

**CHECKLIST OF THE MACROMOTHS,
BUTTERFLIES AND DRAGONFLIES
OF ST. HELENS.
BY R. BANKS.**



Third Edition

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CHECKLIST OF THE MACROMOTHS, BUTTERFLIES AND DRAGONFLIES OF ST. HELENS

1. INTRODUCTION

This is the third edition of this booklet. Since the publication of the first booklet in 1998, there have been 70 moths, 1 butterfly and 1 dragonfly species added to the St Helens list. This reflects the increase in trapping and recording throughout the area in recent years. As with the first edition, you will be able to see at a glance what the status is of the moth, butterfly or dragonfly species that you have caught or seen. Several new people have become interested in moth trapping, and have been out on several occasions with myself. Hopefully they might start trapping in their own areas. Also more people have sent in records of butterflies and dragonflies, increasing our knowledge of our local species. There has recently been a group formed, of which I am the Chairman called "The St Helens Wildlife Recording Group". The group was officially formed on 26th March 2000, and is a group of wildlife enthusiasts whose main aim is to co-ordinate records throughout the borough, with a view to helping raise awareness of the wildlife in St Helens and help preserve habitat. At present, the group meets on an informal, monthly basis. For more information about the meetings you can contact me (see page 47) or you could have a look at the groups Internet web site at www.sthelenswildlife.pwp.blueyonder.co.uk. Since the initial booklet was published, several species have been removed from the St Helens list, as they are now regarded as unsafe records due to our increased knowledge of the moths for our area. A full list of the species that have been removed are printed in this edition, with a list of species which require some sort of confirmation before they can be accepted. This is because certain species cannot be confidently identified without careful inspection.

Moth trapping is essentially a nocturnal pursuit, although there are some daytime flying species. Since I became interested in "mothing" I have spent many a long night with a portable generator and traps with my friends, regularly getting home in the early hours of the next morning. Overcast, humid conditions produce the best catches, with a little rain thrown in for good measure. There tends to be a peak in numbers around July, August, but moths have been recorded in every month of the year around the country. My own personal earliest date was on 30th January 1999, with just one Dotted Border in the trap. By keeping records of species and numbers trapped, you can build up a picture over the years of which species are common within your area, and which are only occasional visitors. You might even get a migrant, although most of these (but not all) occur around coastal sites. A trip to say, The Lizard, Cornwall in October would give you a better chance of trapping migrants. There have been migrants trapped in St. Helens, so you never know what you might get.

Unlike moths, butterflies and dragonflies are the essence of warm summer days. I can think of nothing better than sitting at the side of a well vegetated pond or on a river bank, watching the activities of dragonflies as they go about their daily routines. Or strolling through a flowering meadow or woodland ride on a warm sunny day with an array of beautifully coloured butterflies, flitting around the flowers and trees. Dragonflies are not harmful to humans, they do not bite and have no sting. They can be very inquisitive, and will sometimes approach the observer very closely, which can lead to people mistakenly thinking they are being attacked. If you stand perfectly still, you may even get a dragonfly or butterfly to settle on you. There are 57 species of butterfly and 40 species of dragonfly that breed in Britain. St. Helens, with 24 butterflies and 18 dragonflies has quite a reasonable total for this part of the country, with a few of these species only being found in the last couple of years. With more observers, I'm sure there are more species waiting to be found. I would definitely recommend this pastime to anyone. You will be surprised at what is around our area if only you looked!

2. ACKNOWLEDGMENTS

Since at least 1983, Tom Ferguson has been trapping in Eccleston and other locations within the district but has not done any recording in recent years. In Billinge, F. A. Middlehurst has been trapping since 1985 and I have included his records sent to me via Chris Darbyshire, but he too has not done any recording in recent years. From 1996, there have been three main contributors to the St. Helens list, Chris Wormwell at Marshalls X, Dave Owen in the Town Centre and myself in Parr. Unfortunately, C. W. moved to the Isle of Man in Feb 1998. Also Colin Twist trapped at Laffak for a short period, but has now moved out of the area. Colin has also done a great deal of recording of butterflies and dragonflies within the area in 1997 and 1998. Also included are some records from the Lancashire Wildlife Trust (LWT) which use to be called Lancashire Trust for Nature Conservation, and the Sankey Valley Rangers. Recently, Mike Edmundson has become more active moth trapping at home in the Eccleston Park area near Prescott. Also Colin Davies has started trapping at his home near Queen's Park, and Geoff and Donna Atherton have started trapping at Haydock, and Stan Ward in Newton giving us more coverage for the St Helens area. Many thanks go to all the people who contributed their records, without which this booklet would not be possible.

3. WHERE TO WATCH

Listed below are a sample of areas that are of local interest. They will give you the opportunity to see a wide range of Butterfly and Dragonfly species within the St Helens district:

Siding Lane, Rainford.

Situated off the A570 Rainford By-pass at SD 456 021, this site has a visitors centre and numerous footpaths leading through a variety of habitats. The area is good for butterflies and dragonflies, especially around the fishermen's pond and the car park.

Sankey Valley Country Park.

The Ranger Centre can be found at the rear of the Ship Inn, Blackbrook off the A58 at SJ 535 966. Within the St Helens area, the park runs from Carr Mill Dam to Newton Canal. This location is also excellent for butterflies and dragonflies, and has one of only three known sites in St Helens for Purple Hairstreak, and what was the only site for White-letter Hairstreak. Unfortunately, the Wych Elm in which they bred has died, and with it the colony.

Bold Moss, Sutton

This reclaimed colliery spoil heap at SJ 545 940 which stands on mosses and wetlands, was acquired from British Coal in 1990 by Groundwork, supported by the Countryside Commission, who have subsequently transformed the area into an urban common. With the planting of over 40,000 trees, the creation of several pools and over 3 miles of footpaths, this once derelict land has become an important wildlife sanctuary. There are numerous entrances onto the moss and a leaflet is available from the Groundwork offices. This is a superb area to see good numbers of butterfly and dragonfly species, and has over 80 species of birds that visit the moss. I have recently gained access to this site in July 2000. I have trapped there on several occasions, and have recorded four new species for St Helens, with one of these being the first record for Lancashire, and only the second vice-county record. I have also recorded 17 species of dragonfly and 20 species of butterfly at this site.

Leg O Mutton and Paddock Dam.

These two angling club waters are located either side of Holmes Road, off Knowsley Road at SJ 491 952. They are the only known sites in St Helens for Red-eyed Damselfly, which were newly recorded in 1998. Several other species of dragonfly are recorded here with a few species of butterfly also noted.

Cambourne Pond.

This small man made pond is situated to the north-west of the Laffak housing estate, Blackbrook adjacent to the northern end of the Sankey Valley Park at SJ 533 972. This is one of our premier sites for dragonflies. This location has recorded 12 of the 17 species seen in St Helens. It is not much to look at, but it obviously has something going for it as far as the dragonflies are concerned.

A visit to just these five location at various times of the year will allow you to see most of the butterfly and dragonfly species of the area. There are many more places worth exploring and who knows what might be found. For moth trapping, any of the above sites would produce a wide variety of species throughout the year, but you can virtually trap in any area with people's permission and record moths. Trapping regularly at one site, perhaps your own back garden would build up a better picture of the species within your particular area.

4. INTRODUCTION TO THE SYSTEMATIC LISTS

The lists contain all the macromoths, butterflies and dragonflies reliably record since 1979 up to 2005 with the exception of one record from 1946.

Status of species

The following terms are used.

Resident	Recorded regularly or fairly regularly in the area.
Visitor	Small numbers recorded in the area.
Vagrant	Irregular records for the area i.e. occasional records, or out of habitat records.
Migrant	Irregular records from overseas.

Degree of abundance and distribution

<u>A</u>	<u>B</u>
<u>Degree of abundance</u>	<u>Distribution</u>
Common	Widespread
Fairly common	Fairly widespread
Uncommon	Local
Scarce	
Rare	

The following basic information is given for each species

Bradley & Fletcher number (BFNO), this is the scientific sequence of moths and butterflies.

English name, followed by number of records (in brackets) for the uncommon species only.

Scientific name with author,

Status summary.

Records:

For the commoner species, only dates of the first known records are given (unless otherwise stated).

Some of the records are followed with (PER), "probably earlier records". Which means that the species is so common, that there are probably dates preceding the period covered by this booklet.

For the scarcer species, recorders initials and full dates (were known) are given

Flight times

These can vary from year to year, depending on the weather, but are taken as the average times.

Caterpillar foodplant

Most larvae will eat a variety of foodplants, but some can be very specific.

The butterfly species have BFNO numbers 1526-1626 and would normally run consecutively within the moth list. For the ease of reference, they are produced in a separate list, after the moths. Records of the butterflies of the area are not as comprehensive as the moths, and therefore the data is not as detailed. A lot of the earlier records do not have exact dates and most only give the year that they were seen. The Sankey Valley Ranger Service was formed in 1979 and some of the earlier records refer to survey work done by them. Some species have only been recorded recently, and more detailed records are included for those species. As with the moths, any more information about any species of butterfly would be most welcome.

Dragonflies do not have BFNO numbers and the larvae are carnivorous, feeding on a variety of invertebrate e.g. insect larvae, water flea, snails, small fish and tadpoles. They can also be cannibalistic, with the larger larvae eating the smaller ones. Unfortunately, the records of dragonflies are again very poor and there is not much early data available. A few other recorders and myself have only recently started to record the dragonflies and butterflies in the area, and all our records are included. There have been a few new species recorded for St. Helens in the last two years, as you will see as you read through the systematic lists. As much detail as possible has been gathered, but it is mainly recent dates and any earlier data would again be most welcome. Included in the systematic list is a section on habitat, which gives a brief description of what types of locations you are likely to encounter a particular species.

The following systematic lists contain the data for 333 Macrolepidoptera, 24 Lepidoptera (butterflies) and 19 Odonata (dragonflies).

The recording criteria is as follows:

Migrant/Vagrant. Rare 1-10 records

Migrant/Vagrant. Scarce 11-30 records

Visitor. 31-50 records

Resident. 50+ records

(New.) Species newly recorded for St Helens after 2004

5. THE SYSTEMATIC LIST (MACROMOTHS)

HEPIALIDAE

BFNO	14	
Species	Ghost Moth	<i>Hepialus humuli</i> Linn.
Status	Resident, fairly common and widespread	
Records	Red Brow Wood, TF 6/7/84	
Flight time	June, July	
Foodplant	Roots of grasses and a variety of other plants.	
BFNO	15	
Species	Orange Swift (9)	<i>Hepialus sylvina</i> Linn.
Status	Vagrant, rare	
Records	Eccleston, TF 1/8/84. Bold Moss, RB, KF 8/8/00 (2) Bold Moss, RB, CD 26/8/01 29/7/02 (2) Town Centre, DO 4/8/03 Parr, RB 31/7/05 Queen's Park, CD 16/8/05	
Flight time	Late June to early September	
Foodplant	Roots of bracken, dock, dandelion etc. spends two years as larvae	
BFNO	17	
Species	Common Swift	<i>Hepialus lupulinus</i> Linn.
Status	Resident, common and fairly widespread	
Records	Parr, RB 19/5/97 (PER)	
Flight time	Mid-May to mid-July	
Foodplant	Roots of grasses and other wild and cultivated plants	
BFNO	18	
Species	Map-winged Swift (4)	<i>Hepialus fusconebulosa</i> DeGeer.
Status	Vagrant, rare	
Records	Haydock, G&DA 29/6/01 Bold Moss, RB, CD 15/6/02 9/7/05 (2)	
Flight time	Late May to early July	
Foodplant	Stems and roots of bracken and probably other plants	

Subfamily: ZYGAENIDAE

BFNO	169	
Species	Six-spot Burnet	<i>Zygaena filipendulae</i> Linn.
Status	Resident, common and widespread	
Records	Sankey Valley, SVR 6/7/84, first known date but recorded annually since 1984	
Flight time	Late June to August	
Foodplant	Birds foot trefoil	
BFNO	171	
Species	Narrow-bordered Five-spot Burnet	<i>Zygaena lonicerae latomarginata</i> Tutt.
Status	Resident, fairly common and local	
Records	Bold Moss, RB 2/7/98 good numbers 25/6/99 Steve Palmer did genitalia inspection on this specimen, which confirmed its identification. Sutton Manor Colliery Park, RB 26/6/01 (150+)	
Flight time	Late June and July	
Foodplant	Various species of trefoil, clover and vetch	

SESIIDAE

Subfamily: SESIINAE

BFNO	371	
Species	Lunar Hornet Moth (3)	<i>Sesia bembeciformis</i> Hubn.
Status	Vagrant, rare	
Records	Sankey Valley Park, PG 5/7/82 Bold Moss, PG 20/6/92 Eccleston Park, ME 20/7/98.	
Flight time	July to early August	
Foodplant	For two years in the trunks and upper roots of well-grown willows and occasionally poplar and willow.	

Subfamily: PARANTHRENINAE

BFNO	0737 (New 2003)	
Species	Currant Clearwing (10)	<i>Synanthedon tipuliformis</i> Cl.
Status	Vagrant, rare	
Records	Rob Lane Allotments, N. Le. W. RB, CD 29/6/03 (2) Knowsley Road Allotments, CD 19/6/05 (6) Knowsley Road Allotments, RB, CD 9/7/05	
Flight time	June, July	
Foodplant	In the stems and shoots of black currant, red currant and gooseberry.	

LASIOCAMPIDAE

BFNO	1631	
Species	December Moth (1)	<i>Poecilocampa populi</i> Linn.
Status	Vagrant, rare	
Records	Haydock, G&DA 29/11/01 (m). Only record.	
Flight time	Late October to mid- December	
Foodplant	Variety of deciduous trees, including oak, birch, elm, hawthorn, poplar and lime.	
BFNO	1640	
Species	Drinker (6)	<i>Euthrix potatoria</i> Linn.
Status	Vagrant, rare	
Records	Lea Green, G&DA 5/7/01 (m) Newton, SW 18/7/04 23/7/04 24/7/04 Eccleston Park, ME 03/6/05 1/7/05	
Flight time	July, August	
Foodplant	Various grasses and reeds, including common reed, reed canary-grass, cock's-foot, carex spp and calamagrostis spp.	

DREPANIDAE

BFNO	1646	
Species	Oak Hook-tip (28)	<i>Watsonalla binaria</i> Hufn.
Status	Vagrant, scarce	
Records	Prescot Road, TF 24/7/84 Marshalls X, CW 12/8/96 Town Centre DO 12/ 8 97 11/8/98 13/5/00 Coach Road, RB 27/5/99 Parr, RB 23/7/99 2/8/01 5/8/01 30/5/03 5/8/03 Haydock, G&DA 24/5/01 26/5/01 30/7/01 27/5/05 Eccleston Park, ME 14/8/01 (2) 1/6/04 6/8/04 Queen's Park, CD 18/5/02 13/5/04 Bold Moss, RB, CD 29/7/02 (3) Newton, SW 19/5/04 22/7/05 Sutton Leach, SB&KF 5/6/05 Siding Lane, DO 30/7/05	
Flight time	1 st brood May to June 2 nd brood late July to August	
Foodplant	Oak	
BFNO	1648	
Species	Pebble Hook-tip	<i>Drepana falcataria</i> Linn.
Status	Resident, common and fairly widespread	
Records	Marshalls X CW 30/7/96 (PER)	
Flight time	1 st brood May, June 2 nd brood August	
Foodplant	Birch, occasionally	
BFNO	1651	
Species	Chinese Character	<i>Cilix glaucata</i> Scop.
Status	Resident, fairly common	
Records	Prescot Road, TF 24/7/84	
Flight time	1 st brood May to early June 2 nd brood late July to August	
Foodplant	Hawthorn and blackthorn.	
BFNO	1652	
Species	Peach Blossom	<i>Thyatira batis</i> Linn.
Status	Resident, fairly common and widespread	
Records	Siding Lane, TF 4/7/86	
Flight time	late may to late July, with occasional 2 nd brood late August to early September	
Foodplant	Bramble.	
BFNO	1653	
Species	Buff Arches	<i>Habrosyne pyritoides</i> Hufn.
Status	Resident, fairly common and widespread	
Records	Prescot Road, TF 24/7/84	
Flight time	Late June to early August	
Foodplant	Bramble.	
BFNO	1654	
Species	Figure of Eighty	<i>Tethea ocularis octogesimea</i> Linn.
Status	Resident, fairly common	
Records	Town Centre, DO 20/6/98 (2)	
Flight time	May to July	
Foodplant	Poplar and aspen.	
BFNO	1657	
Species	Common Lutestring	<i>Ochropacha duplaris</i> Linn.
Status	Resident, common and widespread	
Records	Parr, RB 15/7/98	
Flight time	Mid-June to mid- August	
Foodplant	Birch, sometimes oak and alder.	

GEOMETRIDAE

Subfamily: ARCHIEARINAE

BFNO	1661	
Species	Orange Underwing	<i>Archiearis parthenias</i> Linn.
Status	Resident, fairly widespread. Since the initially sightings it has become obvious that this species is fairly common at several sites, especially Bold Moss, Clare's Moss Plantation, Reed's Moss, Sankey Valley and Siding Lane areas.	
Records	Bold Moss, RB 17/3/03 24/3/03 (13) 3/4/03 (2) Reed's Moss, CD 17/3/03 Clare's Moss Plantation, CD 17/3/03 Clare's Moss Plantation, RB 18/3/03 (6) 21/3/03 (12) Reed's Moss, RB, CD 22/3/03 (6) Eccleston Mere, CD 22/3/03 (2) Siding Lane, RB 23/3/03 (10) Sankey Valley Goyt area, DO 24/3/03 (2) Prescot Reservoirs, RB 26/3/03 (3) Sankey Valley Goyt area, RB 29/3/03 (10)	
Flight time	March, April	
Foodplant	Between spun leaves of birch.	

Subfamily: OENOCHROMINAE

BFNO	1663	
Species	March Moth (45)	<i>Alsophila aescularia</i> D&S.
Status	Visitor, uncommon	
Records	Marshalls X, CW 6/3/97 7/3/97 8/3/97 (2) 22/3/97 29/3/97 Parr, RB 24/2/98 23/3/99 26/3/00 31/3/00 7/3/01 (3) 15/3/01 22/3/01 28/3/01 (2) 1/4/01 5/4/01 6/4/01 16/3/02 (2) 22/3/02 8/4/03 12/2/04 (2) 29/3/04 24/3/05 1/4/06 Eccleston Park, ME 8/3/01 (2) 20/3/02 25/3/02 Billinge Plantations, CAD 29/3/01 Queen's Park, CD 22/3/02 23/3/03 27/3/03 (2) 28/3/04 26/3/05 Sankey Valley Park, DO 14/3/04 Newton, SW 8/3/04 15/3/05 17/3/05 31/3/05	
Flight time	March, April	
Foodplant	Variety of deciduous trees.	

Subfamily: GEOMETRINAE

BFNO	1666	
Species	Large Emerald (39)	<i>Geometra papilionaria</i> Linn.
Status	Vagrant, scarce	
Records	Siding Lane, TF 4/7/86 Siding Lane, RB, DO 3/8/96 4/8/96 (2) 2/7/05 (2) Parr, RB 3/7/99 9/7/05 11/7/05 Siding Lane, RB, CD, MB 1/7/00 (3) Bold Moss, RB, KF 6/7/00 (6) 20/7/00 Siding Lane, RB, CD 22/7/00 23/6/01 (3) 15/6/02 (3) Siding Lane, DO 26/7/02 Newton, SW 1/7/04 11/7/04 25/7/04 9/7/05 14/7/05 Bold Moss, RB, CD 9/7/05 (4) Garswood, DO 9/7/05 Eccleston Park, ME 11/7/05 Town Centre, DO 23/7/05	
Flight time	Late June to early August	
Foodplant	Mainly birch.	

BFNO	1667	
Species	Blotched Emerald (1)	<i>Comibaena bajularia</i> D&S.
Status	Vagrant, rare	
Records	Queen's Park, CD 29/6/02. Only record.	
Flight time	Late June, July	
Foodplant	Oak.	

