton, May 31st, 1902 (*T.A.L.*); Pilmoor, 1901 (*F. Emsley*); Skipwith (*C.D.A.*); Thorne, in 1885 (*G.T.P.*).

Cucullia umbratica *L.* Castle Howard! (*G.T.P.*); Doncaster (*H.H.C.*); Everingham!! (*J. Sumner*); Ingleby Greenhow (*F.E.*); Methley (*J. Wiggin*).

* **Heliothis peltigera** *W.V.* On September 6th, 1885, Mr. W. Eagle Clarke, then of Leeds, found a specimen of this species (which he kindly presented to myself) at rest on the Kilnsea beacon, which stands at the extreme seaward edge of the sandhills at Spurn. So far as we know, this still remains the only county example.

Heliodes arbuti *Fab.* Wadworth, Doncaster, "swarmed" (*L.S.B.*); Great Ayton (*T.A.L.*); Scarborough (*R.H.B.*).

* **Erastria fuscula** *W.V.* Mr. W. E. Brady of Barnsley records (*Nat.*, 1885, p. 206) the capture of two specimens at Wharnccliffe about 1871 or 1872 by Mr. Henry Willits of Sheffield; but notwithstanding Mr. Brady's evident faith in the record, I cannot help thinking there must have been some error, probably of memory, on Mr. Willits' part; and until we have further evidence it will be best not to regard the species as a Yorkshire insect.

Brephos parthenias *L.* New Park Spring Wood, Cudworth, April 20th, 1901 (*A.W.*).

Abrostola triplasia *L.* Doncaster (*H.H.C.*); Everingham! (*J. Sumner*); Hull (*J. Porter*); Pateley Bridge (*G.T.P.*); Skipwith (*C.D.A.*).

Plusia festucae *L.* One at Doncaster in 1891 (*A. Paterson*); Middlesbrough in 1900 (*T.A.L.*); Skipwith in 1897 (*C.D.A.*).

Plusia bractea *W.I.* Mr. H. H. Corbett records a specimen as taken by Mr. E. B. Tonkinson at flowers of clematis at Doncaster on August 15th, 1902 (*Nat.*, April 1903, p. 129). The species was exceptionally abundant in its known localities outside our county that year.

Plusia interrogationis *Hüb.* Great Ayton and Eston Hills, Cleveland (*T.A.L.*); Ilkley (*C.S.*); Ingleby Greenhow, not uncommon (*F.E.*); Keighley in 1900 (*F.B.*); Scarborough Moors!! (*J.H.R.*); Glaisdale!! (*F.A.*).

Gonoptera libatrix *L.* Everingham!! (*J. Sumner*).

Mania typica *L.* Mr. Wilmot Tunstall bred a very extraordinary and beautiful variety in 1894 from a larva found near Healey House, Huddersfield. The specimen has a large pink V-shaped mark across each wing. Mr. Tunstall kindly gave me the specimen, and it is figured in Barrett's "Lepidoptera of the British Islands."

Mania maura *L.* South West Riding examples are usually very black, but Mr. B. Morley takes near Skelmanthorpe, where the species is very abundant, an occasional specimen with the pale parts bright glossy yellow; one of these from my own cabinet is figured in Barrett's "Lepidoptera of the British Islands."

Stilbia anomala *Haw.* Great Ayton, 1903 (*T.A.L.*); Ingleby Greenhow, July 1900 (*T.A.L.*); Mr. J. Bean-

land takes this species commonly near Saltaire, and has sent me specimens from that locality. Previously its inclusion in the county list rested on a single specimen taken at Bradford by Mr. J. W. Carter.

Catocala fraxini *L.* An example in the Spa grounds at Scarborough on October 3rd, 1896 (*J.H.R.*, Nat., Dec. 1896, p. 254) makes the fifth county specimen of this rare species. It may be as well to record here, too, that the Stoneycliffe Wood specimen (see first list) is now in the late Mr. Nicholas Cooke's collection in the Liverpool Museum.

Euclidia mi *L.* Drewton Dale! (*J.R.L.*); Everingham!! (*J. Sumner*); Great Ayton (*F.E.*); Strensall, York!! in 1901 and 1902 (*F. Emsley*).

Euclidia glyphica *L.* Tadcaster (*B.B.T.*); Strensall, York!! in 1901 and 1902 (*F. Emsley*).

Phytometra ænea *W.V.* Great Ayton (*W.S.*); Anlaby, Hull (*J. Porter*); Levisham! (Nat., July 1895, p. 207); Skipwith Common (*C.D.A.*).

DELTOIDES.

Herminia tarsipennalis *Tr.* Wheatley Wood, Doncaster! (*H.H.C.*); Holly Carrs, Skipwith (*C.D.A.*).

Herminia grisealis *W.V.* Everingham! (*J. Sumner*).

PYRALIDES.

Pyralis fimbrialis *W.V.* Doncaster, July 5th, 1899 (*H.H.C.*, Nat., Oct. 1899, p. 298).

Pyralis glaucinalis *L.* Wheatley Wood, Doncaster (*H.H.C.*); Everingham! (*J. Sumner*); Skipwith (*C.D.A.*).

(Cledeobia angustalis *W.V.* I think the record of this insect in former list had better be deleted; it is a most unlikely species for the county).

- Pyrausta punicealis* W.V. Grassington (*G.T.P.*).
- Pyrausta purpuralis* L. Everingham! (*J. Sumner*); Harrogate (*B.B.T.*); Skipwith (*C.D.A.*).
- Pyrausta ostrinalis* Hüb. Malham (*J.W.C.*); Skipwith (*C.D.A.*).
- Herbula cespitalis* W.V. Everingham (*J. Sumner*); Lindrick Common, Kiveton Park!! (*G.T.P.*); Skipwith (*C.D.A.*).
- Ennychia cingulalis* L. Doncaster in 1894 (*H.H.C.*); Rievaulx, near Helmsley!! (*J.W.C.*, Nat., Oct. 1885, p. 347).
- Ennychia octomaculalis* L. Everingham! (*J. Sumner*); Grassington! (*G.T.P.*).
- (*Stenia punctalis* W.V. This species had better be deleted from the first list).
- Cataclysta lemnalis* L. Barnsley (*J.H.*); Sandal Brick Fields, Doncaster!! (*H.H.C.*).
- Paraponyx stratiotalis* L. Everingham!! (*J. Sumner*); Skipwith (*C.D.A.*).
- Hydrocampa nymphæalis* L. Barnsley (*J.H.*); Everingham!! (*J. Sumner*); Skipwith (*C.D.A.*). A melanic form in which the white parts of the wings are almost, in some cases quite, obliterated, is abundant at Frizinghall, Bradford (*J.W.C.*), and at Huddersfield (*G.T.P.*).
- Hydrocampa stagnalis* Don. Pilmoor (*F. Emsley*); Skipwith (*C.D.A.*).
- Acentropus niveus* Ol. Mr. John Harrison takes this peculiar species in abundance near Barnsley. Previously we had only a very old county record of its occurrence near York.
- Botys fuscalis* W.V. Dodworth Wood, near Barnsley (*H.H.C.*); Everingham! (*J. Sumner*).

Ebulea crocealis *Tr.* Askern (*G.T.P.*); Everingham!! (*J. Sumner*); Scarcroft in 1902 (*F. Emsley*).

(**Ebulea verbascalis** *W.V.* Another species which had better be deleted from the old list).

Ebulea sambucalis *W.V.* Everingham! (*J. Sumner*).

* **Spilodes palealis** *W.V.* In July 1886, Mr. Joseph T. Sewell sent me for determination a considerable number of lepidoptera taken by himself near Whitby, amongst which was a specimen of this species. Mr. Sewell informed me that Mr. Lister of Whitby also possessed specimens taken in the same district.

Scopula ferrugalis *Hüb.* Huddersfield in August 1888 (*G.T.P.*); Middlesbrough (*T.A.L.*).

Stenopteryx hybridalis *Hüb.* Blubberhouses (*Lord Walsingham*); Skipwith (*C.D.A.*).

Scopula conspiciualis *Hodgk.* = *ulmella* *Dale.* "In great abundance on one particular tree in Bingley Wood. I counted last year (1901) as many as from fifteen to twenty on the trunk of this tree at one time" (*E.P.P.B.* in litt., Feb. 7th, 1902).

Scoparia cembræ *Harw.* The variety *scotica* White, occurs at Bingley (*E.P.P.B.*).

* **Scoparia ingratalis** *Gn.* I took several of this insect in a rough field beyond and adjoining Pennyspring Wood, Huddersfield, on June 26th, 1888. It is however now generally, and I think rightly, regarded as a variety of *S. pyralalis* *W.V.*

Scoparia muralis *Gn.* Grassington! (*G.T.P.*); Horton-in-Ribblesdale!! (*G.T.P.*); Skipwith (*C.D.A.*).

Scoparia mercurialis *L.* Doncaster (*H.H.C.*); Everingham!! (*J. Sumner*); Skipwith (*C.D.A.*). I used to get an exceptionally dark form about old ivy in my garden at Crosland Hall, Huddersfield (*G.T.P.*).

Scoparia cratægalis Hüb. Skipwith (C.D.A.).

Scoparia truncicolalis Stn. Everingham !! (J. Sumner); Skipwith (C.D.A.).

Scoparia coarctalis Zell. = *angustalis* Curt. Abounds on the mossy outside of the cemetery wall at Huddersfield (G.T.P.); Wheatley, Doncaster !! (H.H.C.); Middlesbrough (T.A.L.).

CRAMBITES.

Crambus pratellus L. "The Blubberhouses specimens are nearly as dark as the Unst form" (Lord Walsingham).

* *Crambus sylvellus* Hüb. = *adipellus* Tr. The Rev. C. D. Ash informs me he takes this species on Skipwith Common.

Crambus hamellus Thunb. Thorne Waste in 1895 (H.H.C.). Only previously recorded from Scarborough.

Crambus pascuellus L. Skipwith Common (C.D.A.).

Crambus margaritellus Hüb. Harrogate (B.B.T.).

* *Crambus uliginosellus* Zell. Skipwith Common, near Selby, in 1895 (C.D.A., Nat., March 1896, p. 88). Mr. Ash informs me that the determination is quite correct.

Crambus perlellus Scop. Everingham !! (J. Sumner).

Crambus warringtonellus Zell. A specimen at Knavesmire, York, June 1893 (G.C.D.).

Crambus inquinatellus W.V. Barnsley (J.H.); Rossington, Doncaster !! (H.H.C.); Huddersfield (G.T.P.).

Chilo phragmitellus Hüb. Skipwith (C.D.A.).

Schoenobius forficellus Thunb. Everingham (J. Sumner); Skipwith Common (C.D.A.).

* *Ephestia kühniella* Zell. Doncaster (H.H.C. and G.T.P., Nat., Feb. 1899, p. 51); Skipwith, a specimen

in November 1898 (*C.D.A.*). I had a series from the late Mr. G. C. Dennis, which, I believe, was taken in Messrs. Joseph Terry & Sons' Confectionery Works at York (*G.T.P.*).

Ephestia elutella *Hüb.* Balby, Doncaster (*H.H.C.*).

Plodia interpunctella *Hüb.* Skipwith (*C.D.A.*).

Phycis betulella *Goetz.* Skipwith Common (*C.D.A.*).

Phycis carbonariella *Fisch.* = *fusca* *Harw.* Harrogate (*B.B.T.*) ; Skipwith Common (*C.D.A.*).

(*Phycis ornatella* *W.V.* This species had better be deleted from the old list).

Pempelia palumbella *W.V.* Skipwith Common (*C.D.A.*).

Rhodophæa advenella *Zinck.* Everingham ! (*J. Sumner*) ; Mr. Sumner sent me a number of specimens for determination.

Oncocera ahenella *W.V.* On the publication of the first list, Mr. P. Inchbald wrote me that the Huddersfield specimens were certainly correctly determined ; and I had further confirmation of the capture of specimens in the locality, by finding five examples among the local captures of micro-lepidoptera of the late Mr. George Liversedge, of Huddersfield. (See *Nat.*, March 1886, p. 66).

Melia sociella *L.* Bingley (*E.P.P.B.*) ; Castle Howard (*G.T.P.*) ; Skipwith (*C.D.A.*).

TORTRICES.

Halias prasinana *L.* Skelmanthorpe ! (*B.M.*).

Sarrothripa revayana *W.V.* = *undulana* *Hüb.* Mr. J. Sumner sent me specimens for determination from Everingham, where it is evidently not uncommon.

Tortrix pyrastrana Hüb. A very fine, almost black, form was fairly common in my garden at Crosland Hall, Huddersfield, and the surrounding district.

Tortrix sorbiana Hüb. Everingham! (*J. Sumner*).

* *Tortrix diversana* Hüb. = *transitana* Gn. Edlington Wood, Doncaster, August 2nd, 1886 (*G.T.P.*).

Tortrix cinnamomeana Tr. Askern! (*G.T.P.*); Sledmere! (*G.T.P.*); Escrick Park, near Selby (*C.D.A.*); Thorne (*G.T.P.*).

Tortrix unifasciana Dup. Barnsley (*J.H.*); Everingham! (*J. Sumner*); Saltburn (*G.T.P.*); Skipwith (*C.D.A.*).

Tortrix costana W.V. Barnsley (*J.H.*); Middlesbrough (*T.A.L.*).

Tortrix viburnana W.V. Dunford Bridge (*J.H.*).

Tortrix icterana Fröl. Grassington! (*G.T.P.*).

Tortrix adjunctana Tr. = *forsterana* Dup. ? Barnsley (*J.H.*); Doncaster!! (*H.H.C.*); Everingham! (*J. Sumner*); Skipwith (*C.D.A.*).

Tortrix branderiana L. Mr. Corbett records this local species as abundant at Wadworth Wood, Doncaster, where he says "the larvæ roll the leaves of aspen like cigarettes."

Amphysa gerningana W.V. Blackhills, Bingley! (*E.P.P.B.*); Skipwith Common (*C.D.A.*).

Amphysa walkerana Curt. = *prodromana* Hüb. Doncaster in 1891 (*H.H.C.*).

Leptogramma literana L. Everingham! (*J. Sumner*); Harrogate (*B.B.T.*); Kildale (*T.A.L.*).

Peronea sponsana Fab. Barnsley (*J.H.*); Castle Howard (*G.T.P.*); Everingham! (*J. Sumner*).

Peronea mixtana Hüb. Harden Moor, Bingley (*E.P.P.B.*); Everingham! (*J. Sumner*); Skipwith Common (*C.D.A.*).