BFNO	1669	
Species	Common Emerald	<i>Hemithea aestivaria</i> Hubn.
Status	Resident, common and widespread	
Records	Eccleston, TF 18/7/84	
Flight time	Late June, July	
Foodplant	Variety of trees and shrubs, i.e. hawthorn, blackthorn, birch and willow.	

Subfamily: STERRHINAE

BFNO	1682	
Species	Bloodvein	<i>Timandra comae</i> Peters.
Status	Resident, fairly common	
Records	Sutton Manor, CW 14/6/97	
Flight time	1 st brood late May to early July 2 nd brood August, September	
Foodplant	Dock, sorrel, knotgrass and orache.	

BFNO	1689	
Species	Mullein Wave (3)	<i>Scopula marginepunctata</i> Goeze.
Status	Vagrant, rare	
Records	Coach Road, CW 1/8/97 Town Centre, DO 8/9/98 8/5/00	
Flight time	1 st brood June, July 2 nd brood August, September	
Foodplant	Mugwort, yarrow, plantain.	

BFNO	1702	
Species	Small Fan-footed Wave	<i>Idaea biselata</i> Hufn.
Status	Resident, common and widespread	
Records	Siding Lane, TF 26/7/91 (PER)	
Flight time	Late June to mid-August	
Foodplant	Withered leaves of dandelion, bramble, knotgrass, and plantain.	
BFNO	1707	
Species	Small Dusty Wave (49)	<i>Idaea seriata</i> Schrank.
Status	Visitor, uncommon	
Records	Parr, RB 15/8/00 13/9/00 1/9/01 23/9/01 27/9/01 2/9/02 19/9/02 22/6/03 13/7/03 (3) 4/9/03 (2) 7/9/03 8/9/03 12/9/03 13/9/03 (5) 14/9/03 16/9/03 17/9/03 22/9/03 23/7/04 29/10/04 5/7/05 9/7/05 11/7/05 12/7/05 31/7/05 3/9/05 12/9/05 Queen's Park, CD 4/10/01 4/9/02 12/9/02 19/6/03 26/8/03 27/8/03 27/9/03 6/6/04 3/9/04 30/9/04 28/8/05 30/8/05 Town Centre, DO 23/8/03 30/8/05 Eccleston, KM 3/9/04	
Flight time	1 st brood late June and July, 2 nd brood mid-August to mid-September	
Foodplant	Ivy, and probably various low plants.	
BFNO	1708	
Species	Single-dotted Wave	<i>Idaea dimidiata</i> Hufn.
Status	Resident, common and widespread	
Records	Eccleston, TF 15/7/86	
Flight time	Late June to early August	
Foodplant	Cow parsley.	
BFNO	1713	
Species	Riband Wave	<i>Idaea aversata</i> Linn.
Status	Resident, common and widespread	
Records	Mucky Mountains, TF 6/7/84	
Flight time	Mid-June to mid-August	
Foodplant	Low plants, e.g. bedstraw, knotgrass, and chickweed.	
BFNO	1716	
Species	Vestal (3) (migrant species)	<i>Rhodometra sacraria</i> Linn.
Status	Migrant, rare	
Records	Town Centre, DO 30/8/00 Parr, RB 20/10/01 Neton, SW 4/9/05	
Flight time	Almost anytime throughout the year	
Foodplant	In captivity on dock and knotgrass.	
Subfamily: LARENTIINAE		
BFNO	1719	
Species	Oblique Carpet (15)	<i>Orthonama vittata</i> Bork.
Status	Vagrant, scarce	
Records	Bold Moss, RB, CD 26/8/01 (3) 15/6/02 31/5/03 (10) Parr, RB 1/6/02	
Flight time	1 st brood late May, June 2 nd brood August, September	
Foodplant	Various species of bedstraw.	
BFNO	1720	
Species	Gem (6) (migrant species)	<i>Orthonama obstipata</i> Hufn.
Status	Migrant, rare	
Records	Marshalls X, CW 12/8/96 Parr, RB 19/7/98 27/7/98 28/6/00 Eccleston Park, ME 27/7/02 Queen's Park, CD 28/10/03	
Flight time	April to October	
Foodplant	In captivity on knotgrass, groundsel etc.	
BFNO	1722	
Species	Flame Carpet	<i>Xanthorhoe designata</i> Hufn.
Status	Resident, fairly common and widespread	
Records	Marshalls X, CW 21/8/96	
Flight time	1 st brood May, June 2 nd brood August	
Foodplant	Cabbage, wallflower and other crucifers.	
BFNO	1725	
Species	Dark-barred Twin-spot Carpet	<i>Xanthorhoe ferrugata</i> Cl.
Status	Resident, common and widespread	
Records	Eccleston, TF 29/7/89	
Flight time	Late May to early July	
Foodplant	Various low plants.	

BFNO	1727	
Species	Silver-ground Carpet	<i>Xanthorhoe montanata</i> D&S.
Status	Resident, common and widespread	
Records	Stanley Bank Meadow, TF 12/7/85	
Flight time	Late May to mid-July	
Foodplant	Bedstraws and primrose.	
BFNO	1728	
Species	Garden Carpet	<i>Xanthorhoe fluctuata fluctuata</i> Linn.
Status	Resident, common and widespread	
Records	Eccleston, TF 18/7/84 (PER)	
Flight time	April to October	
Foodplant	Crucifers e.g. garlic mustard.	
BFNO	1732	
Species	Shaded Broad-bar	<i>Scotopteryx chenopodiata</i> Linn.
Status	Resident, common and widespread	
Records	Marshalls X, CW 24/7/96 (PER)	
Flight time	July, August	
Foodplant	Vetches and clovers.	
BFNO	1738	
Species	Common Carpet	<i>Epirrhoe alternata</i> Mull.
Status	Resident, common and widespread	
Records	Siding Lane, TF 4/7/86	
Flight time	June, July	
Foodplant	Bedstraws	
BFNO	1742	
Species	Yellow Shell	<i>Campptogramma bilineata</i> Linn.
Status	Resident, common and widespread	
Records	Parr, RB 9/7/96 (PER)	
Flight time	Mid-June to mid-August	
Foodplant	Dock, chickweed and other low plants.	
BFNO	1746	
Species	Shoulder Stripe (2)	<i>Anticlea badiata</i> D&S.
Status	Vagrant, rare	
Records	Parr, RB 1/4/04 2/4/04	
Flight time	March, April	
Foodplant	Wild rose.	
BFNO	1748	
Species	Beautiful Carpet (6)	<i>Mesoleuca albicillata</i> Hubn.
Status	Vagrant, rare	
Records	Siding Lane, CW, DO, RB 3/8/96 (2) Siding Lane, RB, KF 18/6/99 Haydock, G&DA 3/7/01 Parr, RB 13/6/03 Town Centre, DO 16/7/05	
Flight time	June, July	
Foodplant	Bramble, raspberry.	
BFNO	1749	
Species	Dark Spinach (7)	<i>Pelurga comitata</i> Linn.
Status	Vagrant, rare	
Records	Parr, RB 17/7/96 25/7/98 30/7/00 14/8/02 Town Centre, DO 21/7/98 Bold Moss, RB, G&DA 22/7/01 Newton, SW 26/7/04	
Flight time	July, August	
Foodplant	Goosefoot and orache.	
BFNO	1752	
Species	Purple Bar (12)	<i>Cosmorhoe ocellata</i> Linn.
Status	Vagrant, scarce	
Records	Siding Lane, TF 28/7/89 Billinge Hill, CD 28/7/94 Siding Lane CW, DO, RB 15/8/97. Siding Lane, RB, DO 20/5/99 2/7/05 Eccleston Park, ME 8/6/03 5/6/04 Windle Wildflower Fields, RB, CD 16/8/03 (5)	
Flight time	Late May to early July	
Foodplant	Hedge bedstraw and other bedstraws.	
BFNO	1754	
Species	Phoenix (3)	<i>Eulithis prunata</i> Linn.
Status	Vagrant, rare	
Records	Colliery Wood, TF 17/8/86 Queen's Park, CD 8/7/01 Parr, RB 13/8/05	
Flight time	July, August	
Foodplant	Black and red currant, gooseberry.	

BFNO	1755	
Species	Chevron	<i>Eulithis testata</i> Linn.
Status	Resident, fairly common but local	
Records	Bold Moss, CW, RB 17/8/97	
Flight time	Late July to August	
Foodplant	Sallow, birch.	
BFNO	1757	
Species	Spinach (17)	<i>Eulithis mellinata</i> Fabr.
Status	Vagrant, scarce	
Records	Eccleston, TF 5/7/86 14/7/86 16/7/86 23/7/87 Parr, RB 28/6/97 19/6/98 5/7/98 (2) 24/6/99 3/7/99 2/7/00 Mossborough Hall, RB, CD 21/7/00 Town Centre, DO 1/7/01 15/6/03 Haydock, G&DA 16/7/01 Queen's Park, CD 15/7/02 25/6/03	
Flight time	Mid-June to early August	
Foodplant	Red and black currant.	
BFNO	1758 (New 2005)	
Species	Barred Straw (3)	<i>Eulithis pyraliata</i> D&S.
Status	Vagrant, rare	
Records	Newton, SW 8/7/05 12/7/05 13/7/05	
Flight time	Mid-June to early August	
Foodplant	Various species of bedstraw, including cleavers.	
BFNO	1759	
Species	Small Phoenix	<i>Ecliptopera silaceata</i> D&S.
Status	Resident, common and widespread	
Records	Eccleston, TF 16/7/86	
Flight time	May, June; occasional 2 nd brood August	
Foodplant	Rosebay and broad-leaved willowherb.	
BFNO	1760	
Species	Red-green Carpet	<i>Chloroclysta siterata</i> Hufn.
Status	Resident, fairly common. Since the initial sighting, this species has been recorded annually in varying numbers from several areas.	
Records	Eccleston Park, ME 26/9/00	
Flight time	September, October and after hibernation, April, May	
Foodplant	Oak, rowan and probably other deciduous trees.	
BFNO	1762	
Species	Dark Marbled Carpet (3+)	<i>Chloroclysta citrata</i> Linn.
Status	Vagrant, rare	
Records	Billinge, AM occasional, between 2/8/85 to 4/8/89 no exact dates. Eccleston Park, ME 29/8/00, first recent record.	
Flight time	July, August	
Foodplant	Sallow, birch, bilberry and wild strawberry.	
BFNO	1764	
Species	Common Marbled Carpet	<i>Chloroclysta truncata</i> Hufn.
Status	Resident, common and widespread	
Records	Siding Lane, CW, DO, RB 1/9/96 (PER)	
Flight time	1 st brood May, June 2 nd brood late August to early November	
Foodplant	Sallow, birch, hawthorn, bilberry, bramble, privet, rose, dock.	
BFNO	1765	
Species	Barred Yellow	<i>Cidaria fulvata</i> Forst.
Status	Resident, fairly common	
Records	Marshalls X, CW 28/6/96	
Flight time	June, July	
Foodplant	Wild rose	
BFNO	1766	
Species	Blue-bordered Carpet (3)	<i>Plemyria rubiginata rubiginata</i> D&S.
Status	Vagrant, rare	
Records	Eccleston Park, ME 29/7/01 13/8/03 Parr, RB 12/8/02	
Flight time	Late June to early August	
Foodplant	Alder and blackthorn, and probably birch, apple, plum and cherry.	

BFNO	1768	
Species	Grey Pine Carpet (38)	<i>Thera obeliscata</i> Hubn.
Status	Visitor, uncommon	
Records	Parr, RB 17/5/97 12/5/98 22/9/98 23/9/98 13/5/99 17/6/00 4/10/00 22/6/02 2/10/02 7/6/04 Town Centre, DO 27/5/97 8/9/98 29/5/05 Siding Lane, RB, DO 20/5/99 17/6/06 (2) Siding Lane, RB, KF 18/6/99 Eccleston Park, ME 14/9/00 (2) 30/9/00 8/10/00 11/10/01 12/10/01 13/10/01 5/6/02 19/8/02 24/5/04 Queen's Park, CD 2/7/01 20/9/01 2/9/02 4/9/02 30/9/02 23/10/04 Siding Lane, RB, G&DA 29/9/01 (2) Haydock, G&DA 2/10/01 Newton, SW 4/10/04 Siding Lane, RB, DO, G&DA	
Flight time	1 st brood late May to mid-July 2 nd brood September, October	
Foodplant	Pine, Norway spruce Douglas fir and other conifers.	
BFNO	1769	
Species	Spruce Carpet (27)	<i>Thera britannica</i> Turner.
Status	Vagrant, scarce	
Records	Haydock, G&DA 19/9/01 11/10/01 29/4/05 Eccleston Park, ME 28/9/01 24/10/01 7/6/02 22/9/02 28/9/02 30/5/03 2/6/03 1/9/03 7/9/03 30/9/03 24/5/04 Parr, RB 11/10/01 21/9/02 5/11/03 29/10/04 6/10/05 11/6/06 Queen's Park, CD 14/10/01 18/6/02 20/6/02 Town Centre, DO 12/6/03 Newton, SW 23/10/04 31/8/05 Mercer Road, RB 23/6/06	
Flight time	1 st brood May to early July 2 nd brood September, October	
Foodplant	Norway spruce, douglas fir and other species of picea.	
BFNO	1771	
Species	Juniper Carpet (12)	<i>Thera juniperata juniperata</i> Linn.
Status	Vagrant, scarce	
Records	Marshalls X, CW 23/10/96 Haydock, G&DA 10/10/01 11/10/01 (2) 15/10/01 17/10/01 26/10/04 Parr, RB 14/10/01 Liverpool-St Helens, RB 14/10/01 16/10/01 Eccleston Park, ME 15/10/01 Newton, SW 23/10/04	
Flight time	Mid-October to mid-November	
Foodplant	Juniper.	
BFNO	1773	
Species	Broken-barred Carpet (20)	<i>Electrophaes corylata</i> Thunb.
Status	Vagrant, scarce	
Records	Parr, RB 3/6/97 13/5/98 16/5/98 17/5/98 4/6/98 10/5/02 Siding Lane, RB, DO 20/5/99 (6) 7/6/03 12/5/04 Eccleston Park, ME 23/5/01 18/6/02 21/6/02 29/5/04 6/6/04 Haydock, G&DA 28/5/01	
Flight time	May, June	
Foodplant	Birch, oak, hawthorn, blackthorn and other trees.	
BFNO	1776	
Species	Green Carpet (5)	<i>Colostygia pectinataria</i> Knoch.
Status	Vagrant, rare	
Records	Eccleston Park, ME 30/7/01 31/7/02 23/8/02 4/9/03 8/8/05	
Flight time	Late May to early July, with an occasional and partial second brood	
Foodplant	Various species of bedstraw.	
BFNO	1777	
Species	July Highflyer	<i>Hydriomena furcata</i> Thunb.
Status	Resident, common and widespread	
Records	Siding Lane, TF 4/7/86	
Flight time	July, August	
Foodplant	Sallow, bilberry, heather, and hazel.	
BFNO	1778	
Species	May Highflyer	<i>Hydriomena impluviata</i> D&S.
Status	Resident, common and widespread	
Records	Siding Lane, TF 4/7/86	
Flight time	Late May to early July	
Foodplant	Alder.	
BFNO	1789	
Species	Scallop Shell (9)	<i>Rheumaptera undulata</i> Linn.
Status	Vagrant, rare	
Records	Siding Lane, CW, DO, RB 3/8/96 4/8/96 Parr, RB 15/7/98 Siding Lane, RB, KF 18/6/99 Haydock, G&DA 10/7/01 Eccleston Park, ME 25/7/01 30/5/03 Siding Lane, DO 26/7/02 Siding Lane, RB, DO 2/7/05	
Flight time	June, July	
Foodplant	Sallow, bilberry.	
BFNO	1795	
Species	November Moth	<i>Epirrita dilutata</i> D&S.
Status	Resident, fairly common	
Records	Parr, RB 22/10/96	
Flight time	October, November	
Foodplant	Hawthorn, oak, birch, elm, blackthorn, ash, apple, plum etc.	

BFNO	1799	
Species	Winter moth (45)	<i>Operophtera brumata</i> Linn.
Status	Visitor, uncommon	
Records	Marshalls X, CW 16/11/96 Sherdley Park, DO 30/11/98 Haydock, G&DA 3/11/01 15/11/01 16/11/01 (2) 18/11/01 (2) 20/11/01 (2) 23/11/01 24/11/01 (6) 25/11/01 (3) 26/11/01 28/11/01 (5) 29/11/01 (2) 30/11/01 1/12/01 8/12/01 5/1/02 Sankey Valley Park, DO 30/11/01 22/11/03 6/12/04 9/12/04 13/12/04 Eccleston Park, ME 28/11/01 Queen's Park, CD 26/11/02 4/12/02 Parr, RB 3/12/03 5/12/03 2/12/03 Newton, SW 18/11/03 Sutton Leach, SB&KF 3/12/05	
Flight time	Late autumn throughout the winter	
Foodplant	Most trees and shrubs.	
BFNO	1802	
Species	Rivulet	<i>Perizoma affinitata</i> Steph.
Status	Resident, fairly common and widespread	
Records	Siding Lane, TF 4/7/86	
Flight time	Late May to early July	
Foodplant	Seed capsules of red campion.	
BFNO	1803	
Species	Small Rivulet	<i>Perizoma alchemillata</i> Linn.
Status	Resident, fairly common and widespread	
Records	Siding Lane, TF 28/7/89	
Flight time	June, July	
Foodplant	Flowers and seeds of hemp nettle.	
BFNO	1804	
Species	Barred Rivulet	<i>Perizoma bifaciata</i> Haw.
Status	Resident, fairly common and fairly widespread	
Records	Parr, RB 2/8/97 (PER)	
Flight time	July, August	
Foodplant	Seeds of red bartsia.	
BFNO	1807	
Species	Grass Rivulet (2)	<i>Perizoma albulata</i> D&S.
Status	Vagrant, rare	
Records	Marshalls X, CW 5/7/97 Parr, RB 7/8/00.	
Flight time	Late May to early July	
Foodplant	Ripening seeds of yellow rattle.	
BFNO	1808	
Species	Sandy Carpet (49)	<i>Perizoma flavofasciata</i> Thunb.
Status	Visitor, uncommon	
Records	Parr, RB 29/5/97 16/5/98 13/5/00 2/7/01 6/7/01 17/6/02 27/5/03 22/6/03 9/7/03 25/5/05 Siding Lane, RB, DO 20/5/99 (2) 2/7/05 (3) 16/5/06 17/6/06 Coach Road, RB 27/5/99 (2) Siding Lane, RB, KF 18/6/99 Siding Lane, RB 24/6/99 (2) Siding Lane, RB, CW 20/5/01 Eccleston Park, ME 23/5/01 27/5/01 16/5/02 16/5/04 4/7/04 Haydock, G&DA 26/6/01 23/5/05 25/5/05 (2) Siding Lane, DO 26/7/02 (2) Windle Wildflower Fields, RB CD 5/7/03 (3) Newton, SW 5/6/04 7/6/04 5/7/04 20/5/05 17/6/05 12/7/05 20/7/05 14/5/06 3/6/06 17/6/06 Sankey Valley, G&DA 21/5/05 Queen's Park, CD 26/5/05	
Flight time	June, July	
Foodplant	Seedpods of red campion or other campions.	
BFNO	1811	
Species	Slender Pug	<i>Eupithecia tenuiata</i> Hubn.
Status	Resident, fairly common and widespread	
Records	Parr, RB 20/7/97	
Flight time	June, July	
Foodplant	Sallow catkins.	
BFNO	1816	
Species	Toadflax Pug	<i>Eupithecia linariata</i> D&S.
Status	Resident, fairly common	
Records	Town Centre, DO 6/7/97 (2)	
Flight time	July, August	
Foodplant	Flowers and seed capsules of wild toadflax.	
BFNO	1817	
Species	Foxglove Pug	<i>Eupithecia pulchellata</i> Steph.
Status	Resident, fairly common and widespread	
Records	Stanley Bank Meadow, TF 12/7/85	
Flight time	May, June	
Foodplant	In the flowers of foxglove.	