Peronea schalleriana L. Mr. W. Farren took the variety *latifasciana* Haw. at Scarborough, in September 1891.

Peronea comparana Hüb. Barnsley (J.H.); Castle Howard (G.T.P.); Saltaire (E.P.P.B.); Saltburn (G.T.P.); Scarborough (W. Farren); Skipwith (C.D.A.).

Peronea caledoniana Bent. Abounds apparently on all the South-West Yorkshire moors (G.T.P.).

Peronea variegana W.I. Mr. W. Farren found the variety *cirrana* Curt. abundant at Scarborough (E.M.M., Vol. 28, p. 87).

Peronea hastiana L. Morton, Bingley (E.P.P.B.); Skipwith Common (C.D.A.).

* *Peronea maccana* Tr. Mr. T. A. Lofthouse found this species at Middlesbrough.

Peronea ferrugana W.I. Huddersfield!! (G.T.P.).

Peronea aspersana Hüb. Bingley! (E.P.P.B.).

Teras caudana Fab. Barnsley (J.H.); Castle Howard (G.T.P.); Everingham!! (J. Sumner).

Ditula semifasciana Haw. Skipwith (C.D.A.).

Penthina betulætana Haw. Barnsley (J.H.); Bingley (E.P.P.B.); Everingham!! (J. Sumner); Skipwith Common (C.D.A.).

Penthina prælongana Gn. Barnsley (J.H.); Bingley! (E.P.P.B.); Everingham!! (J. Sumner); Wharnccliffe Woods (G.T.P.).

* *Penthina ochroleucana* Hüb. Skipwith (C.D.A.).

Penthina ochromelana Gn. = *dimidiana* Treit. Near Rombalds Moor, Bingley! (E.P.P.B.); Huddersfield!! (G.T.P.); larvæ abundant in spun-up leaves of *Myrica gale* at Thorne Waste (H.H.C.); Wakefield! (G.T.P.).

- Penthina sauciana* Hüb. Dunford Bridge!! (*J.H.*); Greenfield!! (*G.T.P.*); Huddersfield! (*G.T.P.*). Probably plentiful throughout the South West Riding wherever bilberry grows freely.
- Penthina marginana* Haw. Skipwith Common (*C.D.A.*).
- Antithesia salicana* Gn. Two at Wheatley Wood, Doncaster (*J.H.*).
- Spilonota lariciana* Zell. Blackhills, Bingley (*E.P.P.B.*).
- Spilonota dealbana* Fröl. Bingley! (*E.P.P.B.*).
- Spilonota neglectana* Dup. Bingley (*E.P.P.B.*); Everingham! (*J. Sumner*).
- * *Spilonota rosæcolana* Dbl. Edlington Wood, Doncaster (*G.T.P.*); Skipwith (*C.D.A.*).
- Spilonota roborana* W.V. Everingham!! (*J. Sumner*); Skipwith (*C.D.A.*).
- Aspis udmanniana* L. Barnsley (*J.H.*); Skipwith (*C.D.A.*).
- Mixodia schulziana* Fab. Harden Moors, Bingley (*E.P.P.B.*); Greetland Moors, Halifax (*D. Robinson*); Meltham Moors, Huddersfield (*G.T.P.*).
- (*Orthotænia antiquana* Hüb. I think the Huddersfield record is probably an error, and it had better be deleted from the first list.)
- Orthotænia striana* W.V. Thorne (*G.T.P.*); Skipwith (*C.D.A.*).
- (*Orthotænia ericetana* Bent. Beckfoot, near Bingley, in 1884 (*E.P.P.B.*, Nat., August 1885).
- Phtheochroa rugosana* Hüb. Skipwith (*C.D.A.*).
- (*Cnephasia politana* Haw. Everingham!! (*J. Sumner*); Thorne Waste (*H.H.C.*).
- Sciaphila nubilana* Hüb. Skipwith (*C.D.A.*).

Sciaphila subjectana Steph. Askern (*G.T.P.*); Skipwith (*C.D.A.*).

Sciaphila virgaureana Fr. Mr. John Harrison takes an extraordinary dark form at Barnsley.

Sciaphila chrysanthæana Dup. Evidently widely distributed and common. Barnsley (*J.H.*); Bingley (*E.P.P.B.*); Wheatley Wood, Doncaster (*H.H.C.*); Everingham!! (*J. Sumner*); Huddersfield! (*G.T.P.*).

* *Sciaphila sinuana* Stn. Near Bingley, one specimen (*E.P.P.B.*); Edlington, Doncaster!! "larvæ in flowers of *Scilla festalis*" (*H.H.C.*).

Sciaphila pascuana Stn.² Malham (*G.T.P.*); Saltburn to Redcar! (*G.T.P.*); Thorne (*J.H.*).

Sciaphila hybridana Hüb. Barnsley (*J.H.*); Huddersfield (*G.T.P.*).

Sciaphila octomaculana Haw.² Mr. John Harrison also takes an extraordinary black form of this species at Barnsley (*G.T.P.*); Bingley (*E.P.P.B.*).

Sphaleroptera ictericana Haw. Barnsley (*J.H.*).

Capua ochraceana Steph. Generally common. Wharncliffe Woods, etc. (*G.T.P.*).

Clepsis rusticana Tr. Askham Bogs (*G.T.P.*); Doncaster! (*H.H.C.*); Huddersfield (*G.T.P.*).

Bactra lanceolana Hüb. Huddersfield!! (*G.T.P.*). No doubt common among rushes everywhere.

Bactra furfurana Haw. Everingham, not uncommon (*J. Sumner*).

Phoxopteryx unguicana L. Skipwith Common (*C.D.A.*).

* *Phoxopteryx siculana* Hüb. I found this pretty species in Askham Bogs, York, May 31st, 1890 (*G.T.P.*).

Phoxopteryx subarcuana *Wilk.* = *inornatana* *H.-S.* One at Bingley (*E.P.P.B.*); Skipwith Common (*C.D.A.*).

Phoxopteryx myrtillana *Tr.* Barnsley (*J.H.*).

Phoxopteryx lundana *Fab.* Bishop's Wood !! (*G.T.P.*); Everingham !! (*J. Sumner*); Skipwith Common (*C.D.A.*).

* *Phoxopteryx diminutana* *Haw.* I took this species at Bishop's Wood, near Selby, on June 2nd, 1884 (*G.T.P.*).

Phoxopteryx mitterpacheriana *W.V.* Bishop's Wood (*G.T.P.*); Everingham (*J. Sumner*).

Phoxopteryx harpana *Hüb.* = *ramana* *Fröl.* = *lactana* *Fab.* Thorne (*J.H.*).

Grapholita ramana *L.* = *paykulliana* *Fab.* Barnsley (*J.H.*); Everingham !! (*J. Sumner*); Thorne (*G.T.P.*); Wharnccliffe Woods (*G.T.P.*).

Grapholita nigromaculana *Haw.* Everingham !! (*J. Sumner*); Rotherham (*J.H.*).

Grapholita campoliliana *W.V.* = *subocellana* *Don.* Barnsley (*J.H.*); Bishop's Wood (*G.T.P.*); Skipwith Common (*C.D.A.*).

Grapholita trimaculana *Don.* Saltburn to Redcar (*G.T.P.*).

Grapholita penkleriana *W.V.* Saltburn to Redcar (*G.T.P.*).

Grapholita nævana *Hüb.* Barnsley (*J.H.*); Everingham !! (*J. Sumner*); Skipwith (*C.D.A.*).

Grapholita geminana *Steph.* Occurs in thousands on the South-West Yorkshire moors. Blubberhouses !! (*Lord Walsingham*); Greenfield !! (*G.T.P.*); Huddersfield !! (*G.T.P.*); Penistone (*J.H.*).

Phlæodes tetraquetra *Haw.* Askham Bogs (*G.T.P.*); Barnsley (*J.H.*); Skipwith (*C.D.A.*).

- Hypermezia cruciana* L. Barnsley (*J.H.*); Huddersfield (*G.T.P.*).
- Batodes angustiorana* *Harw.* Everingham!! (*J. Sumner*); Skipwith (*C.D.A.*).
- Pœdisca bilunana* *Harw.* Everingham!! (*J. Sumner*); Huddersfield!! (*G.T.P.*).
- Pœdisca profundana* *W.V.* Eston Hill, Cleveland (*T.A.L.*).
- Pœdisca ophthalmicana* *Hüb.* Conisborough (*H.H.C.*); Rotherham (*J.H.*); Shipley Glen (*E.P.P.B.*); Thorne (*G.T.P.*).
- Pœdisca occultana* *Dougl.* Probably common in all our pine woods. Blackhills, Bingley (*E.P.P.B.*); Dunford Bridge (*J.H.*); Saltburn!! (*G.T.P.*).
- Pœdisca semifuscana* *Harw.* Edlington Wood (*G.T.P.*); Skipwith (*C.D.A.*); Otley (*G.T.P.*).
- Pœdisca sordidana* *Hüb.* Barnsley (*J.H.*); Bishop's Wood, near Selby, larvæ in profusion on alders, June 13th, 1887 (*G.T.P.*).
- Ephippiphora bimaculana* *Don.* Barnsley (*J.H.*); Wharnccliffe (*G.T.P.*).
- Ephippiphora circiana* *Zell.* Bingley (*E.P.P.B.*); Skipwith (*C.D.A.*).
- Ephippiphora pflugiana* *Harw.* = *scutulana* *W.V.* Apparently common among thistles everywhere.
- Ephippiphora brunnichiana* *W.V.* Barnsley (*J.H.*); Edlington Woods (*G.T.P.*); Everingham! (*J. Sumner*); Huddersfield!! (*G.T.P.*); Sherburn (*G.T.P.*).
- Ephippiphora turbidana* *Tr.* I found this fine species in abundance about butterbur, near to Castle Howard railway station, in June 1896, and whenever I have been there at the right time since (*G.T.P.*); Greta Bridge! (*Nat.*, July 1892, p. 211).

Ephippiphora trigeminana Steph. Everingham! (*J. Sumner*).

* *Ephippiphora tetragonana* Stn. I took two perfectly fresh specimens at Castle Howard on June 10th, 1897 (*G.T.P.*); and Mr. John Harrison has since reported it from Barnsley.

Ephippiphora ehippana Hüb. = *populana* Fab. Skipwith (*C.D.A.*).

Olindia ulmana Hüb. Saltburn (*G.T.P.*).

* *Semasia janthinana* Dup. Mr. Corbett records this species from Doncaster in 1889 or 1890.

Semasia rufillana Zell. Carlton-in-Cleveland (*T.A.L.*); Skipwith (*C.D.A.*).

Semasia wœberana Schiff. Huddersfield! (*G.T.P.*); Doncaster! (*H.H.C.*).

* *Coccyx cosmophorana* Tr. Two specimens taken on Skipwith Common, May 30th, 1903, by the Rev. C. D. Ash.

Coccyx splendidulana Gn. Everingham!! (*J. Sumner*).

Coccyx argyrana Hüb. Probably abundant everywhere. Barnsley (*J.H.*); Elland!! (*G.T.P.*); Everingham! (*J. Sumner*); Skipwith (*C.D.A.*).

Coccyx hyrciniana Uslar. = *tædana* Clerck. Everingham! (*J. Sumner*).

Coccyx distinctana Bent. One at Barden-in-Wharfedale in 1900 (*E.P.P.B.*).

Coccyx ustomaculana Curt. Bingley Wood (*E.P.P.B.*).

* *Coccyx nanana* Tr. The Rev. C. D. Ash found this species at Sledmere on July 3rd, 1901.

Coccyx vacciniana Fisch. Bingley! (*E.P.P.B.*).

Heusimene fimbriana Steph. Doncaster (*H.H.C.*).

Pamplusia monticolana Mann. Harden Moor, Bingley (*E.P.P.B.*); Greetland Moors, Halifax, in July 1893 (*Dan Robinson*, Nat., May 1894, p. 158).

Retinia buoliana W.I. Skipwith Common (*C.D.A.*).

Retinia pinicolana DbI. Everingham!! (*J. Sumner*); Skipwith (*C.D.A.*).

* *Retinia turionana* Hüb. Taken at Skipwith Common by the Rev. C. D. Ash.

Retinia pinivorana Zell. Bingley! (*E.P.P.B.*); Huddersfield (*G.T.P.*); Skipwith Common (*C.D.A.*).

(*Retinia resinana* L. Mr. B. Blaydes Thompson points out that this record in the old list was probably an error, and I agree with him).

Carpocapsa pomonana L. Barnsley (*J.H.*); Doncaster (*H.H.C.*); Everingham (*J. Sumner*); Huddersfield (*G.T.P.*); Ingleby Greenhow!! (*F.E.*).

Stigmonota internana Gn. Skipwith (*C.D.A.*).

Stigmonota regiana Zell. Bingley (*E.P.P.B.*); Everingham! (*J. Sumner*); Crosland Hall, Huddersfield, in 1897 (*G.T.P.*).

Dicrorampha plumbana Scop. Bingley (*E.P.P.B.*); Grassington (*G.T.P.*); Huddersfield (*G.T.P.*).

* *Dicrorampha saturnana* Gn. I found this species in the greatest profusion among tansy for a considerable distance along the banks of the Wharfe at Tadcaster, on the occasion of the Y.N.U.'s excursion there on June 10th, 1899. I was so surprised at the abundance of a day-flying and so distinct a species being hitherto unrecorded for the county, that I submitted specimens to Mr. C. G. Barrett, who at once confirmed my determination.

* *Dicrorampha acuminatana* Zell. Mr. W. Hewett sent me this species to name, as taken by Mr. J. Sumner at Everingham, in 1897.

Dicrorampha herbosana Barrett. Barnsley (J.H.); Blubberhouses!! (Lord Walsingham); Huddersfield, not uncommon (G.T.P.).

Catoptria scopoliana Haw. = *hohenwarthiana* Gn. Scarborough (G.T.P.).

Catoptria expallidana Haw. In addition to my own capture at Huddersfield, I afterwards found a specimen among the late Mr. George Liversedge's micro-lepidoptera (see Nat., March 1886, p. 66).

* *Lobesia servillana* Dup. Taken by Mr. T. Wilson, in May, 1884, among sallows in Askham Bogs (see Nat., March 1885, p. 174).

Eupœcilia nana Haw. Barnsley (J.H.); Bingley!! (E.P.P.B.).

* *Eupœcilia dubitana* Hüb. Mr. S. L. Mosley found this species in abundance on the fence at the bottom of Beaumont Park, Huddersfield, in June 1884, and in the following year I saw it in profusion at the same place. Mr. John Harrison has since found it at Barnsley.