BFNO	1819	
Species	Mottled Pug (7)	<i>Eupithecia exiguata exiguata</i> Hubn.
Status	Vagrant, rare	
Records	Eccleston Park, ME 21/6/02 9/6/05 Parr, RB 31/5/03 8/6/06 9/6/06 Queen's Park, CD 9/6/03 Newton, SW 28/5/06	
Flight time	May, June	
Foodplant	On foliage of hawthorn, blackthorn and sycamore.	
BFNO	1823	
Species	Netted Pug (8)	<i>Eupithecia venosata</i> Fabr.
Status	Vagrant, rare	
Records	Parr, RB 20/5/97 28/6/01 17/6/03 2/6/05 Marshalls X, CW 6/6/97 Town Centre, DO 7/6/04 Sutton Leach, SB&KF 7/6/04 Newton, SW 28/5/05	
Flight time	May, June	
Foodplant	Ripening seedpods of bladder campion or, near the coast, sea campion.	
BFNO	1825	
Species	Lime-speck Pug	<i>Eupithecia centaureata</i> D&S.
Status	Resident, common and widespread	
Records	Eccleston, TF 3/9/91	
Flight time	Summer to early autumn (partially double brooded)	
Foodplant	Flowers of many herbaceous plants.	
BFNO	1827	
Species	Freyer's Pug	<i>Eupithecia intricata arceuthata</i> Freyer.
Status	Resident, fairly common but local	
Records	Parr, RB 22/5/99, since the first record this species has been recorded annually in various numbers, but most records are confined to two locations at present.	
Flight time	May, June	
Foodplant	Various species of cypress (cupressus spp. And chamaecyparis spp.)	
BFNO	1830	
Species	Wormwood Pug	<i>Eupithecia absinthiata</i> Clerck.
Status	Resident, common and fairly widespread	
Records	Parr, RB 12/7/97 (PER)	
Flight time	June, July	
Foodplant	Flowers of mugwort, ragwort, goldenrod, sea aster etc.	
BFNO	1831	
Species	Ling Pug (3)	<i>Eupithecia goossensiata</i> Mal.
Status	Vagrant, rare	
Records	Billinge, AM 4/6/98 Parr, RB 13/7/99 8/7/01 Genitalia inspection done by Steve Palmer and Ray Banks. (Originally a separate species)	
Flight time	June, July	
Foodplant	Flowers of heather.	
BFNO	1832	
Species	Currant Pug	<i>Eupithecia assimilata</i> Doubl.
Status	Resident, fairly common and fairly widespread	
Records	Parr, RB 5/8/96 (PER)	
Flight time	1 st brood May, June 2 nd brood August	
Foodplant	Black and red currant.	
BFNO	1834	
Species	Common Pug	<i>Eupithecia vulgata</i> Haw.
Status	Resident, common and widespread	
Records	Parr, RB 29/5/97 (PER)	
Flight time	1 st brood May, June 2 nd brood August	
Foodplant	Leaves of willow, hawthorn, bilberry, flowers and leaves of goldenrod, ragwort.	
BFNO	1835	
Species	White-spotted Pug	<i>Eupithecia tripunctaria</i> H-S.
Status	Resident, common and fairly widespread	
Records	Parr, RB 15/5/97	
Flight time	May to September	
Foodplant	In July flowers of elders; In September ripening seeds of wild angelica and wild parsnip.	
BFNO	1837	
Species	Grey Pug	<i>Eupithecia subfuscata</i> Haw.
Status	Resident, common and widespread	
Records	Parr, RB 27/7/96 (PER)	
Flight time	May, June	
Foodplant	Flowers and leaves of a variety of plants.	

BFNO	1838	
Species	Tawny-speckled Pug	<i>Eupithecia icterata</i> Vill. Ssp. <i>Subfulvata</i> Haw.
Status	Resident, common and widespread	
Records	Eccleston, TF 4/8/91 (PER)	
Flight time	July, August	
Foodplant	Flowers and leaves of yarrow.	
BFNO	1839	
Species	Bordered Pug	<i>Eupithecia succenturiata</i> Linn.
Status	Resident, common and widespread	
Records	Parr, RB 28/7/96 (PER)	
Flight time	July, August	
Foodplant	Leaves of mugwort, feeding at night.	
BFNO	1842	
Species	Plain Pug (33)	<i>Eupithecia simpliciatata</i> Haw.
Status	Vagrant, scarce	
Records	Parr, RB 11/7/98 24/7/98 25/7/98 23/6/99 17/7/99 18/7/99 (2) 30/7/00 23/7/01 24/7/01 25/7/01 26/7/01 30/7/01 6/8/01 5/8/03 9/7/05 (2) 11/7/05 (2) 12/7/05 25/7/05 Town Centre, DO 10/7/99 23/7/99 31/7/99 30/6/01 5/7/01 1/8/01 28/7/02 Bold Moss, RB, KF 8/8/00 Bold Moss, RB, G&DA 22/7/01 (3) Eccleston Park, ME 19/7/03	
Flight time	Mid-June to early August	
Foodplant	Ripening seeds of goosefoot and orache.	
BFNO	1844	
Species	Ochreous Pug (3)	<i>Eupithecia indigata</i> Hubn.
Status	Vagrant, rare	
Records	Queen's Park, CD 20/6/01. A fairly late date, but identity confirmed by genitalia inspection. Parr, RB 26/5/03 Siding Lane, RB, DO, G&DA 26/5/05	
Flight time	April, May	
Foodplant	On buds and young shoots of scots pine.	
BFNO	1846	
Species	Narrow-winged Pug (25)	<i>Eupithecia nanata</i> Hubn.
Status	Vagrant, scarce	
Records	Marshalls X, CW 20/5/97 Town Centre, DO 20/7/98 28/7/98 (2) 3/7/00 17/7/00 (2) Parr, RB 9/8/98 7/7/03 11/7/05 26/7/05 (2) Bold Moss, RB, KF 6/7/00 (5) Bold Moss, RB, CD 23/6/01 (3) Bold Moss, RB, G&DA 22/7/01 Eccleston Park, ME 17/4/03 Queen's Park, CD 9/7/05 10/7/05 Siding Lane, RB, DO 17/6/06	
Flight time	1 st brood April to June 2 nd brood (partial) August	
Foodplant	Flowers of heather.	
BFNO	1851	
Species	Golden-rod Pug	<i>Eupithecia virgaureata</i> Doubl.
Status	Resident, fairly common	
Records	Parr, RB 14/5/00, confirmed by genitalia inspection by Steve Palmer.	
Flight time	1 st brood May, June 2 nd brood August	
Foodplant	In captivity 1 st brood on hawthorn; 2 nd brood on golden-rod and ragwort.	
BFNO	1852	
Species	Brindled Pug	<i>Eupithecia abbreviata</i> Steph.
Status	Resident, fairly common	
Records	Parr, RB 24/4/99	
Flight time	April, May	
Foodplant	Oak leaves.	
BFNO	1853	
Species	Oak-tree Pug (26)	<i>Eupithecia dodoneata</i> Guenee.
Status	Vagrant, scarce	
Records	Parr, RB 8/5/00, female identified by genitalia inspection by S. Palmer. 13/5/00 (2) 14/5/00 10/5/01 (2) 12/5/01 (2) 18/5/01 26/5/01 19/4/02 8/5/02 9/5/02 12/5/02 (2) 1/6/02 1/5/03 (2) 1/5/05 26/5/05 (2) 31/5/05 Town Centre, DO 19/5/00 Eccleston Park, ME 26/5/01 28/5/01 2/6/03	
Flight time	May and early June	
Foodplant	On the leaves of hawthorn, oak, and possibly evergreen oak.	
BFNO	1854	
Species	Juniper Pug (6)	<i>Eupithecia pusillata</i> D&S.
Status	Vagrant, rare	
Records	Rainhill Stoops area, LWT 1/8/85 Parr, RB 9/7/98 Queen's Park, CD 29/7/01 Eccleston Park, ME 4/8/02 17/8/02 19/8/02	
Flight time	July to September	
Foodplant	Juniper and some cultivated conifers.	

BFNO	1856	
Species	Larch Pug (1)	<i>Eupithecia lariciata</i> Freyer.
Status	Vagrant, rare	
Records	Parr, RB 11/8/00. A very late record, confirmed by genitalia examination	
Flight time	May, June	
Foodplant	Larch	
BFNO	1857	
Species	Dwarf Pug (1)	<i>Eupithecia tantillaria</i> Hufn.
Status	Vagrant, rare	
Records	Siding Lane, DO, RB 20/5/99. Only record	
Flight time	May, June	
Foodplant	Norway spruce, Douglas fir.	
BFNO	1858	
Species	V-Pug	<i>Chloroclystis v-ata</i> Haw.
Status	Resident, fairly common and widespread	
Records	Parr, RB 9/7/96	
Flight time	1 st brood May, June 2 nd brood mid- July to mid- August	
Foodplant	Hemp, agrimony, elder, bramble, goldenrod, mugwort, wild angelica.	
BFNO	1860	
Species	Green Pug	<i>Pasiphila rectangularata</i> Linn.
Status	Resident, fairly common and fairly widespread	
Records	Eccleston, TF 2/7/87	
Flight time	June, July	
Foodplant	Wild and cultivated apple, pear, cherry and blackthorn.	
BFNO	1862	
Species	Double-striped Pug	<i>Gymnoscelis rufifasciata</i> Haw.
Status	Resident, common and widespread	
Records	Parr, RB 1/4/97 (PER)	
Flight time	1 st brood April, May 2 nd brood July, August	
Foodplant	Flowers of holly, gorse, broom, ragwort, heather, rowan etc.	
BFNO	1864	
Species	Streak (3)	<i>Chesias legatella</i> D&S.
Status	Vagrant, rare	
Records	Billinge, AM 25/9/89 Parr, RB 13/10/01 Newton, SW 28/10/05	
Flight time	September, October	
Foodplant	Broom.	
BFNO	1867	
Species	Treble-bar (7)	<i>Aplocera plagiata</i> Linn.
Status	Vagrant, rare	
Records	Marshalls X, CW 12/8/96 16/8/96 Eccleston Park, ME 22/6/01 Bold Moss, RB 2/9/02 Newton, SW 15/9/03 11/6/05 18/8/05	
Flight time	July, August	
Foodplant	St. Johns worts.	
BFNO	1874	
Species	Dingy Shell (6)	<i>Euchoeca nebulata</i> Scop.
Status	Vagrant, rare	
Records	Siding Lane, CW, DO, RB 15/8/97 Sankey Valley Park, DO 8/6/04 Queen's Park, CD 2/8/04 9/6/06 Bold Moss, RB 7/6/05 Siding Lane, RB, DO 2/7/05	
Flight time	June to early July	
Foodplant	Alder	
BFNO	1876	
Species	Small Yellow Wave (33)	<i>Hydrelia flammeolaria</i> Hufn.
Status	Vagrant, scarce	
Records	Siding Lane, CW, DO, RB 4/8/96 Town Centre, DO 8/7/97 4/7/99 23/6/01 Siding Lane, RB, KF 18/6/99 (10) Siding Lane, RB 24/6/99 (2) 3/7/04 (2) Siding Lane, RB, CD 22/7/00 Sankey Valley Park, RB 29/6/01 Mossborough Hall, RB, CD 6/7/01 Siding Lane, RB, G&DA 28/7/01 (2) Siding Lane, RB, DO 7/6/03 2/7/05 (6) Queen's Park, CD 22/6/03 Newton, SW 9/7/03 17/6/05	
Flight time	June to early July	
Foodplant	Alder.	
BFNO	1879	
Species	Seraphim	<i>Lobophora halterata</i> Boisd.
Status	Resident, fairly common and local	
Records	Parr, RB 1/5/97	
Flight time	May, June	
Foodplant	Wild privet, ash.	

BFNO 1881
 Species Early Tooth-striped (31) *Trichopteryx carpinata* Borkh.
 Status Visitor, uncommon
 Records Parr, RB 25/3/97 29/4/00 21/4/03 Siding Lane, RB, CD 23/4/00 (7) Siding Lane, RB, KF 26/4/00 (3) Bold Moss, RB, CD 21/4/02 (4) 20/4/03 (2) Siding Lane, RB, DO, CD 12/4/03 (9) Sankey Valley, DO 23/4/03 29/4/03 Newton, SW 25/4/04
 Flight time April, May
 Foodplant Honeysuckle, willow, birch, alder.

BFNO 1883
 Species Yellow-barred Brindle (23) *Acasis viretata* Hubn.
 Status Vagrant, scarce
 Records Parr, RB 30/8/98 24/8/00 10/8/05 Town Centre, DO 12/5/00 Eccleston Park, ME 29/7/01 8/8/01 20/8/01 (2) 10/5/02 26/8/02 13/8/03 18/5/04 24/5/04 (2) 2/6/04 15/5/06 Newton, SW 16/8/03 Queen's Park, CD 24/5/04 15/8/05 17/8/05 17/6/06 Sutton Leach, SB&KF 5/9/04 Haydock, G&DA 19/5/05
 Flight time 1st brood May, June 2nd brood July to early September
 Foodplant Flowers and leaves of holly, ivy, wild privet, guelder rose.

Subfamily: ENNOMINAE

BFNO 1884
 Species Magpie (37) *Abraxas grossulariata* Linn.
 Status Vagrant, scarce. Apparently, this species was quite common at one time, but in recent years there has been a dramatic decline in numbers. Below are the most recent known records.
 Records Town Centre, DO 9/7/97 24/6/99 29/6/05 Sankey Valley, PG 12/7/97 Bold Moss, RB, KF 6/7/00 (7) Queen's Park, CD 2/7/01 6/7/01 5/7/04 Bold Moss, RB, G&DA 22/7/01 (8) Bold Moss, RB, CD 29/7/02 (4) 9/7/05 (10) Newton, SW 15/6/04
 Flight time July, August
 Foodplant Currant, gooseberry, blackthorn, hazel etc.

BFNO 1887
 Species Clouded Border *Lomaspilis marginata* Linn.
 Status Resident, common and widespread
 Records Mucky Mountains, TF 6/7/84
 Flight time June, July
 Foodplant Sallow, aspen, occasionally poplar and hazel.

BFNO 1893
 Species Tawny-barred Angle (10) *Macaria liturata* Clerck.
 Status Vagrant, rare
 Records Siding Lane, RB, KF 18/6/99 Queen's Park, CD 30/7/01 16/6/04 Siding Lane, DO 26/7/02 Town Centre, DO 1/6/03 Siding Lane, RB, DO 7/6/03 2/7/05 17/6/06 Eccleston Park, ME 13/8/03 Bold Moss, RB, G&DA 30/5/05
 Flight time June, July
 Foodplant Scots pine and Norway spruce

BFNO 1894
 Species Latticed Heath *Chiasmia clathrata* Linn.
 Status Resident, common and widespread
 Records Stanley Bank Meadow, TF 12/7/85
 Flight time 1st brood May, June 2nd brood July to September
 Foodplant Lucerne and various species of clover and trefoil

BFNO 1902
 Species Brown Silver-line *Petrophora chlorosata* Scop.
 Status Resident, common and widespread
 Records Parr, RB 16/5/97 (PER)
 Flight time May, June
 Foodplant Bracken.

BFNO 1904
 Species Scorched Wing (16) *Plagodis dolabraria* Linn.
 Status Vagrant, scarce
 Records Siding Lane, RB, DO 20/5/99 7/6/03 17/6/06 (5) Parr, RB 28/6/00 Queen's Park, CD 14/6/03 Newton, SW 6/6/04 7/6/04 16/6/06 Siding Lane, RB, DO, G&DA 26/5/05 8/6/05 (3)
 Flight time Late May and June
 Foodplant Oak, birch, willow and occasionally on beech and sweet chestnut.

BFNO 1906
 Species Brimstone Moth *Opisthograptis luteolata* Linn.
 Status Resident, common and widespread
 Records Eccleston, TF 24/7/85
 Flight time June, July
 Foodplant Hawthorn, blackthorn, rowan, plum etc.

BFNO	1913	
Species	Canary-shouldered Thorn	<i>Ennomos alniaria</i> Linn.
Status	Resident, common and fairly widespread	
Records	Siding Lane, TF 28/7/89	
Flight time	Late July to early October	
Foodplant	Variety of trees e.g. birch, willow, alder, and lime.	
BFNO	1914	
Species	Dusky Thorn	<i>Ennomos fuscantaria</i> Haw.
Status	Resident, fairly common and widespread	
Records	Marshalls X, CW 23/9/96	
Flight time	Late July to early October	
Foodplant	Ash.	
BFNO	1915	
Species	September Thorn (5+)	<i>Ennomos erosaria</i> D&S.
Status	Vagrant, rare	
Records	Billinge, AM occasional, 7/7/85 – 89 no exact dates. Haydock, G&DA 25/7/01 2/8/01 Parr, RB 8/9/02 Queen's Park, CD 19/8/03	
Flight time	July to October	
Foodplant	Oak, lime, birch.	
BFNO	1917	
Species	Early Thorn	<i>Selenia dentaria</i> Fabr.
Status	Resident, common and widespread	
Records	Eccleston, TF 25/7/83	
Flight time	1 st brood April, May 2 nd brood August, September	
Foodplant	Variety of trees and shrubs including hawthorn, birch, alder, willow.	
BFNO	1919	
Species	Purple Thorn (32)	<i>Selenia tetralunaria</i> Hufn.
Status	Visitor, uncommon	
Records	Colliery Wood, TF 14/8/86 16/8/87 Eccleston, TF 23/7/87 28/7/91 4/8/91 Siding Lane, TF 25/7/87 Siding Lane, DA 28/7/89 Siding Lane, CW, DO, RB 3/8/96 (2) Siding Lane, RB, CD 23/4/00 (2) Siding Lane, RB, KF 26/4/00 (3) Haydock, G&DA 6/5/01 12/5/01 30/7/01 Eccleston Park, ME 13/5/01 Siding Lane, RB, G&DA 28/7/01 (2) Siding Lane, RB, DO, CD (6) Newton, SW 15/7/03 20/7/03 1/8/04 30/4/05 30/7/05 4/5/06	
Flight time	1 st brood April, May 2 nd brood August, September	
Foodplant	Birch, oak, alder and other trees.	
BFNO	1920	
Species	Scalloped Hazel	<i>Odontopera bidentata</i> Clerck.
Status	Resident, fairly common	
Records	Eccleston, TF 11/5/90	
Flight time	May, June	
Foodplant	Oak, birch, garden privet, pine, hawthorn etc.	
BFNO	1921	
Species	Scalloped Oak	<i>Crocallis elinguaris</i> Linn.
Status	Resident, common and widespread	
Records	Eccleston, TF 25/7/83	
Flight time	July, August	
Foodplant	Most deciduous trees and shrubs.	
BFNO	1922	
Species	Swallow-tailed Moth	<i>Ourapteryx sambucaria</i> Linn.
Status	Resident, common and widespread	
Records	Eccleston, TF 18/7/84	
Flight time	Late June, July	
Foodplant	Ivy and a variety of trees and shrubs.	
BFNO	1923	
Species	Feathered Thorn	<i>Colotois pennaria</i> Linn.
Status	Resident, fairly uncommon	
Records	Eccleston, TF 13/10/90	
Flight time	Mid-September to mid-November	
Foodplant	Various trees and shrubs e.g. oak, birch, willow, hawthorn, elm, blackthorn.	

BFNO	1926	
Species	Pale Brindled Beauty (16)	<i>Phigalia pilosaria</i> D&S
Status	Vagrant, scarce	
Records	St Helens RLFC, RB 16/2/01 Haydock, G&DA 20/1/02 11/2/02 Parr, RB 16/2/02 22/1/04 14/1/05 Queen's Park, CD 23/2/03 27/2/03 23/4/03 3/2/04 11/2/04 Sankey Valley Park, DO 16/2/04 Newto, SW 2/2/04 16/2/04 31/12/04 17/2/05	
Flight time	January to March, can be seen earlier in mild weather	
Foodplant	On a variety of trees and shrubs, including oak, birch, hawthorn, lime, elm, willow, apple and blackthorn.	
BFNO	1927 (New 2005)	
Species	Brindled Beauty (1)	<i>Lycia hirtaria</i> Clerck.
Status	Vagrant, rare	
Records	Town Centre, DO 2/4/05	
Flight time	March, April	
Foodplant	Lime, birch, alder, hawthorn, beech, and other deciduous trees.	
BFNO	1930	
Species	Oak Beauty (9)	<i>Biston strataria</i> Hufn.
Status	Vagrant, rare	
Records	Eccleston Park, ME 17/3/02 28/3/02 31/3/02 Parr, RB 21/3/02 Queen's Park, CD 30/3/02 20/3/03 22/3/03 23/3/03 17/3/05	
Flight time	March, April	
Foodplant	Oak, elm, hazel, aspen, alder and other trees.	
BFNO	1931	
Species	Peppered Moth	<i>Biston betularia</i> Linn.
Status	Resident, common and widespread	
Records	Marshalls X, CW 21/7/96 (PER)	
Flight time	Mid- May to mid- August	
Foodplant	Many trees and plants e.g. lime, willow, birch, hawthorn, mugwort, goldenrod.	
BFNO	1932	
Species	Spring Usher (5)	<i>Agriopsis leucophaearia</i> D&S
Status	Vagrant, rare and local	
Records	Haydock, G&DA 31/1/02 9/2/02 11/2/02 8/2/04 Sankey Valley, DO 11/1/05	
Flight time	Mid-February to mid-March	
Foodplant	Oak.	
BFNO	1933	
Species	Scarce Umber (7)	<i>Agriopsis aurantiaria</i> Hubn.
Status	Vagrant, rare	
Records	Colliery Wood, TF 29/11/87 Haydock, G&DA 10/11/01 (2) 25/11/01 (2) Sankey Valley Park, DO 30/11/01 Newton, SW 18/11/03	
Flight time	October, November	
Foodplant	Birch, oak, hazel and many other trees.	
BFNO	1934	
Species	Dotted Border (26)	<i>Agriopsis marginaria</i> Fabr.
Status	Vagrant, scarce	
Records	Parr, RB 11/3/97 12/3/97 7/4/97 30/3/97 30/1/99 13/3/99 8/4/01 9/4/01 16/3/02 23/3/02 6/3/03 23/3/03 26/3/04 21/3/05 22/3/05 Marshalls X, CW 15/3/97 16/3/97 24/3/97 28/3/97 6/4/97 (2) Haydock, G&DA 11/2/02 Queen's Park, CD 22/3/02 23/3/02 8/2/05 Newton, SW 17/3/05	
Flight time	Mid- February to April	
Foodplant	Variety of trees and shrubs e.g. oak, hawthorn, hazel, willow, elm, birch.	
BFNO	1935	
Species	Mottled Umber (40)	<i>Erannis defoliaria</i> Clerck.
Status	Visitor, uncommon	
Records	Marshalls X, CW 9/10/96 19/10/96 (2) 31/10/96 Parr, RB 26/11/98 Haydock, G&DA 12/10/01 17/10/01 28/10/01 (2) 29/10/01 5/11/01 10/11/01 11/11/01 15/11/01 16/11/01 17/11/01 (4) 19/11/01 20/11/01 24/11/01 28/11/01 (3) 29/11/01 30/11/01 19/10/04 20/10/04 Eccleston Park, ME 23/10/01 (2) Billinge, CAD 28/10/01 30/10/01 Queen's Park, CD 28/10/03 29/12/04 30/12/04 29/10/05 Sankey Valley, DO 22/11/03 3/12/05 Town Centre, DO 10/12/04	
Flight time	October to December	
Foodplant	Oak, hawthorn, hazel, willow, elm, birch and other trees and shrubs.	
BFNO	1937	
Species	Willow Beauty	<i>Peribatodes rhomboidaria</i> D&S.
Status	Resident, common and widespread	
Records	Eccleston, TF 18/7/84	
Flight time	Late June to August	
Foodplant	Wide variety of trees e.g. hawthorn, birch, yew, plum.	

BFNO	1940 (New 2005)	
Species	Satin Beauty (1)	<i>Deileptenia ribeata</i> Clerck.
Status	Vagrant, rare	
Records	Siding Lane, RB, DO 2/7/05, first confirmed record.	
Flight time	Late June to mid- August	
Foodplant	Yew, Douglas fir, spruce, pine, oak, birch.	
BFNO	1941	
Species	Mottled Beauty	<i>Alcis repandata</i> Linn.
Status	Resident, fairly common and fairly widespread	
Records	Siding Lane, TF 4/7/86	
Flight time	June, July	
Foodplant	Birch, bilberry, bramble, honeysuckle, hawthorn, oak, broom, dock.	
BFNO	1947	
Species	Engrailed	<i>Ectropis bistortata</i> Goeze.
Status	Resident, fairly common	
Records	Siding Lane, TF 26/7/91	
Flight time	1 st brood March, April 2 nd brood late June to early August	
Foodplant	Wide variety of trees and shrubs including oak, birch, willow, and broom.	
BFNO	1951	
Species	Grey Birch (22)	<i>Aethalura punctulata</i> D&S.
Status	Vagrant, rare	
Records	Parr, RB 29/5/97 Siding Lane, RB, CW 20/5/01 Siding Lane, RB, CW, DO 11/5/02 (7) 12/4/04 (6) Siding Lane, RB, DO 12/5/04 (4) 22/5/04 Queen's Park, CD 25/5/04 Siding Lane, RB, DO, G&DA 26/5/05	
Flight time	May, June	
Foodplant	Birch and sometimes alder.	
BFNO	1954	
Species	Bordered White (24)	<i>Bupalus piniaria</i> Linn.
Status	Vagrant, rare	
Records	Town Centre, DO 12/7/97 (2) 10/7/98 1/7/99 18/6/00 7/6/04 Coach Road, CW 1/8/97 Parr, RB 27/6/00 Siding Lane, RB, CD, MB 1/7/00 (2) Eccleston Park, ME 22/6/01 27/6/01 7/6/02 19/7/02 30/7/02 14/7/04 Haydock, G&DA 28/6/01 Mossborough Hall, RB, CD 6/7/01 Queen's Park, CD 12/7/01 27/6/03 4/7/04 16/6/06 Newton, SW 21/5/04 Prescott Reservoirs, CD 23/6/05	
Flight time	May, June	
Foodplant	Scots pine, Corsican pine and probably other species of pine.	
BFNO	1955	
Species	Common White Wave	<i>Cabera pusaria</i> Linn.
Status	Resident, common and widespread	
Records	Eccleston, TF 18/7/84	
Flight time	May to July	
Foodplant	Birch, willow, alder, oak and other trees.	
BFNO	1956	
Species	Common Wave	<i>Cabera exanthemata</i> Scop.
Status	Resident, uncommon and fairly widespread	
Records	Parr, RB 10/7/96 (PER)	
Flight time	May to July	
Foodplant	Willow, aspen.	
BFNO	1957	
Species	White-pinion Spotted (22)	<i>Lomographa bimaculata</i> Fabr.
Status	Vagrant, scarce	
Records	Siding Lane, RB, CW 20/5/01 Town Centre, DO 6/6/02 Billinge Plantations, CAD 7/5/03 Newton, SW 7/5/04 11/5/04 14/5/04 19/5/04 2/5/05 2/6/05 Siding Lane, RB, DO 12/5/04 (5) Eccleston Park, ME 17/5/04 Ashton Cross, G&DA 19/5/05 Stanley Bank Meadow, G&DA 25/5/05 Siding Lane, RB, DO, G&DA 7/5/05 26/5/05 Haydock, G&DA 24/5/05 Parr, RB 9/5/06 11/5/06	
Flight time	May, June	
Foodplant	Hawthorn, blackthorn and probably other trees.	
BFNO	1958	
Species	Clouded Silver	<i>Lomographa temerata</i> D&S.
Status	Resident, common and widespread	
Records	Marshalls X, CW 18/8/96 (PER)	
Flight time	May, June	
Foodplant	Hawthorn, blackthorn, plum, wild cherry, apple, aspen.	

BFNO	1961	
Species	Light Emerald	<i>Campaea margaritata</i> Linn.
Status	Resident, common and widespread	
Records	Stanley Bank Wood, TF 12/7/85	
Flight time	July to early August	
Foodplant	Oak, birch, beech, hawthorn, elm and other deciduous trees.	
BFNO	1962	
Species	Barred Red (3)	<i>Hylaea fasciaria</i> Linn.
Status	Vagrant, rare	
Records	Town Centre, DO 16/7/01 Siding Lane, RB, G&DA 28/7/01 Sutton Leach, SB&KF 12/7/04	
Flight time	Mid-June to early August	
Foodplant	On scots pine, norway spruce, douglas fir, and probably other conifers.	
SPHINGIDAE		
BFNO	1972	
Species	Convolvulus Hawk-moth (2) (migrant species)	<i>Agrius convolvuli</i> Linn.
Status	Migrant, rare	
Records	Parr, RB 4/10/01 20/8/03	
Flight time	Mid-summer to mid autumn	
Foodplant	Field bindweed and other species of Convolvulaceae.	
BFNO	1973	
Species	Death's-head Hawk-moth (3) (migrant species)	<i>Acherontia atropos</i> Linn.
Status	Migrant, rare	
Records	Town Centre, KF 1/8/86, picked up in Bridge St by KF's father after being hit by a car and taken home were it later died. Garswood, DO 4/8/89 Sutton Leach, KF 26/7/96.	
Flight time	May to September	
Foodplant	Leaves of potato.	
BFNO	1979	
Species	Lime Hawk-moth	<i>Mimas tiliae</i> Linn.
Status	Resident, fairly common	
Records	Town Centre, DO 11/5/99, recorded annually since first record	
Flight time	May, June.	
Foodplant	Lime, English elm, alder, birch.	
BFNO	1980	
Species	Eyed Hawk-moth	<i>Smerinthus ocellata</i> Linn.
Status	Resident, fairly common	
Records	Parr, RB 15/5/97	
Flight time	May to July	
Foodplant	Willow, aspen, sallow, apple and sometimes poplar.	
BFNO	1981	
Species	Poplar Hawk-moth	<i>Laothoe populi</i> Linn.
Status	Resident, Common and widespread	
Records	Siding Lane, TF 4/7/86	
Flight time	May to July	
Foodplant	Poplar, aspen, sallow, willow.	
Subfamily: MACROGLOSSINAE		
BFNO	1984	
Species	Humming-bird Hawk-moth (14) (migrant species)	<i>Macroglossum stellatarum</i> Linn.
Status	Migrant, scarce	
Records	Marshalls X, CW 27/9/96 Billinge, AM 18/7/00 Town Hall, DO 13/7/01 Sutton Leach, KF 8/7/03 18/7/04 31/8/05 Parr, RB 4/5/03 8/8/03 Ecclestone, MU 8/9/03 Garswood, JP 14/9/03 1/10/03 Rainford, BB 19/9/03 Ecclestone Park, ME 6/10/03 Thatto Heath, AS 1/9/05	
Flight time	Spring to Autumn	
Foodplant	Hedge bedstraw, lady's bedstraw, wild madder.	
BFNO	1987	
Species	Bedstraw Hawk-moth (1) (migrant species)	<i>Hyles gallii</i> Rott.
Status	Migrant, rare	
Records	Newton, SW 22/8/03. Only record	
Flight time	May, August	
Foodplant	Various species of bedstraw and willowherb.	

BFNO 1991
 Species Elephant Hawk-moth *Deilephila elpenor* Linn.
 Status Resident, fairly common
 Records Sutton Leach, W&T 1/7/84, since the first record, this species has been recorded annually in varying numbers
 Flight time May to July
 Foodplant Willow herb, bedstraw, fuchsia.

BFNO 1992
 Species Small Elephant Hawk-moth (1) *Deilephila porcellus* Linn.
 Status Vagrant, rare
 Records Parr, RB 3/7/00
 Flight time May to July
 Foodplant Bedstraw

NOTODONTIDAE

BFNO 1994
 Species Buff Tip *Phalera bucephala* Linn.
 Status Resident, fairly common and widespread
 Records Burgies, PG 1/7/91
 Flight time June, July
 Foodplant Elm, willow, lime, oak and other deciduous trees.

BFNO 1995
 Species Puss Moth (9) *Cerura vinula* Linn.
 Status Vagrant, rare
 Records Eccleston, TF 3/6/93 Town Centre, DO 3/7/98 2/5/99 31/5/99 18/6/99 Mill Lane, SW 18/5/05 Queen's Park, CD 26/5/05 Parr, RB 29/5/05 Newton, SW 16/5/06
 Flight time May to July
 Foodplant Poplar, willow, aspen.

BFNO 1997
 Species Sallow Kitten (18) *Furcula furcula* Clerck.
 Status Vagrant, scarce
 Records Town Centre, DO 27/4/99 2/8/99 6/8/99 9/5/00 11/6/03 3/8/04 Bold Moss, RB, KF 8/8/00 (2) Haydock, G&DA 19/6/01 20/8/01 Eccleston Park, ME 16/8/01 Bold Moss, RB, CD 15/6/02 Siding Lane, RB, DO 7/6/03 Newton, SW 4/8/04 18/8/05 Parr, RB 11/6/05 29/8/05 Sutton Leach, SB&KF 15/8/05
 Flight time 1st brood May, June 2nd brood August
 Foodplant Sallow, aspen and occasionally poplar

BFNO 2000
 Species Iron Prominent *Notodonta dromedarius* Linn.
 Status Resident, common and widespread
 Records Siding Lane, TF 4/7/86
 Flight time June, July
 Foodplant Birch, alder, hazel, and oak.

BFNO 2003
 Species Pebble Prominent *Notodonta ziczac* Linn.
 Status Resident, fairly common and widespread
 Records Siding Lane, CW, DO, RB 3/8/96
 Flight time June, July
 Foodplant Sallow, willow, aspen, poplar.

BFNO 2006
 Species Lesser Swallow Prominent *Pheosia gnoma* Fabr.
 Status Resident, common and fairly widespread
 Records Rainhill Stoops area, MW 17/6/1946 next known record Siding Lane, TF 4/7/86
 Flight time 1st brood May, June 2nd brood August
 Foodplant Birch.

BFNO 2007
 Species Swallow Prominent *Pheosia tremula* Clerck.
 Status Resident, fairly common
 Records Sankey Valley, PG 1/7/82
 Flight time June, July
 Foodplant Poplar, aspen, willow, willow.

BFNO	2008	
Species	Coxcomb Prominent	<i>Ptilodon capucina</i> Linn.
Status	Resident, fairly common and widespread	
Records	Sankey Valley, PG 1/7/82	
Flight time	1 st brood May, June 2 nd brood August, September	
Foodplant	Hawthorn, birch, hazel, alder, oak and many other deciduous trees.	
BFNO	2015	
Species	Lunar Marbled Brown (19)	<i>Drymonia ruficornis</i> Hufn.
Status	Vagrant, scarce	
Records	Siding Lane, RB, CD 23/4/00 Siding Lane, RB, KF 26/4/00 (2) Parr, RB 28/4/00 Eccleston Park, ME 8/5/01 2/5/04 Haydock, G&DA 12/5/01 2/5/05 Siding Lane, RB, CW, DO 11/5/02 Newton, SW 23/4/04 25/4/04 (3) 26/4/04 27/4/04 2/5/04 3/5/04 6/5/06 Haydock, J&DA 30/4/05	
Flight time	April, May	
Foodplant	Oak.	
BFNO	2020	
Species	Figure of Eight (6)	<i>Diloba caeruleocephala</i> Linn.
Status	Vagrant, rare	
Records	Eccleston, TF 13/10/90 Marshalls X, CW 23/10/96 Eccleston Park, ME 16/10/00 5/10/01 28/9/02 Parr, RB 10/10/01	
Flight time	October to early November	
Foodplant	Hawthorn, blackthorn, apple and other trees.	

LYMANTRIIDAE

BFNO	2026	
Species	Vapourer (10)	<i>Orgyia antiqua</i> Linn.
Status	Vagrant, rare	
Records	Clock Face, C&JG 17/9/94 female, breeds regularly in garden, 5/8/98 female Town Centre, DO 11/8/96 17/8/96 7/8/99 5/8/03 Marshalls X, CW 18/8/97 Billinge, CAD 2/10/00 Haydock, G&DA 15/9/01 Parr, RB 9/7/03	
Flight time	July to September	
Foodplant	Most deciduous trees and shrubs.	
BFNO	2028	
Species	Pale Tussock (28)	<i>Calliteara pudibunda</i> Linn.
Status	Vagrant, scarce	
Records	Town Centre, DO 20/5/97 31/5/04 Siding Lane, RB, DO 20/5/99 12/5/04 22/5/04 (2) 17/6/06 Siding Lane, RB, CW 20/5/01 (2) Parr, RB 25/5/01 5/6/05 Siding Lane, RB, CW, DO 11/5/02 Bold Moss, RB, CD 31/5/03 Queen's Park, CD 19/5/04 Newton, SW 4/5/05 7/5/06 8/6/06 Siding Lane, RB, DO, G&DA 26/5/05 (4) 8/6/05 Eccleston, ME 17/5/05 31/5/05 5/6/05 Haydock, G&DA 27/5/05 (2) 30/5/05	
Flight time	May, June	
Foodplant	Birch, oak, elm, lime and many other deciduous trees.	
BFNO	2030	
Species	Yellow Tail	<i>Euproctis similis</i> Fuess.
Status	Resident, common and fairly widespread	
Records	Eccleston, TF 26/7/83	
Flight time	July, August	
Foodplant	Hawthorn, oak, blackthorn, willow and many other trees.	
BFNO	2031	
Species	White Satin Moth (22)	<i>Leucoma salicis</i> Linn.
Status	Vagrant, scarce	
Records	Bold Moss, 1/7/80 no recorder Bold Moss, JG 1/7/92 no date Town Centre, DO 11/7/96 11/7/98 5/7/99 19/7/01 27/7/04 14/7/05 20/7/05 (2) 9/8/05 Queen's Park, CD 7/7/01 16/7/01 19/7/01 23/7/02 Eccleston Park, ME 31/7/01 Parr, RB 14/8/02 12/7/05 (f) 13/7/05 (m) 21/7/05 (m) Newton, SW 25/7/03 Bold Moss, RB, CD 9/7/05	
Flight time	July, August	
Foodplant	Sallow, poplar, willows.	

ARCTIIDAE Subfamily: LITHOSIINAE

BFNO	2035 (New 2005)	
Species	Round-winged Muslin (1)	<i>Thumatha senex</i> Hubner
Status	Vagrant, rare	
Records	Bold Moss, RB, CD 9/7/05	
Flight time	July, August	
Foodplant	Various lichens and mosses.	

BFNO 2049
 Species Buff Footman (3) *Eilema depressa* Esper.
 Status Vagrant, rare
 Records Bold Moss, RB, KF 8/8/00 Queen's Park, CD 18/7/02 Parr, RB 16/8/02
 Flight time July, August
 Foodplant Lichens and algae growing on the trunks and branches of yew, hawthorn and other trees and shrubs.

BFNO 2050
 Species Common Footman *Eilema lurideola* Zinck.
 Status Resident, fairly common
 Records Eccleston, TF 18/7/94
 Flight time July, August
 Foodplant Various lichens growing on trees, fences and rocks.

Subfamily: ARCTIINAE

BFNO 2057
 Species Garden Tiger *Arctia caja* Linn.
 Status Resident, a once common and widespread species which is now in decline.
 Records Colliery Wood, TF 11/8/86
 Flight time July, August
 Foodplant Variety of wild and garden plants.

BFNO 2060
 Species White Ermine *Spilosoma lubricipeda* Linn.
 Status Resident, common and widespread
 Records Eccleston, TF 18/7/84
 Flight time Late May to July
 Foodplant Various wild and garden plants.

BFNO 2061
 Species Buff Ermine *Spilosoma luteum* Hufn.
 Status Resident, common and widespread
 Records Red Brow Wood, TF 6/7/84
 Flight time Mid-May to mid-July
 Foodplant Variety of wild and garden plants and on trees and shrubs, including birch and elder.

BFNO 2063
 Species Muslin Moth *Diaphora mendica* Clerck.
 Status Resident, fairly common
 Records Eccleston, TF 7/5/90
 Flight time May to early June
 Foodplant Dock, chickweed, plantain, dandelion and other herbaceous plants.