Eupœcilia atricapitana Steph. Bingley (E.P.P.B.); Everingham (J. Sumner).

Eupœcilia maculosana Haw. Barnsley (J.H.); Bingley! (E.P.P.B.).

Eupœcilia hybridellana Hüb. = *carduana* Zell. Holly Carrs, Skipwith (C.D.A., Nat., 1895, p. 92).

Eupœcilia angustana Hüb. Harden Moor, and Blackhills, Bingley! (E.P.P.B.).

* *Eupœcilia vectisana* *Westw.* Mr. H. H. Corbett made this very interesting addition to our list, by finding it in some numbers on marshy ground at Rushy Moor, Askern, in July 1897 (*Nat.*, August 1897, p. 242).

Eupœcilia ciliana *Hüb.* Bingley (*E.P.P.B.*).

Xanthosetia hamana *L.* Saltburn (*J.H.*); Skipwith (*C.D.A.*).

Argyrolepia baumanniana *W.V. = hartmanniana* *Clerck.*
Askham Bogs! May 31st, 1890 (*G.T.P.*); Everingham!! (*J. Sumner*).

Argyrolepia badiana *Hüb.* Bingley (*E.P.P.B.*); Edlington (*J.H.*); Everingham! (*J. Sumner*).

Argyrolepia cnicana *Dbl.* Probably common among thistles everywhere. Doncaster! (*H.H.C.*); Huddersfield (*G.T.P.*); Skipwith Common (*C.D.A.*).

Conchylis stramineana *Haw.* Barnsley (*J.H.*).

(*Conchylis gigantana* *Gn.* Another species which had better be deleted from the first list).

Tortricodes hyemana *Hüb.* Barnsley (*J.H.*); Huddersfield (*G.T.P.*).

TINEÆ.

Lemnatophila phryganella *Hüb.* Barnsley (*J.H.*); Bishop's Wood (*G.T.P.*); Doncaster!! (*H.H.C.*); Everingham!! (*J. Sumner*); Huddersfield! (*G.T.P.*); Skipwith!! (*C.D.A.*).

Lemnatophila salicella *Hüb.* One in Wheatley Wood, Doncaster, in 1894 (*H.H.C.*).

Exapate gelatella *L.* Bred freely from larvæ found in profusion on bilberry at Dunford Bridge in 1887 (*J.H.*); Everingham (*J. Sumner*); Skipwith Common (*C.D.A.*).

Diurnea fagella *W. V.* Now nearly all are black at Huddersfield (*G. T. P.*); "mostly dark at Doncaster" (*H. H. C.*).

Talæporia pseudo-bombycella *Och.* Skipwith (*C. D. A.*).

* *Psyche opacella* *H. - S.* In the autumn of 1900, Mr. George Rose brought me for examination a large *Psyche* case which he had found sticking to a tree trunk in Dunford Bridge Wood. Mr. C. G. Barrett determined it as *P. opacella*.

Psyche roborecolella *Br. = intermediella* *Brd.* Doncaster! (*H. H. C.*); Huddersfield!! (*G. T. P.*).

Solenobia inconspicuellæ *Stn.* Wheatley Wood, Doncaster (*H. H. C.*).

Ochsenheimeria birdella *Curt.* Wheatley, Doncaster (*H. H. C.*).

Scardia emortuella *Zell. = corticella* *Curt.* West Beckfield, near Cottingley!! (*E. P. P. B.*); Edlington Wood (*G. T. P.*); Everingham! (*J. Sumner*); Skipwith (*C. D. A.*).

Scardia arcella *Fab.* Bingley (*E. P. P. B.*, Nat., August 1885, p. 292).

Tinea fulvimitrella *Sodoff.* I found this striking species in abundance on dead but still standing tree trunks in Wharnccliffe Woods, on June 20th, 1888 (*G. T. P.*); Castle Howard (*G. T. P.*); Everingham! (*J. Sumner*).

Tinea fuscipunctella *Haw.* Doncaster (*H. H. C.*).

Tinea semifulvella *Haw.* Everingham! (*J. Sumner*); Skipwith (*C. D. A.*).

Tinea bistrigella *Haw.* Skipwith Common (*C. D. A.*).

Lampronia luzella *Hüb.* Wheatley Wood, Doncaster (*H. H. C.*).

Lampronia prælatella *W. I.* Wilsden, Bingley (*E.P.P.B.*);
Grassington (*E.P.P.B.*).

Lampronia rubiella *Bjrok.* Everingham!! (*J. Sumner*);
Halifax!! (*E. Halliday*); Huddersfield! (*G.T.P.*);
Skipwith (*C.D.A.*).

Micropteryx calthella *L.* Everingham!! (*J. Sumner*).

Micropteryx seppella *Fab.* Apparently very common
and generally distributed (*G.T.P.*).

Micropteryx purpurella *Steph.* Doncaster!! (*H.H.C.*).
Generally common.

Micropteryx semipurpurella *Steph.* Doncaster!! (*H.H.C.*);
Huddersfield (*G.T.P.*); Skipwith (*C.D.A.*). Probably
common everywhere.

Micropteryx unimaculella *Zell.* Doncaster!! (*H.H.C.*);
Skipwith (*C.D.A.*).

Micropteryx sparmanella *Bosc.* Wheatley Wood, Don-
caster (*H.H.C.*).

Micropteryx subpurpurella *Harw.* Another very abun-
dant species. Coxwold!! (*G.T.P.*); Everingham!!
(*J. Sumner*).

Nemophora metaxella *Hüb.* Holly Carrs, Skipwith
(*C.D.A.*, Nat. 1895, p. 92).

Adela fibulella *W. I.* Skipwith (*C.D.A.*).

Adela sulzella *W. I.* = *cræsellæ* *Scop.* Everingham! (*J.*
Sumner).

Adela degeerella *L.* Everingham!! (*J. Sumner*); Kildale
(*T.A.L.*); Holly Carrs, Skipwith (*C.D.A.*).

* *Nemotois fasciellus* *Fab.* Medge Hall, near Thorne,
August 4th, 1902 (*H.H.C.*). An interesting addition to
our list.

Swammerdamia comptella *Hüb.* = *apicella* *Don.?*
Boroughbridge (*G.T.P.*); Skipwith (*C.D.A.*).

Swammerdamia cæsiella Hüb. Everingham !! (*J. Sumner*).

Swammerdamia griseocapitella Stn. Doncaster ! (*H.H.C.*) ; Skipwith (*C.D.A.*).

Swammerdamia pyrella Vill. Probably abundant everywhere. Boroughbridge (*G.T.P.*) ; Huddersfield (*G.T.P.*) ; Wakefield (*G.T.P.*).

Yponomeuta cognatella Hüb. Edlington, Doncaster (*G.T.P.*).

Yponomeuta evonymella L. = *padi* Zell. Huddersfield (*G.T.P.*).

Plutella xylostella L. = *cruciferella* Zell. The variety *rustica* occurs at Huddersfield, and probably along with the type everywhere else.

Plutella porrectella L. Wilsden, Bingley ! (*E.P.P.B.*) ; Everingham !! (*J. Sumner*) ; Huddersfield (*G.T.P.*) ; Skipwith (*C.D.A.*).