BFNO 2064
 Species Ruby Tiger *Phragmatobia fuliginosa* Linn.
 Status Resident, uncommon and fairly widespread
 Records Marshalls X, CW 12/8/96 (PER)
 Flight time 1st brood April to June 2nd brood (partial) August, September
 Foodplant Dock, dandelion and other herbaceous plants.

BFNO 2069
 Species Cinnabar *Tyria jacobaeae* Linn.
 Status Resident, common and widespread
 Records Eccleston, TF 16/6/90
 Flight time Late May to July
 Foodplant Common ragwort, groundsel and other wild and garden varieties of (*senecio*).

NOLIDAE

BFNO 2077
 Species Short-cloaked Moth *Nola cucullatella* Linn.
 Status Resident, common and widespread
 Records Eccleston, TF 15/7/86
 Flight time June, July
 Foodplant Hawthorn, blackthorn, apple, plum.

BFNO 2078
 Species Least Black Arches (17) *Nola confusalis* H-S.
 Status Vagrant, scarce
 Records Siding Lane, RB, DO 20/5/99 7/6/03 12/5/04 (2) Coach Road, RB 27/5/99 Siding Lane, RB, CD, MB 1/7/00 Siding Lane, RB, CW 20/5/01 (3) Bold Moss, RB, CD 23/6/01 Billinge Plantations, CAD 21/4/03 Siding Lane, RB, DO, G&DA 26/5/05 (4) 8/6/05 Eccleston Park, ME 10/6/05
 Flight time May, June.
 Foodplant Said to feed on lichens growing on trees.

NOCTUIDAE

Subfamily: NOCTUINAE

BFNO 2082
 Species Garden Dart (1) *Euxoa nigricans* Linn.
 Status Vagrant, rare
 Records Prescott Road, KH 1984 no date. Only record
 Flight time July, August
 Foodplant Wide variety of wild and garden plants.

BFNO 2087
 Species Turnip Moth *Agrotis segetum* D&S.
 Status Resident, reinforced by migrants, common and widespread
 Records Marshalls X, CW 30/7/96 (PER)
 Flight time 1st brood May, June 2nd brood (partial) August, September
 Foodplant Roots and lower stems of vegetables.

BFNO 2089
 Species Heart and Dart *Agrotis exclamationis* Linn.
 Status Resident, common and widespread
 Records Eccleston, TF 26/7/83
 Flight time Mid-May to July
 Foodplant Wide variety of wild and cultivated plants.

BFNO 2091
 Species Dark Sword-grass (44) (migrant species) *Agrotis ipsilon* Hufn.
 Status Migrant, uncommon
 Records Billinge Hill, CAD 21/7/93 Marshalls X, CW 18/9/96 Parr, RB 6/8/98 22/8/99 28/6/00 12/7/00 13/9/00 (2 m&f) 20/9/00 (m) 21/9/00 (m) 23/9/00 (m) 24/9/00 (f) 8/10/01 10/10/01 (m) 22/10/0 (m) 6/8/02 (m) 14/6/03 11/7/03 26/7/03 26/8/03 (m) 27/8/03 (2m) 6/9/03 (m) 24/9/03 (f) 26/9/03 (f) 28/9/03 (m) 2/10/03 (m) Blackbrook, RK 19/6/00 Town Centre, DO 8/6/00 11/6/00 Eccleston Park, ME 7/9/00 29/9/00 30/9/00 20/10/00 21/10/00 6/10/01 11/10/01 11/6/02 7/9/02 4/9/03 Liverpool-St Helens RUFC, RB 11/10/01 Newton, SW 23/8/03 Queen's Park, CD 11/11/03 25/8/04
 Flight time March to November
 Foodplant Leaves and roots of many wild and garden plants.

BFNO 2092
 Species Shuttle Shaped Dart *Agrotis puta* Hubn.
 Status Resident, fairly common and fairly widespread
 Records Eccleston, TF 27/8/84
 Flight time Late April to early October
 Foodplant Dock, dandelion, knotgrass, lettuce and other plants.

BFNO 2098
 Species Flame *Axylia putris* Linn.
 Status Resident, common and widespread
 Records Eccleston, TF 13/7/86
 Flight time June, July
 Foodplant Low plants including dock, dandelion, common nettle, and bedstraw.

BFNO 2102
 Species Flame Shoulder *Ochropleura plecta* Linn.
 Status Resident, common and widespread
 Records Red Brow Wood, TF 6/7/84
 Flight time 1st brood April to June 2nd brood August, September
 Foodplant Plantain, dock, groundsel and other wild and cultivated plants.

BFNO 2107
 Species Large Yellow Underwing *Noctua pronuba* Linn.
 Status Resident, common and widespread
 Records Red Brow Wood, TF 6/7/84 (PER)
 Flight time July to September
 Foodplant Wide range of plants and grasses.

BFNO	2109	
Species	Lesser Yellow Underwing	<i>Noctua comes</i> Hubn.
Status	Resident, common and widespread	
Records	Eccleston, TF 27/8/84 (PER)	
Flight time	July to September	
Foodplant	Blackthorn, hawthorn, willow, heather, dock, foxglove etc.	
BFNO	2110	
Species	Broad-bordered Yellow Underwing	<i>Noctua fimbriata</i> Schreber.
Status	Resident, not as common as the other underwings	
Records	Colliery Wood, TF 16/8/87 (PER)	
Flight time	July to September	
Foodplant	Blackthorn, willow, dock and other shrubs.	
BFNO	2111	
Species	Lesser Broad-bordered Yellow Underwing	<i>Noctua janthe</i> D&S.
Status	Resident, common and widespread	
Records	Eccleston, TF 26/7/83 (PER)	
Flight time	Late July to early September	
Foodplant	Dock, blackthorn, willow and a wide variety of herbs and shrubs.	
BFNO	2112	
Species	Least Yellow Underwing	<i>Noctua interjecta caliginosa</i> Hubn.
Status	Resident, uncommon and widespread	
Records	Parr, RB 27/7/96 (PER)	
Flight time	July, August	
Foodplant	Various grasses and herbaceous plants.	
BFNO	2114	
Species	Double Dart (22)	<i>Graphiphora augur</i> Fabr.
Status	Vagrant, scarce	
Records	Eccleston, TF 18/7/84 5/7/86 13/7/86 14/7/86 (2) 15/7/86 16/7/86 (2) 2/7/87 4/7/87 15/7/87 23/7/87 10/6/88 17/6/88 16/6/90 Siding Lane, TF 4/7/86 28/7/89 Colliery Wood, TF 10/8/86 Parr, RB 13/6/97 Bold Moss, RB, CD 23/6/01 Sutton Leach, SB&KF 12/7/04 13/7/04	
Flight time	June, July	
Foodplant	Blackthorn, willow, hawthorn, birches, elm and sometimes dock.	
BFNO	2117	
Species	Autumnal Rustic (14)	<i>Eugnorisma glareosa</i> Esp.
Status	Vagrant, scarce	
Records	Parr, RB 8/9/96 15/9/98 12/9/99 20/9/00 Eccleston Park, ME 7/9/00 20/9/01 21/9/01 2/9/02 4/9/02 6/9/02 Haydock, G&DA 12/9/01 13/9/04 Windle Wildflower Fields, RB, CD 15/9/03 (2)	
Flight time	August, September	
Foodplant	Wide variety of plants and grasses.	
BFNO	2118	
Species	True Lover's Knot (41)	<i>Lycophotia porphyria</i> D&S.
Status	Visitor, uncommon	
Records	Parr, RB 27/7/97 6/7/00 28/6/01 5/7/01 7/7/02 Bold Moss, RB, KF 6/7/00 (10) 20/7/00 (2) Bold Moss, RB, CD 23/6/01 (8) 29/7/02 15/6/02 (2) 9/7/05 (10) Bold Moss, RB, G&DA 22/7/01 Siding Lane, RB, G&DA 28/7/01 Town Centre, DO 29/7/01	
Flight time	June to August	
Foodplant	Heather and bell heather.	
BFNO	2119	
Species	Pearly Underwing (4) (migrant species)	<i>Peridroma saucia</i> Hubn.
Status	Migrant, rare	
Records	Parr, RB 26/6/00 2/7/00 Eccleston Park, ME 8/9/00 16/10/00	
Flight time	Has been recorded in every month of the year, but most numerous in September and October	
Foodplant	Wild and cultivated herbaceous plants, in captivity on dock.	
BFNO	2120	
Species	Ingrailed Clay	<i>Diarsia mendica</i> Fabr.
Status	Resident, common and widespread	
Records	Siding Lane, TF 4/7/86 (PER)	
Flight time	June to August	
Foodplant	Bilberry, bramble, willow, hawthorn, heather, dock etc.	

BFNO	2122	
Species	Purple Clay (36+)	<i>Diarsia brunnea</i> D&S.
Status	Vagrant, scarce	
Records	Billinge, AM frequent, between 12/7/85 to 27/8/89 no exact dates. Parr, RB 30/6/00 27/7/01 Siding Lane, RB, CD, MB 1/7/00 (2) Siding Lane, RB, CD 22/7/00 Eccleston Park, ME 22/6/01 14/7/01 25/6/03 26/6/03 30/6/03 (2) 2/7/04 (4) 3/7/04 4/7/04 10/7/04 17/6/05 22/6/05 25/6/05 27/6/05 30/6/05 7/7/05 8/7/05 (2) 9/7/05 10/7/05 11/7/05 (2) Queen's Park, CD 7/7/01 1/7/04 Siding Lane, RB, G&DA 28/7/01 Siding Lane, RB, DO 2/7/05	
Flight time	Mid-June to early August	
Foodplant	Bilberry, willow, birch, dock and other trees and plants.	
BFNO	2123	
Species	Small Square-spot	<i>Diarsia rubi</i> View.
Status	Resident, common and fairly widespread	
Records	Colliery Wood, TF 17/8/86	
Flight time	1 st brood May, June 2 nd brood August, September	
Foodplant	Common nettle and many other herbaceous plants.	
BFNO	2126	
Species	Setaceous Hebrew Character	<i>Xestia c-nigrum</i> Linn.
Status	Resident, common and widespread	
Records	Eccleston, TF 3/9/91 (PER)	
Flight time	1 st brood may to July 2 nd brood late August to October	
Foodplant	Common nettle and many other herbaceous plants.	
BFNO	2128	
Species	Double Square-spot	<i>Xestia triangulum</i> Hufn.
Status	Resident, fairly common	
Records	Siding Lane, TF 4/7/86	
Flight time	June, July	
Foodplant	Blackthorn, hawthorn, bramble, raspberry, willow, docks, trees, plants.	
BFNO	2130	
Species	Dotted Clay	<i>Xestia baja</i> D&S.
Status	Resident, common and widespread	
Records	Eccleston, TF 23/7/87	
Flight time	Late July, August	
Foodplant	Birch, bramble, blackthorn, dock and many other trees and plants.	
BFNO	2133	
Species	Six-striped Rustic	<i>Xestia sexstrigata</i> Haw.
Status	Resident, fairly common	
Records	Bold Moss, CW, RB 17/8/97	
Flight time	July, August	
Foodplant	Variety of herbaceous plants.	
BFNO	2134	
Species	Square-spot Rustic	<i>Xestia xanthographa</i> D&S.
Status	Resident, common and widespread	
Records	Eccleston, TF 31/7/84	
Flight time	Late July to September	
Foodplant	Wide variety of plants and trees including dandelion, willowherb, dock.	
BFNO	2135	
Species	Heath Rustic (1)	<i>Xestia agathina</i> Dup.
Status	Vagrant, rare	
Records	Town Centre, DO 24/9/98. Only record	
Flight time	September	
Foodplant	Young shoots of heather.	
BFNO	2136	
Species	Gothic	<i>Naenia typica</i> Linn.
Status	Resident, fairly common	
Records	Stanley Bank Wood, TF 12/7/85	
Flight time	June, July	
Foodplant	Wide variety of plants and trees including dandelion, willowherb, dock.	
BFNO	2139	
Species	Red Chestnut (7)	<i>Cerastis rubricosa</i> D&S.
Status	Vagrant, rare	
Records	Siding Lane, RB, CD 23/4/00 (2) Parr, RB 28/3/03 17/4/03 Queen's Park, CD 3/4/03 Siding Lane, RB, DO, CD 12/4/03 Bold Moss, RB, CD 20/4/03	
Flight time	March, April	
Foodplant	Wide variety of herbaceous plants.	

Subfamily: HADENINAE

BFNO	2142 (New 2005)	
Species	Beautiful Yellow Underwing (2)	<i>Anarta myrtilli</i> Linn.
Status	Vagrant, rare	
Records	Bold Moss, RB, G&DA 30/5/05 (2)	
Flight time	April, August, in two overlapping broods	
Foodplant	Heather, heath.	
BFNO	2145	
Species	Nutmeg (20)	<i>Discestra trifolii</i> Hufn.
Status	Vagrant, scarce	
Records	Parr, RB 29/8/96 4/6/98 29/7/98 1/8/99 11/8/00 14/8/00 28/7/01 3/8/01 11/8/01 Town Centre, DO 4/5/97 12/6/97 29/7/97 10/8/97 11/8/97 22/8/97 7/7/98 12/6/99 9/8/01 (2) Haydock, G&DA 27/5/01	
Flight time	Late June, July	
Foodplant	Goosefoot and orache.	
BFNO	2147	
Species	Shears (2)	<i>Hada nana</i> Hufn.
Status	Vagrant, rare	
Records	Billinge, AM 23/6/88 Queen's Park, CD 16/6/06, (first for 18 years)	
Flight time	Late May to early July	
Foodplant	Hawks-beard, hawkweed, dandelion, chickweed.	
BFNO	2150	
Species	Grey Arches (6)	<i>Polia nebulosa</i> Hufn.
Status	Vagrant, rare	
Records	Siding Lane, RB, KF 18/6/99 Siding Lane, RB, CD, MB 1/7/00 Mossborough Hall, RB, CD 6/7/01 Reed's Moss, RB, CD 22/6/02 Siding Lane, RB, DO 7/6/03 17/6/06	
Flight time	June, July	
Foodplant	Birch, willow, honeysuckle, bramble, hawthorn, dock etc.	
BFNO	2154	
Species	Cabbage Moth	<i>Mamestra brassicae</i> Linn
Status	Resident, common and widespread	
Records	Eccleston, TF 31/7/84 (PER)	
Flight time	Mid-July to mid-September	
Foodplant	Variety of wild and garden plants but especially cabbages and other (<i>brassicae</i>).	
BFNO	2155	
Species	Dot Moth	<i>Melanchra persicariae</i> Linn.
Status	Resident, common and widespread	
Records	Eccleston, TF 31/7/84	
Flight time	July, August	
Foodplant	Many wild and garden plants.	
BFNO	2158	
Species	Pale-shouldered Brocade	<i>Lacanobia thalassina</i> Hufn.
Status	Resident, fairly common	
Records	Parr, RB 9/6/97	
Flight time	Late May to early July	
Foodplant	Oak, hawthorn, broom, honeysuckle etc.	
BFNO	2159	
Species	Dog's Tooth	<i>Lacanobia suasa</i> D&S.
Status	Resident, fairly common	
Records	Parr, RB 19/6/97	
Flight time	June, July	
Foodplant	Herbaceous plants including dock and plantain.	
BFNO	2160	
Species	Bright-line Brown-eye	<i>Lacanobia oleracea</i> Linn.
Status	Resident, common and widespread	
Records	Eccleston, TF 26/7/83	
Flight time	May to July	
Foodplant	Wide variety of plants and shrubs.	
BFNO	2163	
Species	Broom Moth (11+)	<i>Melanchra pisi</i> Linn.
Status	Vagrant, rare	
Records	Billinge, AM occasional, between 28/6/85 to 5/8/89 no exact dates. Eccleston Park, ME 26/5/01 Parr, RB 5/7/01 9/7/02 13/6/03 16/6/03 26/6/03 20/6/05 6/6/06 Newton, SW 17/6/06	
Flight time	Mid-May to July	
Foodplant	Wide variety of plants such as broom, bracken, birches, elm, docks.	

BFNO	2164	
Species	Broad-barred White (11)	<i>Hecatera bicolorata</i> Hufn.
Status	Vagrant, scarce	
Records	Town Centre, DO 17/6/00 3/7/01 13/7/02 Ecclestone Park, ME 14/6/01 22/6/02 22/7/02 Queen's Park, CD 4/6/03 7/7/04 Windle Wildflower Fields, RB, CD 5/7/03 Parr, RB 2/7/05 10/6/06	
Flight time	mid-June to early August	
Foodplant	Flowers and buds of hawkweed and hawk's-beard.	
BFNO	2165 (New 2005)	
Species	Small Ranunculus (1)	<i>Hecatera dysodea</i> D&S
Status	Vagrant, rare	
Records	Town Centre, DO 15/7/05. A once extinct species that has been refound recently in the south.	
Flight time	June, July	
Foodplant	Flowers and ripening seeds of various wild and garden plants, especially red valerian, also on cultivated lettuce.	
BFNO	2166	
Species	Campion (28)	<i>Hadena rivularis</i> Fabr.
Status	Vagrant, scarce	
Records	Ecclestone, TF 5/8/89 Parr, RB 9/5/97 2/8/98 31/5/99 3/8/99 9/7/01 2/8/01 13/8/01 6/9/01 6/6/02 1/8/03 1/7/05 8/6/06 15/6/06 Town Centre, DO 22/7/00 1/7/01 26/5/03 1/6/03 28/5/04 6/6/04 Ecclestone Park, ME 14/8/01 29/5/03 26/6/03 13/7/05 Queen's Park, CD 3/9/03 Newton, SW 31/7/04 30/8/04 Siding Lane, DO 30/7/05	
Flight time	1 st brood May to June 2 nd brood late July to August	
Foodplant	Ripening seeds of campions (<i>silene</i>) and lychnis.	
BFNO	2167	
Species	Tawny Shears (4)	<i>Hadena perplexa</i> D&S.
Status	Vagrant, rare	
Records	Town Centre, DO 23/6/98 29/5/01 Parr, RB 22/5/01 16/6/03	
Flight time	Mid-May to June	
Foodplant	Bladder campion, sea campion, Nottingham catchfly and occasionally white campion and Rock sea-spurrey.	
BFNO	2171	
Species	Marbled Coronet (4)	<i>Hadena confusa</i> Hufn.
Status	Vagrant, rare	
Records	Marshalls X, CW 1/6/96 6/7/97 Parr, RB 16/6/97 2/7/00	
Flight time	Late May to early July	
Foodplant	Ripening seeds of campions (<i>silene</i>) preferring sea and bladder campion.	
BFNO	2173	
Species	Lychnis	<i>Hadena bicruris</i> Hufn.
Status	Resident, fairly common	
Records	Ecclestone, TF 15/7/87	
Flight time	Late May to July	
Foodplant	Red and white campion and other silene and lychnis species.	
BFNO	2176	
Species	Antler Moth (20)	<i>Cerapteryx graminis</i> Linn.
Status	Vagrant, scarce	
Records	Ecclestone, TF 31/7/84 12/7/86 7/8/89 1/8/91 Colliery Wood, TF 14/8/86 Siding Lane, TF 28/7/89 Billinge Hill, CAD 13/8/89 31/8/91 30/7/94 Town Centre, DO 6/8/97 3/8/98 11/8/98 (3) 14/8/98 20/8/98 Ecclestone Park, ME 17/8/02 Newton, SW 15/7/04 2/8/04 Sutton Leach, SB&KF 26/8/04	
Flight time	Mid- July to early September	
Foodplant	Mat grasses, sheep's fescue and other grasses.	
BFNO	2179	
Species	Pine Beauty (7)	<i>Panolis flammea</i> D&S.
Status	Vagrant, rare	
Records	Parr, RB 11/5/99 9/5/02 Ecclestone Park, ME 10/5/02 13/5/02 5/5/06 Newton, SW 24/4/04 Town Centre, DO 15/5/04	
Flight time	Late March to early May	
Foodplant	Various species of pine sometimes a pest in Scotland	
BFNO	2182	
Species	Small Quaker	<i>Orthosia cruda</i> D&S.
Status	Resident, common and widespread	
Records	Marshalls X, CW 19/3/97 (PER)	
Flight time	March, April	
Foodplant	Oak, sallow and other trees.	

BFNO	2186	
Species	Powdered Quaker (16)	<i>Orthosia gracilis</i> D&S.
Status	Vagrant, scarce	
Records	Marshalls X, CW 13/4/97 27/4/97 3/5/97 14/5/97 Parr, RB 16/5/00 21/4/02 Haydock, G&DA 9/5/01 12/5/01 30/4/05 4/5/05 Queen's Park, CD 15/5/02 16/5/02 3/5/03 Newton, SW 8/5/04 9/5/04 Haydock, J&DA 23/4/05	
Flight time	April to early May	
Foodplant	Bog myrtle, willow, meadowsweet, yellow and purple loosestrife.	
BFNO	2187	
Species	Common Quaker	<i>Orthosia cerasi</i> D&S.
Status	Resident, common and widespread	
Records	Parr, RB 7/3/97 (PER)	
Flight time	March, April	
Foodplant	Oak, willow and other trees	
BFNO	2188	
Species	Clouded Drab	<i>Orthosia incerta</i> Hufn.
Status	Resident, common and widespread	
Records	Marshalls X, CW 7/3/97 (PER)	
Flight time	Mid-March to early May	
Foodplant	Most trees and shrubs with preference for oak and willow.	
BFNO	2189	
Species	Twin-spotted Quaker (48)	<i>Orthosia munda</i> D&S.
Status	Visitor, uncommon	
Records	Laffak, CT 29/3/97 Eccleston Park, ME 31/3/02 22/4/02 30/3/03 4/4/03 17/4/03 (2) 27/3/04 (2) Queen's Park, CD 20/4/02 25/3/03 30/4/03 Mossborough Hall, RB, CD 21/3/03 (2) Siding Lane, RB, DO, CD (12) Newton, SW 13/3/04 15/3/04 1/4/04 13/4/04 17/3/05 19/3/05 26/3/05 28/3/05 29/3/05 5/4/06 15/4/06 (3) Sutton Leach, SB&KF 28/3/05 Haydock, G&DA 13/4/05 (2) 16/4/05 19/4/05 20/4/05 21/4/05 22/4/05 1/5/05	
Flight time	March, April	
Foodplant	Willow, elm, oak, aspen and other trees.	
BFNO	2190	
Species	Hebrew Character	<i>Orthosia gothica</i> Linn.
Status	Resident, common and widespread	
Records	Eccleston, TF 11/5/90 (PER)	
Flight time	March, April	
Foodplant	Wide variety of trees and shrubs.	
BFNO	2192	
Species	Brown-line Bright-eye (5)	<i>Mythimna conigera</i> D&S.
Status	Vagrant, rare	
Records	Marshalls X, CW 24/7/96 17/6/97 (2) Siding Lane, CW, DO, RB 3/8/96 4/8/96	
Flight time	Mid-June to August	
Foodplant	Various grasses such as poa spp. and festuca spp.	
BFNO	2193	
Species	Clay	<i>Mythimna ferrago</i> Fabr.
Status	Resident, common and widespread	
Records	Mucky Mountains, TF 6/7/84	
Flight time	July, August	
Foodplant	Mainly grasses but also low plants.	
BFNO	2197	
Species	Southern Wainscot (16)	<i>Mythimna straminea</i> Treit.
Status	Vagrant, scarce	
Records	Bold Moss, RB, G&DA 22/7/01 (2) Eccleston Park, ME 19/7/02 14/7/04 (2) 8/8/04 Bold Moss, RB, CD 29/7/02 (6) 9/7/05 (4)	
Flight time	July, August	
Foodplant	Common reed and canary-grass.	
BFNO	2198	
Species	Smoky Wainscot	<i>Mythimna impura</i> Hubn.
Status	Resident, common and widespread	
Records	Eccleston, TF 18/7/94 (PER)	
Flight time	Late June to August	
Foodplant	Wide variety of grasses.	

BFNO	2199	
Species	Common Wainscot	<i>Mythimna pallens</i> Linn.
Status	Resident, common and widespread	
Records	Eccleston, TF 26/7/83	
Flight time	Mid-July to early October	
Foodplant	Wide variety of grasses.	
BFNO	2203	
Species	White-speck (2) (migrant species)	<i>Mythimna unipuncta</i> Haw.
Status	Migrant, rare	
Records	Parr, RB 21/9/00 26/9/00	
Flight time	Recorded in all seasons, but most numerous from late August to early October	
Foodplant	On couch and other grasses.	
BFNO	2204	
Species	Obscure Wainscot (10)	<i>Mythimna obsoleta</i> Hubn.
Status	Vagrant, rare	
Records	Bold Moss, RB, KF 6/7/00 20/7/00 8/8/00 Bold Moss, RB, CD 23/6/01 (4) 31/5/03 9/7/05 (2)	
Flight time	Late May to mid-July	
Foodplant	Common reed	
BFNO	2205	
Species	Shoulder-striped Wainscot	<i>Mythimna comma</i> Linn.
Status	Resident, fairly common	
Records	Billinge Hill, CAD 18/8/83	
Flight time	Early June to late July	
Foodplant	Cock's-foot and other grasses	
Subfamily: CUCULLINAE		
BFNO	2216	
Species	Shark (23)	<i>Cucullia umbratica</i> Linn.
Status	Vagrant, scarce	
Records	Eccleston, TF 5/8/89 Billinge Hill, CAD 24/6/92 Parr, RB 16/5/97 1/6/00 21/7/00 18/5/02 17/6/03 25/6/03 16/5/06 Town Centre, DO 20/7/99 31/7/99 22/6/00 20/7/01 Mossborough Hall, RB, CD 6/7/01 Queen's Park, CD 9/7/01 12/6/04 13/6/04 Eccleston Park, ME 19/7/02 14/7/04 Windle, CD 22/5/04 Newton, SW 25/5/04 15/6/04 4/8/04	
Flight time	June, July	
Foodplant	Sow thistle species and wild lettuce.	
BFNO	2231	
Species	Deep-brown Dart (19)	<i>Aporophyla lutulenta</i> D&S.
Status	Vagrant, scarce	
Records	Parr, RB 20/9/96 23/9/97 2/10/97 19/9/98 28/9/98 19/9/99 4/9/00 7/9/00 21/9/00 22/9/00 25/9/00 18/9/01 20/9/01 22/9/01 27/9/02 Marshalls X, CW 20/9/96 24/9/96 Queen's Park, CD 28/9/01 Haydock, G&DA 15/9/04	
Flight time	Mid-September to mid-October	
Foodplant	Tufted hair-grass and other grasses; also hawthorn, blackthorn, broom and other plants.	
BFNO	2232	
Species	Black Rustic	<i>Aporophyla nigra</i> Haw.
Status	Resident, common and widespread	
Records	Siding Lane, RB, DO 6/9/96 (PER)	
Flight time	September, October	
Foodplant	Low plants such as dock, heather, grasses.	
BFNO	2235	
Species	Tawny Pinion (10)	<i>Lithophane semibrunnea</i> Haw.
Status	Vagrant, rare	
Records	Billinge, AM 27/10/91 Parr, RB 21/4/00 3/5/00 9/4/01 26/3/04 Queen's Park, CD 22/3/02 23/4/02 27/3/03 Town Centre, DO 18/4/05 Newton, SW 3/5/06	
Flight time	October to early November and after hibernation March to May	
Foodplant	Ash.	
BFNO	2236 (New 2005)	
Species	Pale Pinion (1)	<i>Lithophane hepatica</i> Huf.
Status	Vagrant, rare	
Records	Newton, SW 2/4/05	
Flight time	October to early November and after hibernation March to May	
Foodplant	Sallow and other trees and shrubs.	

BFNO	2240	
Species	Blair's Shoulder-knot	<i>Lithophane leautieri hesperica</i> Boisd.
Status	Resident, fairly common and widespread	
Records	Parr, RB 27/9/96 since the initial sighting this species has been recorded annually in good numbers within the St Helens area, and is moving rapidly northwards since first being recorded on the Isle of Wight in 1951.	
Flight time	Early October to early November	
Foodplant	Monterey or Cupressocyparis Leylandii (common garden hedge tree).	
BFNO	2243	
Species	Early Grey	<i>Xylocampa areola</i> Esper.
Status	Resident, common and widespread	
Records	Marshalls X, CW 8/3/97 (PER)	
Flight time	Mid-March to early May	
Foodplant	Wild and cultivated species of honeysuckle.	
BFNO	2245	
Species	Green-brindled Crescent	<i>Allophyes oxyacanthae</i> Linn.
Status	Resident, fairly common	
Records	Marshalls X, CW 18/9/96	
Flight time	September to early November	
Foodplant	Blackthorn and hawthorn.	
BFNO	2248	
Species	Brindled Green (43)	<i>Dryobotodes eremita</i> Fabr.
Status	Visitor, uncommon	
Records	Eccleston, TF 3/9/91 Marshalls X, CW 23/8/96 20/9/96 Parr, RB 7/9/96 8/9/96 14/9/00 (2) 16/9/01 19/9/02 27/9/02 16/9/03 Eccleston Park, ME 9/9/00 14/9/00 (3) 17/9/00 18/9/00 (2) 1/10/00 16/9/01 28/9/01 2/9/02 11/9/02 (3) 12/9/02 (2) 13/9/02 (2) 17/9/02 18/9/04 Haydock, G&DA 16/9/01 19/9/01 14/9/04 17/9/04 19/9/04 (2) Queen's Park, CD 28/9/01 14/10/01 29/9/02 7/10/02 Newton, SW 15/9/03 16/9/03	
Flight time	August, September	
Foodplant	First buds, then leaves of oak and hawthorn.	
BFNO	2254	
Species	Grey Chi (4+)	<i>Antitype chi</i> Linn.
Status	Vagrant, rare	
Records	Billinge, AM occasional, between 5/8/85 to 14/8/89 no exact dates. Eccleston Park, ME 27/8/00, 23/8/01	
Flight time	August, September	
Foodplant	Low plants including flowers and leaves of dock and sorrel.	
BFNO	2256	
Species	Satellite (31)	<i>Eupsilia transversa</i> Hufn.
Status	Visitor, uncommon	
Records	Parr, RB 2/4/97 31/1/99 23/3/99 4/10/00 2/4/02 26/2/03 21/3/03 26/9/04 4/10/05 20/10/05 Eccleston Park, ME 19/10/00 23/10/01 16/11/01 1/7/05 Haydock, G&DA 4/10/01 (3) 5/10/01 8/10/01 13/10/04 (2) 23/10/04 24/10/04 Queen's Park, CD 28/3/03 17/3/05 Siding Lane, RB, DO, CD 12/4/03 Newton, SW 5/2/04 30/10/04 31/10/04 8/11/04 18/3/05	
Flight time	September to April	
Foodplant	Oak, birch, elm, willows, poplar and other trees.	
BFNO	2258	
Species	Chestnut	<i>Conistra vaccinii</i> Linn.
Status	Resident, fairly common	
Records	Marshalls X, CW 6/3/97	
Flight time	Late September to May	
Foodplant	Oak, birch, elm and other trees.	
BFNO	2259	
Species	Dark Chestnut (4)	<i>Conistra ligula</i> Esper.
Status	Vagrant, rare	
Records	Newton, SW 5/9/04 6/12/04 Town Centre, DO 8/12/04 Parr, RB 30/12/04	
Flight time	October, November	
Foodplant	Hawthorn, willow and oak.	
BFNO	2262	
Species	Brick	<i>Agrochola circumcellaris</i> Hufn.
Status	Resident, common and fairly widespread	
Records	Marshalls X, CW 10/10/96 (PER)	
Flight time	Late August to mid-October	
Foodplant	Mainly wych elm, on flowers and seeds.	

BFNO	2263	
Species	Red-line Quaker	<i>Agrochola lota</i> Clerck.
Status	Resident, common and fairly widespread	
Records	Parr, RB 23/9/96 (PER)	
Flight time	September, October	
Foodplant	Sallow, willow.	
BFNO	2264	
Species	Yellow-line Quaker (43)	<i>Agrochola macilenta</i> Hubn.
Status	Visitor, uncommon	
Records	Marshalls X, CW 31/10/96 (2) Coach Road, CW 27/9/97 Parr, RB 20/10/99 4/10/00 27/9/01 10/10/01 17/10/01 19/10/01 1/10/02 30/10/02 2/10/03 8/11/04 Eccleston Park, ME 11/10/00 12/10/00 13/10/00 (3) 21/10/00 (3) 22/10/00 (2) 13/11/00 11/10/01 12/10/01 (4) 13/10/01 20/10/01 24/10/05 27/10/05 30/10/05 Siding Lane, RB, G&DA 29/9/01 Haydock, G&DA 17/10/01 29/10/01 5/11/01 (2) 13/10/04 17/10/04 22/10/04 24/10/04	
Flight time	Mid-September to early November	
Foodplant	Beech, poplar, catkins, hawthorn, oak then low growing plants.	
BFNO	2266	
Species	Brown-spot Pinion (9)	<i>Agrochola litura</i> Linn.
Status	Vagrant, rare	
Records	Eccleston, TF 27/8/84 3/9/91 Siding Lane, RB, DO 6/9/96 Parr, RB 20/9/96 23/9/96 Marshalls X, CW 23/9/96 Town Centre, DO 19/9/98 Eccleston Park, ME 1/10/00 Haydock, G&DA 8/9/04	
Flight time	September, October	
Foodplant	Various trees and plants such as ash, oak, bramble and chickweed.	
BFNO	2267	
Species	Beaded Chestnut (21)	<i>Agrochola lychnidis</i> D&S.
Status	Vagrant, scarce	
Records	Parr, RB 20/9/96 24/9/00 25/9/00 26/9/00 23/9/01 25/9/02 Marshalls X, CW 24/9/96 Eccleston Park, ME 19/9/00 17/9/02 21/9/02 (2) 22/9/03 28/9/03 (2) Haydock, G&DA 10/10/01 Windle Wildflower Fields, RB, CD 15/9/03 Newton, SW 18/9/03 21/9/03 9/10/03 9/9/05 Queen's Park, CD 18/9/03	
Flight time	September, October	
Foodplant	Grasses and various low plants.	
BFNO	2269	
Species	Centre-barred Sallow	<i>Atethmia centrago</i> Haw.
Status	Resident, fairly common and widespread	
Records	Eccleston, TF 3/9/91	
Flight time	Mid-August to September	
Foodplant	First buds, then leaves of ash.	
BFNO	2270	
Species	Lunar Underwing	<i>Omphaloscelis lunosa</i> Haw.
Status	Resident, common and widespread	
Records	Marshalls X, CW 18/9/96	
Flight time	Late August to early October	
Foodplant	Blades, stems and roots of various grasses.	
BFNO	2271	
Species	Orange Sallow (10)	<i>Xanthia citrigo</i> Linn.
Status	Vagrant, rare	
Records	Parr, RB 5/9/00 Eccleston Park, ME 8/9/00 17/9/02 18/9/04 Haydock, G&DA 5/10/01 9/9/04 22/9/04 Queen's Park, CD 25/9/02 Newton, SW 13/9/03 9/9/05	
Flight time	August, September	
Foodplant	Lime.	
BFNO	2272	
Species	Barred Sallow (1)	<i>Xanthia aurago</i> D&S.
Status	Vagrant, rare	
Records	Queen's Park, CD 4/11/02	
Flight time	September, October	
Foodplant	Maple and beech.	
BFNO	2273	
Species	Pink-barred Sallow	<i>Xanthia togata</i> Esper.
Status	Resident, uncommon and widespread	
Records	Siding Lane, CW, DO, RB 6/9/96	
Flight time	September, October	
Foodplant	First on sallow catkins, then on low plant	

BFNO	2274	
Species	Sallow	<i>Xanthia icteritia</i> Hufn.
Status	Resident, common and widespread	
Records	Eccleston, TF 27/8/84	
Flight time	September to early October	
Foodplant	First on willow catkins, then leaves or more often on low plants.	
BFNO	2275	
Species	Dusky-lemon Sallow (5)	<i>Xanthia gilvago</i> D&S.
Status	Vagrant, rare	
Records	Parr, RB 12/10/01 14/9/03 24/9/03 Town Centre, DO 19/9/02 27/9/04	
Flight time	Late August to early October	
Foodplant	On the seeds of mainly of wych elm, but occasionally english elm.	
BFNO	2278	
Species	Poplar Grey	<i>Acrionicta megacephala</i> D&S.
Status	Resident, uncommon and fairly widespread	
Records	Eccleston, TF 16/6/90	
Flight time	Late May to early August	
Foodplant	Black poplar, aspen and sometimes other poplars.	
BFNO	2280	
Species	Miller (32)	<i>Acrionicta leporina</i> Linn.
Status	Visitor, uncommon	
Records	Town Centre, DO 13/7/98 9/7/99 18/6/00 2/6/02 1/6/03 Siding Lane, RB, KF 18/6/99 Parr, RB 12/5/00 17/6/00 3/7/01 5/7/01 30/7/01 9/7/03 Siding Lane, RB, CD, MB 1/7/00 Mossborough Hall, RB, CD 21/7/00 Eccleston Park, ME 30/5/01 30/6/01 1/7/01 8/6/03 Bold Moss, RB, CD 23/6/01 (2) Haydock, G&DA 3/7/01 Queen's Park, CD 15/7/02 18/7/02 8/7/03 Siding Lane, RB, DO 7/6/03 2/7/05 (4) 17/6/06 (2) Sutton Leach, SB&KF 14/6/04	
Flight time	Early June to early August	
Foodplant	Birch, also alder, oak, black poplar, willow.	
BFNO	2281	
Species	Alder Moth (1)	<i>Acrionicta alni</i> Linn.
Status	Vagrant, rare	
Records	Eccleston Park, ME 28/5/01. Only record.	
Flight time	May, June	
Foodplant	Birch, oak, elm, hawthorn, and many other trees.	
BFNO	2284	
Species	Grey Dagger	<i>Acrionicta psi</i> Linn.
Status	Resident, common and widespread	
Records	Eccleston, TF 31/7/91 (PER)	
Flight time	June to August	
Foodplant	Birch, oak, limes, elm, rowan, hawthorn, blackthorn and other trees.	
BFNO	2289	
Species	Knot Grass	<i>Acrionicta rumicis</i> Linn.
Status	Resident, common and widespread	
Records	Parr, RB 8/7/96	
Flight time	Early May to July	
Foodplant	Variety of plants e.g. plantain, sorrel, dock, bramble, thistle, willow, and hawthorn.	
BFNO	2293	
Species	Marbled Beauty	<i>Cryphia domestica</i> Hufn.
Status	Resident, common and widespread	
Records	Eccleston, TF 18/7/84	
Flight time	July, August	
Foodplant	Lichens growing on walls, roofs and rocks.	
BFNO	2297	
Species	Copper Underwing	<i>Amphipyra pyramidea</i> Linn.
Status	Resident, fairly common and widespread	
Records	Parr, RB 27/7/96	
Flight time	Early August to mid-October	
Foodplant	Oak, honeysuckle, ash, wild privet and probably other trees and shrubs.	
BFNO	2298	
Species	Svensson's Copper Underwing	<i>Amphipyra berbera svenssoni</i> Flecth.
Status	Resident, fairly common	
Records	Siding Lane, CW, DO, RB 15/8/97	
Flight time	Late July to September	
Foodplant	Oak, lime, willow and probably other trees and shrubs.	