Hypolepia sequella L. Edlington ! (*H.H.C.*) ; Elland (*G.T.P.*) ; Harrogate (*B.B.T.*) ; Loftus-in-Cleveland (*T.A.L.*) ; Mirfield (*G.T.P.*).

Hypolepia costella Fab. Skipwith Common (*C.D.A.*).

Harpipteryx scabrella L. Wheatley Wood, Doncaster (*H.H.C.*) ; Everingham !! (*J. Sumner*) ; Skipwith (*C.D.A.*).

Harpipteryx nemorella L. Saltburn ! (*G.T.P.*) ; Skipwith (*C.D.A.*).

Orthotælia sparganella Thunb. Barnsley (*J.H.*) ; Huddersfield ! (*G.T.P.*).

Phibalocera quercella Fab. Askern (*G.T.P.*) ; Bingley (*E.P.P.B.*) ; Everingham !! (*J. Sumner*) ; Huddersfield !! (*G.T.P.*) ; Saltburn (*G.T.P.*).

Exæretia allisella *Stn.* Skipwith (*C.D.A.*), makes a second locality for this interesting species, which was originally named after its discoverer, the late Mr. T. H. Allis, of York.

Depressaria umbellella *Steph.* Skipwith (*C.D.A.*).

Depressaria assimilella *Tr.* Doncaster! (*H.H.C.*); Saltburn (*G.T.P.*).

Depressaria arenella *W.I.* Everingham!! (*J. Sumner*); Skipwith (*C.D.A.*).

Depressaria propinquella *Tr.* Thorne (*G.T.P.*).

Depressaria alstrœmeriella *L.* Doncaster! (*H.H.C.*); Everingham!! (*J. Sumner*); Skipwith (*C.D.A.*); Thorne! (*G.T.P.*).

Depressaria hypericella *Hüb.* Saltburn!! (*G.T.P.*).

Depressaria angelicella *Hüb.* Doncaster! (*H.H.C.*); Saltburn!! (*G.T.P.*).

Depressaria ocellella *Fab.* Hayburn Wyke! (*G.T.P.*).

Depressaria albipunctella *Hüb.* Huddersfield (*G.T.P.*).

Depressaria pulcherrimella *Stn.* Blubberhouses (*Lord Walsingham*); Castle Howard (*G.T.P.*); Everingham! (*J. Sumner*).

Depressaria douglasella *Stn.* I took several at Saltburn in August 1886 (*G.T.P.*).

Depressaria chærophyllivorella *Dbl.* Skipwith (*C.D.A.*).

* *Depressaria weirella* *Stn.* I found this species commonly on tansy flowers after dark at Saltburn in August 1886 (*G.T.P.*); York, August 1887 (*G.T.P.*).

Depressaria badiella *Hüb.* Huddersfield, several in 1887 (*G.T.P.*).

Gelechia rufescentella *Haw.* Saltburn! (*G.T.P.*).

- Gelechia populella* L. Wheatley Wood, Doncaster !
(*H.H.C.*) ; Skipwith Common (*C.D.A.*).
- Gelechia mulinella* Fisch. Everingham !! (*J. Sumner*) ;
Saltburn (*G.T.P.*).
- Gelechia longicornella* Curt. Skipwith (*C.D.A.*).
- Gelechia desertella* Stn. Skipwith Common (*C.D.A.*,
Nat., 1896, p. 88).
- Gelechia politella* Dougl. = *expolitella* D.L. This local
species abounds in the wood and moorland hillside over-
hanging Greenfield railway station (*G.T.P.*) ; Hudders-
field (*G.T.P.*) ; Saltburn (*G.T.P.*).
- Gelechia viscariella* Logan. " Larvæ abundant in shoots
of *Lychnis diurna* in many places near Doncaster "
(*H.H.C.*).
- * *Gelechia tetragonella* Stn. Brought forward as a
species new to Britain in the Ent. Mo. Mag. of October
1895, p. 99, from specimens taken by Mr. John Sang,
in salt marshes near Redcar, the previous July. Mr.
Sang had taken three specimens in 1881, but no more
until 1885.
- Gelechia confinella* Stn. Horton-in-Ribblesdale ! larvæ
in moss on walls in company with those of *Scoparia*
muralis (*G.T.P.*).
- Gelechia proximella* Hüb. Huddersfield !! (*G.T.P.*) ;
Wharnccliffe Woods !! (*G.T.P.*). Probably abundant
everywhere.
- Gelechia vulgella* Hüb. Skipwith (*C.D.A.*).
- Gelechia luculella* Hüb. A pretty species. Huddersfield !!
(*G.T.P.*) ; Wharnccliffe Woods !! (*G.T.P.*).
- Gelechia fugitivella* Zell. Skipwith (*C.D.A.*).
- Gelechia maculella* Harw. Saltburn !! (*G.T.P.*) ; Skipwith
(*C.D.A.*).

Gelechia fraternella Dougl. "Abundant, but very local at Wheatley, Doncaster" (*H.H.C.*).

Gelechia marmorella Harw. Skipwith (*C.D.A.*).

Gelechia obsoletella Fisch. Doncaster, "bred from *Chenopodium*" (*H.H.C.*, Nat., Dec. 1893, p. 370).

Gelechia gemmella L. = *nivea* Harw. Wheatley Wood, Doncaster !! (*H.H.C.*); Huddersfield !! (*G.T.P.*); Skipwith (*C.D.A.*).

Gelechia albicapitella Zell. = *albiceps* Zell. One at Doncaster in 1889 or 1890 (*H.H.C.*).

Gelechia mouffetella W.V. Everingham !! (*J. Sumner*).

Gelechia dodecella L. Huddersfield (*G.T.P.*).

Gelechia tenebrella Hüb. The variety *tenebrosella* Zell. occurs rarely among an abundance of the type at Doncaster (*H.H.C.*).

Gelechia teniolella Tr. Riccall Ings, near Selby (*C.D.A.*).

Gelechia sircomella Stn. Riccall Ings, near Selby (*C.D.A.*).

* *Gelechia sangiella* Stn. Taken by the Rev. C. D. Ash on Skipwith Common in 1894 (Nat., March 1895, p. 93).

Gelechia næviferella Zell. Skipwith (*C.D.A.*).

Gelechia hermannella Fab. "Abundant, but very local at Doncaster" (*H.H.C.*, Nat., Dec. 1893, p. 370); Skipwith (*C.D.A.*).

Gelechia ericinella Zell. Skipwith Common (*C.D.A.*).

Chelaria conscriptella Hüb. = *hübnerella* Don. Castle Howard (*G.T.P.*); Saltburn! (*G.T.P.*); Thorne (*G.T.P.*).

Anarsia spartiella Schr. Skipwith (*C.D.A.*).

Sophronia parenthesella L. Doncaster !! (*H.H.C.*).

Harpella geoffrella L. Wheatley Wood, Doncaster
(*H.H.C.*).

Œcophora flavimaculella *Stn.* Wheatley Wood, Don-
caster !! (*H.H.C.*).

* *Butalis grandipennis* *Haw.* Skipwith (*C.D.A.*).

Butalis fusco-cuprella *Haw.* Everingham ! (*J. Sumner*).

Perittia obscuripennella *Stn.* Skipwith Common
(*C.D.A.*, Nat., 1895, p. 93).

Tinagma sericella *Haw.* Doncaster !! (*H.H.C.*).