BFNO	2299	
Species	Mouse Moth	<i>Amphipyra tragopoginis</i> Clerck.
Status	Resident, common and widespread	
Records	Eccleston, TF 3/9/91 (PER)	
Flight time	Late July to early September	
Foodplant	Leaves and flowers of a wide variety of wild and cultivated plants.	
BFNO	2300	
Species	Old Lady (11)	<i>Mormo maura</i> Linn.
Status	Vagrant, scarce	
Records	Siding Lane, CW, DO, RB 1/9/96 Sankey Valley Visitor Centre, DO 7/8/02 1/9/03 4/9/03 31/8/05 Newton, SW 24/8/03 3/7/04 31/7/04 20/8/05 (2) Parr, RB 14/8/04	
Flight time	July, August	
Foodplant	After hibernation, on a variety of trees and shrubs e.g. blackthorn, hawthorn, elm, willow, birch.	
BFNO	2301	
Species	Bird's Wing (13)	<i>Dypterygia scabriuscula</i> Linn.
Status	Vagrant, rare	
Records	Parr, RB 29/6/97 Town Centre, DO 24/6/99 8/7/99 Eccleston Park, ME 10/7/01 12/7/02 16/7/02 23/7/02 27/6/04 4/7/04 Newton, SW 7/6/04 9/6/04 10/6/04 5/6/06	
Flight time	Early June to mid-July	
Foodplant	Dock, sorrel and other low plants.	
BFNO	2302	
Species	Brown Rustic (20)	<i>Rusina ferruginea</i> Esp.
Status	Vagrant, scarce	
Records	Siding Lane, CAD 3/7/87 (2) Siding Lane, RB, KF 18/6/99 (4) Parr, RB 24/6/99 Siding Lane, RB, CD, MB 1/7/00 Siding Lane, RB, DO 7/6/03 (2) 17/6/06 (4) Siding Lane, RB, DO, G&DA 8/6/05 (6)	
Flight time	June, July	
Foodplant	Low plants e.g. dock, plantain, and groundsel.	
BFNO	2303	
Species	Straw Underwing	<i>Thalpophila matura</i> Hufn.
Status	Resident, common and widespread	
Records	Red Brow Wood, TF 10/8/86	
Flight time	Mid-July to early August	
Foodplant	Various grasses.	
BFNO	2305	
Species	Small Angle Shades	<i>Euplexia lucipara</i> Linn.
Status	Resident, fairly common and widespread	
Records	Prescot Road, TF 24/7/84	
Flight time	June, July	
Foodplant	Bracken, wild and cultivated ferns; also birch, willow, oak, ivy, willowherb.	
BFNO	2306	
Species	Angle Shades	<i>Phlogophora meticulosa</i> Linn.
Status	Resident, common and widespread	
Records	Eccleston, TF 23/7/87	
Flight time	May to October (double brooded)	
Foodplant	Variety of wild and cultivated plants e.g. dock, nettle, chickweed, and bramble.	
BFNO	2312	
Species	Olive (29)	<i>Ipimorpha subtusa</i> D&S.
Status	Vagrant, scarce	
Records	Parr, RB 4/8/98 30/7/00 16/7/01 20/7/01 30/7/01 (3) 13/8/01 19/8/01 29/7/02 16/8/02 21/8/02 21/7/04 Town Centre, DO 8/8/98 24/7/02 29/7/02 Queen's Park, CD 22/7/01 30/7/01 16/7/02 27/7/02 10/8/02 12/8/02 17/8/02 4/8/04 Haydock, G&DA 25/7/01 29/7/01 Newton, SW 31/7/04 1/8/04 Eccleston Park, ME 7/8/04	
Flight time	Late July to mid-September	
Foodplant	In spun leaves of aspen and poplar.	
BFNO	2314	
Species	Dingy Shears (4)	<i>Parastichtis ypsilon</i> D&S.
Status	Vagrant, rare	
Records	Town Centre, DO 25/7/97 Parr, RB 21/7/98 Haydock, G&DA 27/7/01 Sutton Leach, SB&KF 16/7/05	
Flight time	Late June to early August	
Foodplant	Mainly willow; sometimes on poplar or willow	

BFNO	2318	
Species	Dun-bar	<i>Cosmia trapezina</i> Linn.
Status	Resident, uncommon and widespread	
Records	Eccleston, TF 29/7/89	
Flight time	Mid-July to mid-September	
Foodplant	Variety of trees and shrubs.	
BFNO	2321	
Species	Dark Arches	<i>Apamea monoglypha</i> Hufn.
Status	Resident, common and widespread	
Records	Mucky Mountains, TF 6/7/84	
Flight time	June to August	
Foodplant	Upper roots and stem bases of cocks-foot and other grasses.	
BFNO	2322	
Species	Light Arches	<i>Apamea lithoxylaea</i> D&S.
Status	Resident, common and widespread	
Records	Stanley Bank Meadow, TF 12/7/85	
Flight time	Late June to early August	
Foodplant	Probably on grasses.	
BFNO	2326	
Species	Clouded-bordered Brindle	<i>Apamea crenata</i> Hufn.
Status	Resident, uncommon and fairly widespread	
Records	Parr, RB 1/6/97	
Flight time	Late May to mid-July	
Foodplant	Cocks-foot and other grasses.	
BFNO	2330	
Species	Dusky Brocade	<i>Apamea remissa</i> Hubn.
Status	Resident, common and widespread	
Records	Billinge Hill, CAD 24/6/92	
Flight time	June, July	
Foodplant	Seeds and leaves of various grasses.	
BFNO	2331	
Species	Small Clouded Brindle	<i>Apamea unanimitis</i> Hubn.
Status	Resident, common and fairly widespread	
Records	Parr, RB 20/5/97	
Flight time	Late May to early July	
Foodplant	Various grasses.	
BFNO	2334	
Species	Rustic Shoulder-knot	<i>Apamea sordens</i> Hufn.
Status	Resident, common and widespread	
Records	Parr, RB 3/5/97 (PER)	
Flight time	May, June	
Foodplant	Cocks-foot and other grasses.	
BFNO	2335	
Species	Slender Brindle (19)	<i>Apamea scolopacina</i> Esper.
Status	Vagrant, scarce	
Records	Parr, RB 6/7/97 10/7/97 (2) 13/7/97 14/7/97 Haydock, G&DA 12/7/01 (2) 14/7/01 23/7/01 25/7/01 27/7/01 30/7/01 Eccleston Park, ME 22/7/02 Newton, SW 18/7/05 19/7/05 20/7/05 22/7/05 (2) 1/8/05	
Flight time	Late June to mid-August	
Foodplant	First in the stems, and then on the leaves, stem bases and flowers of various grasses e.g. Wood millet, wood mellick, wood meadow-grass, false broom, quaking-grass and wood rush.	
BFNO	2336	
Species	Double Lobed	<i>Apamea ophiogramma</i> Esper.
Status	Resident, fairly common and fairly widespread	
Records	Stanley Bank Wood, TF 12/7/85	
Flight time	Late June to early August	
Foodplant	In stems of wild and garden varieties of reed canary grass.	
BFNO	2337	
Species	Marbled Minor	<i>Oligia strigilis</i> Linn.
Status	Resident, fairly common and widespread	
Records	Eccleston, TF 16/6/90	
Flight time	Late May to early July	
Foodplant	Internally on cocks-foot, reed canary grass and other grasses.	

BFNO	2338	
Species	Rufous Minor	<i>Oligia versicolor</i> Bork.
Status	Resident, fairly common and widespread	
Records	Eccleston, TF 15/7/87	
Flight time	Mid-June to mid-July	
Foodplant	Unknown but probably internally on grasses.	
BFNO	2339	
Species	Tawny Marbled Minor	<i>Oligia latruncula</i> D&S.
Status	Resident, common and widespread	
Records	Parr, RB 17/5/97 (PER)	
Flight time	Late May to early July	
Foodplant	Internally on various grasses.	
BFNO	2340	
Species	Middle-barred Minor	<i>Oligia fasciuncula</i> Haw.
Status	Resident, fairly common and fairly widespread	
Records	Parr, RB 8/6/97	
Flight time	June, July	
Foodplant	Leaves of various grasses.	
BFNO	2341	
Species	Cloaked Minor	<i>Mesoligia furuncula</i> D&S.
Status	Resident, fairly common but local	
Records	Parr, RB 20/7/97	
Flight time	Late July to early September	
Foodplant	Stems of various grasses e.g. tufted hair-grass, sheep's fescue etc.	
BFNO	2342	
Species	Rosy Minor (19)	<i>Mesoligia literosa</i> Haw.
Status	Vagrant, scarce	
Records	Parr, RB 2/8/97 6/8/98 30/8/98 23/8/99 30/7/00 (2) 30/8/00 20/7/01 13/8/01 17/8/01 Town Centre, DO 5/8/98 3/8/02 11/7/03 14/7/03 8/6/04 12/8/04 Eccleston Park, ME 25/7/02 19/8/05 Windle Wildflower Fields, RB, CD 16/8/03	
Flight time	Mid-July to late August	
Foodplant	In the roots and stems of various grasses.	
BFNO	2343	
Species	Common Rustic	<i>Mesapamea secalis</i> Linn.
Status	Resident, common and widespread	
Records	Eccleston, TF 27/8/84	
Flight time	July, August	
Foodplant	In stems of cocks-foot, tall fescue, tufted hair-grass and creeping soft-grass.	
BFNO	2343a	
Species	Lesser Common Rustic	<i>Mesapamea didyma</i> Esper.
Status	Unknown, probably resident and fairly widespread	
Records	Parr, RB 25/6/99 identified after genitalia inspection by Steve Palmer. Probably occurs regularly.	
Flight time	July, August	
Foodplant	Undescribed. Habits probably similar to those of <i>M. secalis</i> .	
BFNO	2345	
Species	Small Dotted Buff (4)	<i>Photodes minima</i> Haw.
Status	Vagrant, rare	
Records	Parr, RB 16/7/00 4/8/03 8/8/03 7/8/04	
Flight time	Late June to early August	
Foodplant	In the stems of tufted hair-grass.	
BFNO	2350	
Species	Small Wainscot (6)	<i>Chortodes pygmina</i> Haw.
Status	Vagrant, rare	
Records	Parr, RB 26/8/98 9/8/03 Eccleston Park, ME 26/8/01 16/9/01 Bold Moss, RB, CD 29/7/02 (2)	
Flight time	August, September	
Foodplant	In stems of various sedges, grasses and rushes.	
BFNO	2352	
Species	Dusky Sallow (3)	<i>Eremobia ochroleuca</i> D&S.
Status	Vagrant, rare	
Records	Bold Moss, RB, KF 20/7/00, this was a new species for Lancashire and only the second vice-county record, with the first being at Risley Moss on 24/7/1982. Parr, RB 16/8/02 6/8/03	
Flight time	Late July and August	
Foodplant	On the flowers and seeds of cock's-foot, couch, meadow oat grass, quaking-grass and other grasses.	

BFNO	2353	
Species	Flounced Rustic	<i>Luperina testacea</i> D&S.
Status	Resident, common and widespread	
Records	Eccleston, TF 3/9/91 (PER)	
Flight time	August, September	
Foodplant	On the roots and stem bases of various grasses.	
BFNO	2358	
Species	Saltern Ear (2)	<i>Amphipoea fucosa paludis</i> Tutt.
Status	Vagrant, rare	
Records	Eccleston Park, ME 19/8/02 Queen's Park, CD 20/8/03	
Flight time	August, September	
Foodplant	In roots and stem-bases of annual meadow grass and probably other grasses.	
BFNO	2360	
Species	Ear Moth (5)	<i>Amphipoea oculea</i> Linn.
Status	Vagrant, rare	
Records	Billinge Hill, CAD 17/8/87 (visual record) Eccleston Park, ME 27/7/02, first genitalia confirmed record 6/8/04 27/8/05 Newton, SW 9/9/04	
Flight time	Late July to September	
Foodplant	In stem-bases and roots of tufted hair-grass and other grasses, also stems of butterbur	
BFNO	2361	
Species	Rosy Rustic	<i>Hydraecia micacea</i> Esper.
Status	Resident, common and widespread	
Records	Eccleston, TF 5/8/89	
Flight time	August to October	
Foodplant	Variety of low plants e.g. dock, burdock, plantain, and horsetail.	
BFNO	2364	
Species	Frosted Orange (46)	<i>Gortyna flavago</i> D&S.
Status	Visitor, uncommon	
Records	Eccleston, TF 3/9/91 Marshalls X, CW 18/9/96 25/9/96 Parr, RB 5/9/99 (2) 7/9/00 (2) 8/9/99 7/9/00 10/9/00 (3) 13/9/00 8/9/02 12/9/02 7/9/03 Town Centre, DO 16/9/99 16/9/01 21/9/03 Eccleston Park, ME 21/8/00 14/8/02 Haydock, G&DA 16/9/01 8/9/04 (2) 17/9/04 19/9/04 Newton, SW 22/8/03 5/9/03 12/9/03 21/9/03 1/9/04 2/9/04 (2) 3/9/04 4/9/04 5/9/04 6/9/04 7/9/04 (2) 10/9/04 (3) 15/9/04 28/8/05 7/9/05 Sutton Leach, SB&KF 2/9/05	
Flight time	Late August to October	
Foodplant	In stems of burdock, foxglove, thistles and many other wild-stemmed plants.	
BFNO	2368	
Species	Crescent (5)	<i>Celaena leucostigma leucostigma</i> Hubn.
Status	Vagrant, rare	
Records	Eccleston Park, ME 23/7/01 Haydock, G&DA 28/7/01 1/8/01 Windle Wildflower Fields, RB, CD 15/9/03 Queen's Park, CD 25/8/04	
Flight time	Late July to early September	
Foodplant	Boring the leaves, stems and roots of yellow iris, great fen-sedge, and probably other plants.	
BFNO	2369	
Species	Bulrush Wainscot (14+)	<i>Celaena haworthii</i> Thunb.
Status	Vagrant, scarce	
Records	Bold Moss, 1/8/80 no recorder, noted, as very common, but next records are Bold Moss, JG 1992 no date Parr, RB 25/8/97 17/9/98 29/7/00 18/8/00 Bold Moss, RB, KF 30/8/00 (3) Bold Moss, RB, CD 26/8/01 Haydock, G&DA 21/9/01 5/10/01 7/10/01 Town Centre, DO 31/7/03	
Flight time	Late July to late September	
Foodplant	In stems of common reed mace or (bulrush).	
BFNO	2375	
Species	Large Wainscot (10)	<i>Rhizedra lutosa</i> Hubn.
Status	Vagrant, rare	
Records	Marshalls X, CW 20/9/96 Parr, RB 25/9/96 2/10/97 16/10/05 Bold Moss, RB, DO 23/9/00 (5) Sutton Leach, SB&KF 27/9/04	
Flight time	August to October	
Foodplant	Roots and stem bases of common reed.	
BFNO	2379	
Species	Small Rufous (8)	<i>Coenobia rufa</i> Haw (1)
Status	Vagrant, rare	
Records	Bold Moss, RB, KF 8/8/00 Parr, RB 28/7/01 16/8/05 Queen's Park, CD 30/7/01 1/8/01 Newton, SW 15/7/03 Eccleston Park, ME 11/7/04 Bold Moss, RB, CD 9/7/05	
Flight time	Mid-July to mid-August	
Foodplant	In the stems of jointed rush (<i>Juncus articulatus</i>) and sometimes soft rush (<i>Juncus effusus</i>)	

BFNO	2380	
Species	Treble Lines (1)	<i>Charanyca trigrammica</i> Hufn.
Status	Vagrant, rare	
Records	Eccleston Park, ME 7/6/04. Only record	
Flight time	Mid-May to early July	
Foodplant	Variety of low plants like Greater plantain, common knapweed and dwarf thistle.	
BFNO	2381	
Species	Uncertain	<i>Hoplodrina alsines</i> Brahm.
Status	Resident, common and widespread	
Records	Parr, RB 26/7/96	
Flight time	Mid-June to mid-August	
Foodplant	Dock, plantain, dandelion and other low plants.	
BFNO	2382	
Species	Rustic	<i>Hoplodrina blanda</i> D&S.
Status	Resident, fairly common	
Records	Siding Lane, TF 4/7/86	
Flight time	Late June to mid-August	
Foodplant	Variety of low plants.	
BFNO	2385	
Species	Small Mottled Willow (3) (migrant species)	<i>Spodoptera exigua</i> Hubn.
Status	Migrant, rare	
Records	Town Centre, DO 24/6/00 Parr, RB 23/8/03 (2)	
Flight time	Normally appears from mid-July to October, but has been recorded as early as February.	
Foodplant	Has been found on <i>Persicaria</i> , in captivity it will accept dandelion and groundsel.	
BFNO	2387	
Species	Mottled Rustic	<i>Caradrina morpheus</i> Hufn.
Status	Resident, common and widespread	
Records	Parr, RB 2/6/97 (PER)	
Flight time	June to early August	
Foodplant	Nettle, dandelion and other low plants.	
BFNO	2389	
Species	Pale Mottled Willow	<i>Paradrina clavipalpis</i> Scop.
Status	Resident, fairly common and fairly widespread	
Records	Parr, RB 1/5/97	
Flight time	February to November	
Foodplant	Growing and harvested ears of wheat and other cereals.	
BFNO	2391	
Species	Silky Wainscot	<i>Chilodes maritimus</i> Tauscher.
Status	Resident, fairly common	
Records	Parr, RB 18/7/99	
Flight time	Mid-June to mid-August	
Foodplant	Forages in old reed-stems, feeding on a variety of animal and vegetable matter.	
Subfamily: HELIOTHINAE		
BFNO	2399	
Species	Bordered Sallow (5)	<i>Pyrrhia umbra</i> Hufn.
Status	Vagrant, rare	
Records	Parr, RB 19/6/98 Town Centre, DO 15/8/99 14/7/00 4/7/01 Queen's Park, CD 6/7/04	
Flight time	June, July	
Foodplant	Flowers, seeds and leaves of restharrow.	
BFNO	2403 (New 2006)	
Species	Bordered Straw (2)	<i>Heliothis peltigera</i> D&S.
Status	Migrant, rare	
Records	Newton, SW 13/6/06 Parr, RB 14/6/06	
Flight time	June to August, sometimes earlier or later.	
Foodplant	Flowers of sticky groundsel, garden marigolds and restharrow.	
Subfamily: ACONTIINAE		
BFNO	2412	
Species	Silver Hook (7)	<i>Deltote uncula</i> Clerck.
Status	Vagrant, rare	
Records	Town Centre, DO 11/7/97 20/6/98 Bold Moss, RB, G&DA 22/7/01 Parr, RB 16/6/02 Bold Moss, RB, CD 31/5/03 9/7/05 (2)	
Flight time	Late May to early July	
Foodplant	Coarse grasses including tufted hair-grass.	

BFNO 2421
 Species Scarce Silver-lines (5) *Bena bicolorana* Linn.
 Status Vagrant, rare
 Records Eccleston, TF 12/7/94 Town Centre, DO 9/7/98 Parr, RB 17/7/98 Eccleston Park, ME 23/7/01 Queen's Park, CD 17/7/04
 Flight time Late June to early August
 Foodplant Oak.

BFNO 2422
 Species Green Silver-lines (33) *Pseudoips prasinana britannica* Fabr.
 Status Visitor, uncommon
 Records Eccleston, TF 3/6/93 Marshalls X, CW 1996 no date 22/6/97 24/6/97 Coach Road, RB 27/5/99 Town Centre, DO 22/6/99 7/6/03 Parr, RB 14/5/00 Haydock, G&DA 20/6/01 30/5/05 Eccleston Park, ME 22/6/01 24/6/01 (5) 3/7/01 4/7/01 5/7/01 2/6/02 21/6/02 29/5/03 14/6/03 15/6/03 16/6/03 Queen's Park, CD 2/7/01 Bold Moss, RB, CD 31/5/03 Newton, SW 4/6/04 12/6/04 15/6/06 Sutton Leach, SB&KF 6/6/04 (2) 7/6/04
 Flight time June, July
 Foodplant Oak, beech, aspen, birch, hazel and other trees.

BFNO 2423
 Species Oak Nycteoline (1) *Nycteola revayana* Scop.
 Status Vagrant, rare
 Records Parr, RB 21/4/03
 Flight time September, November, after hibernation March, May
 Foodplant Oak.

Subfamily: PANTHEINAE

BFNO 2434
 Species Burnished Brass *Diachrysia chrysitis* Linn.
 Status Resident, fairly common and widespread
 Records Mucky Mountains, TF 6/7/84
 Flight time July, August
 Foodplant Common nettle and other low plants.