* *Röslerstammia erxlebenella* *Fab.* Everingham (*J.*
Sumner).

Argyresthia ephippella *Fab.* Wheatley Wood, Don-
caster !! (*H.H.C.*).

Argyresthia semitestacella *Curt.* Everingham !! (*J.*
Sumner) ; Mirfield !! (*G.T.P.*) ; Wharnccliffe Woods
(*G.T.P.*).

Argyresthia albistriella *Haw.* Skipwith (*C.D.A.*).

Argyresthia conjugella *Zell.* Probably abundant where-
ever mountain ash grows freely. Blubberhouses
(*G.T.P.*) ; Greenfield Wood ! (*G.T.P.*) ; Wharnccliffe
Woods !! (*G.T.P.*).

Argyresthia semifuscella *Haw.* Everingham !! (*J. Sumner*).

Argyresthia retinella *Zell.* Huddersfield (*G.T.P.*) ;
Skipwith (*C.D.A.*) ; York (*G.T.P.*).

Argyresthia curvella L. Everingham !! (*J. Sumner*) ;
Huddersfield !! (*G.T.P.*).

Argyresthia pygmæella *Hüb.* Wharnccliffe Woods
(*G.T.P.*).

Cedestis farinatella *Zell.* Huddersfield ! (*G.T.P.*).

- Ocnerostoma pinariella* Zell. Huddersfield !! (*G.T.P.*);
Skipwith Common !! (*C.D.A.*).
- Gracilaria stigmatella* Fab. Wheatley Wood, Doncaster,
"on poplars" (*H.H.C.*); Skipwith (*C.D.A.*); Thorne
(*G.T.P.*).
- Gracilaria elongella* L. Holly Carrs, Skipwith (*C.D.A.*);
Thorne (*G.T.P.*).
- Gracilaria tringipennella* Zell. Warmsworth, Doncaster
(*H.H.C.*).
- Gracilaria syringella* Fab. Abundant everywhere. A
dark, almost unicolorous variety occurs at Huddersfield,
and no doubt elsewhere (*G.T.P.*).
- * *Gracilaria omissella* Dougl. Skipwith in 1900 (*C.D.A.*).
- Ornix anglicella* Stn. Skipwith (*C.D.A.*).
- Ornix betulævorella* Dbl. Everingham !! (*J. Sumner*).
- Ornix guttella* Haw. Doncaster ! (*H.H.C.*); Skipwith
(*C.D.A.*).
- Coleophora alcyonipennella* Koll. Skipwith (*C.D.A.*).
- Coleophora paripennella* Fisch. York (*T. Wilson*, Nat.,
Oct. 1886, p. 306).
- Coleophora lixella* Zell. Everingham (*J. Sumner*).
- Coleophora albicostella* Haw. Wheatley Wood, Don-
caster !! "about *Ulex*" (*H.H.C.*, Nat., Dec. 1893, p.
370); Skipwith Common (*C.D.A.*, Nat., March 1895,
p. 93).
- Coleophora anatipennella* Hüb. Edlington Wood,
Doncaster (*G.T.P.*).
- Coleophora ibipennella* Heyd. Skipwith (*C.D.A.*).
- Coleophora currucipennella* Fisch. Wheatley Wood,
Doncaster, still remains our only locality for this species,
but it continues to be fairly common there (*G.T.P.*).

Coleophora troglodytella *Stn.* Wadworth, Doncaster,
"on *Pulicaria dysenterica*". (*H.H.C.*).

Coleophora murinipennella *Fisch.* Blubberhouses (*Lord Walsingham*).

Coleophora tengstromella *Dbl.* = *annulatella* *Tgstr.*
Huddersfield, June 26th, 1888 (*G.T.P.*).

Coleophora laricella *Hüb.* Skipwith!! (*C.D.A.*).

Coleophora nigricella *Steph.* Probably abundant everywhere. Huddersfield!! (*G.T.P.*). Mr. J. Braim sent me larvæ from Pickering feeding on "flowering currant," a most unusual food-plant.

Coleophora gryphipennella *Bouche.* Skipwith!! (*C.D.A.*).

Coleophora siccifoliella *Stn.* Skipwith (*C.D.A.*); Askham Bogs, York (*T. Wilson*, Nat., Oct. 1886, p. 306).

Coleophora vitisella *Gregs.* Greenfield Moors, near Huddersfield (*G.T.P.*).

* *Coleophora bicolorella* *Scott.* Sandal Beat and Wheatley Wood, Doncaster (*H.H.C.*).

Coleophora viminetella *Zell.* Skipwith (*C.D.A.*).

Chauliodus chærophyllella *Goe.* Skipwith (*C.D.A.*).

* *Laverna raschkiella* *Fisch.* Mr. H. H. Corbett found this species in abundance at Wheatley Wood, Doncaster, in 1889 or 1890, and afterwards in abundance at Thorne; and when on a visit to me in August, 1896, he also found it on the *Epilobium* growing in my own garden at Crosland Hall, Huddersfield.

Laverna epilobiella *Schr.* Sherburn, June 2nd, 1884 (*Lord Walsingham*).

* *Laverna phragmitella* *Bent.* At the Excursion of the Yorkshire Naturalists' Union to Bishop's Wood, on June 2nd, 1884, Lord Walsingham at once noticed that

the *Typha* heads close to Sherburn Railway Station were abundantly infested with the larvæ of this species, and, from some of the heads gathered, large numbers of the moth were subsequently bred.

Laverna hellerella Dup. = *atra* Harw. Skipwith (C.D.A.).

Chrysoclista flavicapitella Harw. Doncaster!! (H.H.C.); Grassington (G.T.P.); Huddersfield (G.T.P.).

Asychna fuscociliella Stn. "Doncaster" must be deleted as a locality for this species.

Asychna terminella Dale. Wheatley Wood, Doncaster!! (H.H.C.).

Elachista albifrontella Hüb. Skipwith (C.D.A.).

Elachista atricomella Stn. Huddersfield (G.T.P.); Wakefield (G.T.P.).

Elachista luticomella Zell. Doncaster! (H.H.C.); Everingham! (J. Sumner); Skipwith Common (C.D.A.).

Elachista subobscuraella Dbl. = *obscuraella* Stn. Huddersfield (G.T.P.); Skipwith Common (C.D.A.).

Elachista cerussella Hüb. Doncaster, "common but local" (H.H.C.); Skipwith Common (C.D.A.).

* *Elachista paludum* Frey. A specimen I took at Nether-ton, Huddersfield, on June 14th, 1888, was named by Mr. C. G. Barrett as this species.

Elachista biatomella Stn. Rushy Moor, Askern! (H.H.C.).

Elachista subochreella Dbl. = *subalbidella* Schl. Skipwith (C.D.A.).

Tischeria complanella Hüb. Huddersfield, not uncommon (G.T.P.); Wharnccliffe Woods (G.T.P.).

Tischeria emyella Dup. = *marginæa* Harw. Skipwith (C.D.A.).

Tischeria angusticolella Heyd. Dodworth, near Barnsley (*H.H.C.*, Nat., Dec. 1893, p. 371); Wadworth Wood, Doncaster (*H.H.C.*).

Lithocolletis lautella Zell. = *irradiella* Scott. Armthorpe Shaw in 1892 (*H.H.C.*, Nat., Dec. 1893, p. 371).

* *Lithocolletis cavella* Zell. Taken at Wheatley Wood, Doncaster, in 1893 (*H.H.C.*, Nat., Dec. 1893, p. 371); Everingham (*J. Sumner*).

* *Lithocolletis sorbi* Frey. = *aucupariella* Scott. Ingleborough, common in 1886 and 1887; also sparingly at Richmond (*Eustace R. Bankes, M.A.*, in litt., December 17th, 1887); common in mountain ash at Escrick, 1897, and also at Skipwith, near Selby (*C.D.A.*).

* *Lithocolletis cerasicolella* H.-S. This species was discovered as new to Britain by Mr. H. H. Corbett, who bred specimens from leaves of *Prunus avium* gathered at Doncaster early in 1893 (see Nat., April 1893, p. 112; also Entomologist's Mo. Mag. of the same date).

Lithocolletis faginella Mann. Escrick Park, near Selby (*C.D.A.*).

* *Lithocolletis torminella* Frey. Taken at Wadworth Wood, Doncaster, in 1893 (*H.H.C.*); Everingham (*J. Sumner*).

Lithocolletis salicicolella Sircom. Specimens I took at Brockholes and Greenfield Woods Mr. C. G. Barrett believed to be this species (*G.T.P.*); Sheffield (*J. Batty*); Skipwith (*C.D.A.*).

Lithocolletis viminetella Stn. "On banks of the Ouse, near Selby" (*C.D.A.*, Nat., 1896, p. 19).

Lithocolletis ulmifoliella Dup. Skipwith (*C.D.A.*).

Lithocolletis cramerella Fab. Everingham!! (*J. Sumner*); Saltburn (*G.T.P.*).

- Lithocolletis emberizæpennella* *Bouche*. Sheffield (*J. Batty*); Skipwith (*C.D.A.*).
- Lithocolletis nicelliella* *Zell*. Everingham!! (*J. Sumner*).
- Lithocolletis stettinella* *Nicelli*. Wheatley Wood, Doncaster (*H.H.C.*).
- Lyonetia clerkella* *L.* Skipwith (*C.D.A.*).
- Cemiosstoma spartifoliella* *Hüb.* Everingham! (*J. Sumner*).
- Cemiosstoma laburnella* *Heyd.* Probably abundant everywhere.
- Opostega crepusculella* *Fisch.* Greenfield! (*G.T.P.*).
- * *Bucculatrix frangulella* *Göze*. Skipwith in 1900 or 1901 (*C.D.A.*).
- Bucculatrix cristatella* *Tisch.* Doncaster (*H.H.C.*).
- * *Nepticula serella* *Stn.* "Larvæ on *Potentilla tormentilla* on the moors at Ingleborough, beginning of October, 1887" (*Eustace R. Bankes, M.A.*, in litt., December 17th, 1887). Mr. Bankes had previously recorded this species as *Nepticula tormentillella* *H.-S.* (see Ent. Mo. Mag., December 1887, pp. 160 and 260).
- Nepticula pygmæella* *Haw.* Escrick Park, near Selby (*C.D.A.*).
- Nepticula oxyacanthæcolella* *Dbl.* = *oxyacanthella* *Stn.* Escrick Park, near Selby (*C.D.A.*).
- Nepticula septembrella* *Stn.* Skipwith Common (*C.D.A.*).
- Nepticula weaverella* *Dougl.* "Sheffield Moors, as usual," in 1891 (*A. E. Hall* and *J. Bloor*).
- Nepticula argyropezella* *Zell.* Sheffield in 1890 (*J. Batty*, Ent. Record, December 15th, 1890).
- Nepticula microtheriella* *Wing.* Skipwith (*C.D.A.*).

Nepticula aucupariella *Frey*. Ingleborough in 1887 (*Eustace R. Bankes*); Sheffield in 1890 (*J. Batty*, Ent. Record, December 15th, 1890).

Nepticula argentipedella *Zell.* Skipwith Common (*C.D.A.*).

Nepticula angulifasciella *Stn.* Skipwith (*C.D.A.*).

Nepticula aurella *Fab.* Everingham!! (*J. Sumner*).
Probably abundant everywhere.

Bohemannia quadrimaculella *Boehm.* Wheatley Wood, Doncaster (*H.H.C.*).

PTEROPHORI.

Agdistes bennettii *Curt.* "I took another *Agdistes bennettii* down Redcar way, week before last, among the food-plant" (*John Sang* in litt., August 4th, 1884).

Pterophorus dichrodactylus *Mühlig.* I took this distinct species in abundance on tansy flowers at Saltburn in August 1886 (*G.T.P.*).

Pterophorus bertrami *Ross.* Askham Bogs! (*G.T.P.*); Skipwith (*C.D.A.*).

Pterophorus gonodactylus *Schiff.* = *trigonodactylus* *Haw.* Probably abundant wherever coltsfoot grows freely. Everingham! (*J. Sumner*); Skipwith (*C.D.A.*).

Pterophorus acanthodactylus *Hüb.* Everingham!! (*J. Sumner*); Skipwith Common (*C.D.A.*).

* **Pterophorus punctidactylus** *Steph.* = *cosmodactylus* (*H.-S.*). Skipwith Common, near Selby in 1895 (*C.D.A.*, Nat., March 1896, p. 89).

(**Pterophorus phœodactylus** *Hüb.* This species must be deleted from the former list. I can find no satisfactory evidence of its occurrence).

Pterophorus pterodactylus L. = *fuscodactylus* Harw.
Castle Howard !! (*G.T.P.*) ; Skipwith ! (*C.D.A.*).

Pterophorus lithodactylus Tr. Askern ! (*G.T.P.*) ;
Skipwith Common (*C.D.A.*).

* *Pterophorus paludum* Zell. I was much astonished to take a very fine specimen of this species (hitherto only known as British from the Cambridgeshire Fens, and a restricted area in Dorsetshire), right on the open part of Thorne Moor, on July 18th, 1891. The determination has been confirmed by Mr. C. G. Barrett and Mr. Sydney Webb (see Ent. Mo. Mag., October 1891, p. 275, and Nat., October 1891, p. 312). Since then I believe Mr. John Harrison, of Barnsley, has taken another specimen on the same ground.

SUMMARY.

The following Numerical Table, brought down to the end of 1903, will be of interest :—

	YORKSHIRE SPECIES				British Species.	Percentage of Yorkshire Species.
	In Original List, 1883.	Since deleted.	Since added.	As now known.		
Diurni	48	—	—	48	66	72·7
Nocturni.....	80	2	1	79	112	70·5
Geometre	207	3	6	210	283	74·2
Drepanule	3	—	—	3	6	50·0
Pseudo-Bombyces.....	19	—	—	19	28	67·8
Noctuae	224	2	4	226	319	70·8
Deltoides	8	—	—	8	14	57·1
Aventia	1	—	—	1	1	100·0
Pyralides.....	47	3	2	46	77	59·7
Crambites	39	1	3	41	86	47·6
Tortrices	203	3	17	217	346	62·7
Tineae	443	—	18	461	769	59·9
Pterophori ..	18	1	2	19	32	53·1
Alucitina	1	—	—	1	1	100·0
TOTALS	1341	15	53	1379	2140	64·4

INDEX OF GENERA.

Doubleday's nomenclature is adopted in the foregoing list; but, with a view of rendering this Index more useful, the genera adopted in Stainton's Manual are inserted as synonyms, where they differ from those used by Doubleday.

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