BFNO 2437
 Species Golden Plusia (12) *Polychrysia moneta* Fabr.
 Status Vagrant, scarce
 Records Eccleston, TF 12/7/86 2/7/87 4/7/87 Town Centre, DO 19/6/97 15/7/97 18/7/97 29/6/04 Marshalls X, CW 8/7/97 Haydock, G&DA 14/7/01 Newton, SW 15/7/04 16/6/06 Eccleston, KM 2/7/04
 Flight time Late June to early August
 Foodplant Common nettle, yarrow, bladder campion, mayweed, field wormwood and corn chamomile.

BFNO 2439
 Species Gold Spot *Plusia festucae* Linn.
 Status Resident, fairly common and widespread
 Records Sankey Valley, PG 13/8/82
 Flight time Late May to mid-August
 Foodplant Marshland grasses and plants e.g. yellow iris, bur-reed.

BFNO 2440
 Species Lempke's Gold Spot (2) *Plusia putnami gracilis* Lempke.
 Status Vagrant, rare
 Records Parr, RB 3/7/01 Mossborough Hall, RB. CD 6/7/01
 Flight time July to early August
 Foodplant Probably on marshland grasses and other plants.

BFNO 2441
 Species Silver Y (resident and migratory species) *Autographa gamma* Linn.
 Status Migrant, common and widespread most years
 Records Eccleston, TF 31/7/84
 Flight time Spring to late Autumn
 Foodplant Every kind of low wild and cultivated plants.

BFNO 2442
 Species Beautiful Golden Y (15) *Autographa pulchrina* Haw.
 Status Vagrant, scarce
 Records Eccleston, TF 13/6/88 17/6/88 Parr, RB 7/7/00 2/6/03 4/6/03 Mossborough Hall, RB, CD 6/7/01 Eccleston Park, ME 26/6/02 25/6/03 (2) 12/7/03 Queen's Park, CD 3/7/04 Sutton Leach, SB&KF 24/8/04 30/8/04 Newton, SW 17/6/05 3/7/05
 Flight time June, July
 Foodplant Honeysuckle, dead nettle and other low plants.

BFNO 2443
 Species Plain Golden Y *Autographa jota* Linn.
 Status Resident, common and widespread
 Records Eccleston, TF 5/7/86
 Flight time Mid-June to early August
 Foodplant Common nettles, cultivated honeysuckle and others.

BFNO 2444
 Species Gold Spangle (4) *Autographa bractea* D&S.
 Status Vagrant, rare
 Records Billinge, AM 27/6/89 Queen's Park, CD 7/7/03 Parr, RB 5/8/03 Newton, SW 24/8/03
 Flight time July to early August
 Foodplant Low plants, in captivity nettle and dock.

BFNO 2449
 Species Dark Spectacle *Abrostola triplasia* Werneb.
 Status Resident, common and widespread
 Records Parr, RB 26/5/97
 Flight time June, July
 Foodplant Common nettles.

BFNO 2450
 Species Spectacle *Abrostola tripartita* Linn.
 Status Resident, common and widespread
 Records Eccleston, TF 6/7/92
 Flight time May to mid-July
 Foodplant Common nettles.

Subfamily: CATOCALINAE

BFNO 2452
 Species Red Underwing *Catocala nupta* Linn.
 Status Resident, fairly common
 Records Parr, RB 17/8/96
 Flight time August, September
 Foodplant Willow, poplar, aspen.

BFNO 2462
 Species Mother Shipton (23) *Callistege mi* Clerck.
 Status Vagrant, scarce
 Records Bold Moss, RB 21/6/98 5/6/99 13/5/00 (5) 5/5/02 28/5/03 Linkway Pool area, RB 12/5/00 (5) Clock Face Colliery C/Park, RB 13.5.00 (2) Lea Green Tip, RB 14/5/00 (3) Stanley Bank Meadow, DO 31/5/01 Bold Moss, RB, G&DA 30/5/05 (2) Ashton Cross, G&DA 6/6/05
 Flight time May, June
 Foodplant Clover.

Subfamily: OPHIDERINAE

BFNO 2466
 Species Blackneck (5) *Lygephila pastinum* Treit.
 Status Vagrant, rare
 Records Bold Moss, RB, CD 23/6/01 Newton, SW 14/7/03 Parr, RB 9/7/05 13/7/05 Mercer Road, RB 23/6/06
 Flight time Mid-June to mid-July
 Foodplant Tufted vetch.

BFNO 2469
 Species Herald *Scoliopteryx libatrix* Linn.
 Status Resident, fairly common and widespread
 Records Marshalls X, CW 22/8/96
 Flight time Late July to November, then after hibernation March to June
 Foodplant Sallow, willow, aspen, osier, poplar.

BFNO 2474
 Species Straw Dot *Rivula sericealis* Scop.
 Status Resident, fairly common
 Records Siding Lane, CAD 3/7/87
 Flight time Mid-June to late July
 Foodplant Various grasses.

Subfamily: HYPENINAE

BFNO	2377	
Species	Snout	<i>Hypena proboscidalis</i> Linn.
Status	Resident, common and widespread	
Records	Eccleston, TF 18/7/84	
Flight time	1 st brood mid-June to early August 2 nd brood September to early October	
Foodplant	Common nettles.	
BFNO	2484	
Species	Pinion-streaked Snout (21)	<i>Schrankia costaestrigalis</i> Steph.
Status	Vagrant, scarce	
Records	Parr, RB 28/9/01 18/9/03 17/6/05 12/9/05 Newton, SW 4/9/03 7/6/04 Sutton Leach, SB&KF 21/7/04 14/6/05 15/6/05 20/6/05 (2) 29/6/05 Haydock, G&DA 17/9/04 18/9/04 19/9/04 20/9/04 26/9/04 Bold Moss, RB, CD 9/7/05 (3) Eccleston Park, ME 11/7/05	
Flight time	Late June to early August, with partial 2 nd brood September, October	
Foodplant	In captivity on lettuce, flowers of thyme and wild mint, and damp withered willow leaves	
BFNO	2489	
Species	Fan-foot	<i>Zanclognatha tarsipennalis</i> Treit.
Status	Resident, common and widespread	
Records	Eccleston, TF 8/7/94	
Flight time	June, July	
Foodplant	Dried and withered leaves of beech, oak, raspberry, bramble and other trees.	
BFNO	2492	
Species	Small Fan-foot	<i>Herminia grisealis</i> Fabr.
Status	Resident, common and widespread	
Records	Parr, RB 11/7/96 (PER)	
Flight time	June to August	
Foodplant	Oak, alder, on living leaves and also decaying leaves on ground or attached to fallen or partly broken branches.	

6. THE SYSTEMATIC LIST (BUTTERFLIES)

HESPERIIDAE

BFNO 1526
Species Small Skipper *Thymelicus sylvestris* Poda
Status Resident, fairly common and fairly widespread
Records Stanley Bank Meadow, DO 19/7/96 (PER) since this sighting, this species has been recorded annually in good numbers throughout our area.
Flight time July to early August
Foodplant Tall grass stems, usually Yorkshire Fog.

BFNO 1531
Species Large Skipper *Ochlodes venata* B&G
Status Resident, fairly common and widespread
Records Sankey Valley Park, SVR 1979 recorded as occasional in survey and is still fairly common within our area.
Flight time Mid-June to late July
Foodplant Various grasses.

PIERIDAE

BFNO 1545
Species Clouded Yellow *Colias croceus* Geoff
Status Migrant, numbers very variable in some years.
Records Sankey Valley Park, SVR 1984 (PER) recorded as rare in survey with other recent records being, Heswall Avenue, C&JG 15/8/92 Bridleway Meadow, DO 1/10/92 Bold Moss, RB 2/7/98 3/9/00 (2) Stanley Bank Wood, CT 2/7/98 Reeds Moss, RB & CD 18/6/00 Lea Green Flash, RB 19/7/00 Ruskin Park, CD 3/9/00.
Flight time Late summer to early autumn
Foodplant Leguminous plants such as lucerne and vetches.

BFNO 1546
Species Brimstone *Gonepteryx rhamni* Linn
Status Vagrant, scarce. Apparently, in earlier years this species was quite common, but through loss of habitat it has declined in our district. There are no early records for this species available at present with the more recent records listed below.
Records Bridleway Meadow, DO 18/4/98 Garswood Old Road, BH 3/5/99 Sankey Valley, AM 31/7/99 Bold Moss, RB 4/9/99 13/5/00 Sankey Valley, RB 16/4/00 near Broadoak Bridge Clock Face, C&JG 24/8/00
Flight time Late summer to autumn, hibernates
Foodplant Buckthorn and alder buckthorn.

BFNO 1549
Species Large White *Pieris brassicae* Linn
Status Resident, common and widespread
Records Sankey Valley Park, SVR 1979 recorded as abundant in survey and still common within our area.
Flight time 1st brood May, June 2nd brood July, August
Foodplant Cabbages and other cruciferous plants.

BFNO 1560
Species Small White *Pieris rapae* Linn
Status Resident, common and widespread
Records Sankey Valley Park, SVR 1979 recorded as occasional in survey and is now common within our area.
Flight time Spring to autumn
Foodplant Cabbages and other cruciferous plants.

BFNO 1561
Species Green-veined White *Pieris napi* Linn
Status Resident, fairly common and widespread
Records Sankey Valley Park, SVR 1979 recorded as frequent in survey and is still fairly common within our area.
Flight time 1st brood May, June 2nd brood late June to August
Foodplant Cruciferous plants.

BFNO 1533
 Species Orange Tip *Anthocaris cardamines* Linn
 Status Resident, fairly common and widespread
 Records Sankey Valley Park, SVR 1979 recorded as frequent in survey and is still fairly common within our area.
 Flight time May, June
 Foodplant Seed pods of cuckoo flower and other cruciferous plants.

LYCAENIDAE

BFNO 1557
 Species Purple Hairstreak *Quercusia quercus* Linn
 Status Resident, uncommon and local
 Records Glasshouse Close Wood, RB 5/8/97 this was the first record of this species which was also seen in 1998 at the same location. Chadwick Green, AM 26/7/99. Also in 1999 another colony was located in Sherdley Park, but no further details at present.
 Flight time Mid-July to mid-August
 Foodplant Oak buds.

BFNO 1558
 Species White-letter Hairstreak *Strymonidia w-album* Knoch
 Status Resident, scarce
 Records Sankey Valley Park, DO, RB 12/7/97 this was another new record for St.Helens, but due to adverse weather conditions in 1998, the butterflies were not seen although the leaves of the wych elm on which the caterpillar feed on were eaten. There is also a wych elm in Chain Lane that had its leaves eaten, but again no butterflies were seen. Unfortunately the wych elm at Sankey Valley has died in 2000, and with it the colony.
 Flight time July to early August
 Foodplant At first elm flowers, later elm leaves.

BFNO 1561
 Species Small Copper *Lycaena phlaeas* Linn
 Status Resident, fairly common and widespread
 Records Sankey Valley Park, SVR 1979 recorded as frequent in survey and still fairly common within our area.
 Flight time 1st brood May, June 2nd brood July, August
 Foodplant Docks and sorrels; particularly sheep's sorrel and sometimes knotgrass.

BFNO 1569 (New)
 Species Small Blue *Cupido minimus* Fuessly
 Status Visitor, rare
 Records Sidac Social Club, KF 18/6/00 the first record of this species for St Helens, it may have been passing through the area or there may possibly be a small colony in the area. This is usually a sedentary species that occur in small isolated colonies.
 Flight time 1st brood mid-May to mid-June, 2nd brood mid-August
 Foodplant Kidney Vetch

BFNO 1574
 Species Common Blue *Polyommatus icarus* Rott
 Status Resident, fairly common and widespread
 Records Sankey Valley Park, SVR 1979 recorded as abundant in survey and is still fairly common within our area.
 Flight time May to September
 Foodplant Leguminous plants especially birds' foot trefoil.

BFNO 1580
 Species Holly Blue *Celastrina argiolus* Linn
 Status Resident, uncommon and fairly widespread
 Records Birchley Street Car park, CAD 31/7/92, recorded annually in varying number within our area.
 Flight time 1st brood April, May 2nd brood July, August
 Foodplant Flowers of several trees and shrubs, especially holly.

NYMPHALIDAE

BFNO 1590
 Species Red Admiral *Vanessa atalanta* Linn
 Status Migrant, annual numbers very variable each year, widespread
 Records Siding Lane, TF 18/9/83 Sankey Valley Park, SVR 1984 recorded as occasional in survey. This species has been recorded annually in varying numbers throughout our area.
 Flight time Late summer to autumn
 Foodplant Nettles.

BFNO	1591	
Species	Painted Lady	<i>Cynthia cardui</i> Linn
Status	Migrant, numbers very variable each year, widespread	
Records	Sankey Valley Park, SVR 1984 (PER) recorded as rare in survey but in recent years has been recorded annually in varying numbers throughout our area.	
Flight time	July to autumn	
Foodplant	Thistles (cirsium and carduus)	
BFNO	1593	
Species	Small Tortoiseshell	<i>Aglais urticae</i> Linn
Status	Resident, common and widespread	
Records	Sankey Valley Park, SVR 1979 recorded as abundant in survey with a count of 215 on Billinge Hill, CD 17/8/85 and still common within our area.	
Flight time	Late June to early autumn (two broods)	
Foodplant	Nettles.	
BFNO	1597	
Species	Peacock	<i>Inachis io</i> Linn
Status	Resident, common and widespread	
Records	Sankey Valley Park, SVR 1984 (PER) recorded as frequent in survey and is still fairly common within our area.	
Flight time	Late July to September	
Foodplant	Nettles.	
BFNO	1598	
Species	Comma	<i>Polygonia c-album</i> Linn
Status	Resident, uncommon and fairly widespread	
Records	Sankey Valley Park, RB 24/6/96 this species has increased in number over the last few years and is now recorded regularly in varying numbers.	
Flight time	1 st brood June 2 nd brood end of July the hibernates	
Foodplant	Nettles (urtica) and currant (ribes).	

SATYRIDAE

BFNO	1614	
Species	Speckled Wood	<i>Pararge aegeria</i> Linn
Status	Resident, common and widespread	
Records	Hollins Hey Wood, DO 1986 no date. This species has increased in numbers over the last few years.	
Flight time	1 st brood late April to mid-May 2 nd brood late May to early July	
Foodplant	3 rd brood August to late autumn, hibernates Various grasses.	
BFNO	1615	
Species	Wall	<i>Lasiommata megera</i> Linn
Status	Resident, uncommon and widespread	
Records	Sankey Valley Park, SVR 1979 Sankey Valley Park. This species is now recorded annually throughout our area, especially on Bold Moss where good numbers can be seen.	
Flight time	June to August	
Foodplant	Various common grasses, especially annual meadow grass (poa annua).	
BFNO	1621	
Species	Grayling	<i>Hipparchia semele</i> Linn
Status	Vagrant, rare	
Records	Billinge Hill, DO 25/8/91 only record, prefers coastal areas	
Flight time	Early July to August	
Foodplant	Various grasses, especially festuca and deschampsia species.	
BFNO	1625	
Species	Gatekeeper	<i>Pyronia tithonus</i> Linn
Status	Resident, common and widespread	
Records	Stanley Bank Meadow, DO 19/7/96 (PER) this species is recorded annually in good numbers throughout our area	
Flight time	Mid-July to August	
Foodplant	Various grasses	
BFNO	1626	
Species	Meadow Brown	<i>Maniola jurtina</i> Linn
Status	Resident, common and widespread	
Records	Sankey Valley Park, SVR 1979 recorded as abundant in survey and is still very common within our area.	
Flight time	End of June to August	
Foodplant	Various grasses.	

7. THE SYSTEMATIC LIST (DRAGONFLIES) ODONATA

ZOEGOPTERA

COENAGRIIDAE

Species Red-eyed Damselfly *Erythromma najas* Hans
Status Resident, uncommon and local
Records Leg O Mutton and Paddock Dam, RB 9/6/98 this was a new species for St.Helens and is the only known site in the area for this species, which was at the time potentially the most northerly location. This species is present at the same location. In 2006 a new site was found on Sankey Canal, with up to 3m being seen.
Flight time End of May to early August
Habitat This species favours lakes and large ponds and occasionally slow-moving rivers and canals where the current is sufficiently slow to allow the growth of Water-lilies and other floating plants. Females oviposit in submerged stems of a variety of plants including, Yellow (Nuphar lutea) and White Water lilies (Nymphaea alba), Fringed Water-lilies (Nymphoides peltata), Broad-leaved Pondweed (Potamogeton natans) and Amphibious Bistort (Polygonum amphibium).

Species Azure Damselfly *Coenagrion puella* Linn
Status Resident, common and widespread
Records Sankey Valley Park, IW 10/9/79 Sankey Valley Park, SVR 1984 (PER) recorded as present in survey and is still common within our area.
Flight time End of May to mid-August
Habitat Found in a wide range of water-bodies and is often abundant amongst vegetation adjacent to lakes, ponds including garden ponds, ditches and dykes. It will tolerate eutrophic sites but is sensitive to pollution

Species Common Blue Damselfly *Enallagma cyathigerum* Charp
Status Resident, fairly common and widespread
Records Sankey Valley Park, RB 8/6/97, this species is recorded annually in various locations throughout the area.
Flight time End of May to mid-September
Habitat This species occurs in a great variety of habitats, including both stagnant and running water such as gravel pits, lakes, ponds, canals and slow rivers.

Species Large Red Damselfly *Pyrrhosoma nymphula* Sulz
Status Resident, fairly common
Records Bold Moss, RB 16/5/98 a new record for St.Helens. Sightings of this species have increased dramatically in the year 2000, being seen in good numbers at several locations. Pairs in tandem and ovipositing have been noted, with 30+ being seen at Lea Green Flash.
Flight time End of May to early August
Habitat This species frequents ponds, ditches, seepage's, canals, sluggish streams and acid bog pools. It can often be found feeding in patches of sunlight in woodlands or along hedge margins.

Species Blue-tailed Damselfly *Ischnura elegans* Charp
Status Resident, common and widespread
Records Sankey Valley Park, SVR (PER) recorded as present in survey and is still very common within our area.
Flight time End of May to end of August
Habitat This early coloniser of new ponds can tolerate a degree of pollution and brackish water and frequents pools, canals, ditches, lakes and slow-flowing streams. It is often the only species present on partially polluted ponds.

LESTIDAE

Species Emerald Damselfly *Lestes sponsa* Hans
Status Resident, common and fairly widespread
Records Cambourne Pond, CT 17/8/97 (3), this species is recorded annually in good numbers throughout the area, especially at Bold Moss.
Flight time Mid-July to mid-August
Habitat This species occurs on ponds, ditches, canals and lake with abundant emergent vegetation. It is also associated with acid bog pools and with fairly brackish water.

CALOPTERYGIDAE

Species	Banded Demoiselle	<i>Calopteryx splendens</i> Har
Status	Vagrant, scarce	
Records	Newton Canal, DO mid to late 1980s no exact date. Sankey Brook, at the Newton end DO 30/6/00 (2 m & f) Bold Moss, RB 23/7/01 (1m). 2006 saw an explosion of this species with 30+ males being seen on Sankey Brook, near Havannah Flash, and 8+ males on Sankey Brook near Bradley Locks.	
Flight time	Early June to early August	
Habitat	This species frequents sluggish streams, rivers and canals with muddy beds and bankside vegetation, it will also occasionally breed in lakes adjacent to rivers.	

ANISOPTERA

AESHNIDAE

Species	Southern Hawker	<i>Aeshna cyanea</i> Mull
Status	Resident, fairly common and widespread	
Records	Sankey Valley Park, IW 10/9/79 Sankey Valley Park, SVR 1984 recorded as present in survey, and is recorded annually in varying numbers throughout the area.	
Flight time	End of July to September onwards	
Habitat	Regularly breeds in ponds, small lakes reservoirs and canals and often found in urban areas, such as park ponds and small garden pools. Adults can be encountered hawking for insects along lanes and hedgerows and can be very inquisitive, approaching within a meter or two of the observer. They can often be seen flying till dusk on warm moonlit evenings.	

Species	Brown Hawker	<i>Aeshna grandis</i> Linn
Status	Resident, common and widespread	
Records	Sankey Valley Park, SVR 23/7/79 recorded annually in good number throughout the area	
Flight time	End of July to mid-September	
Habitat	Females oviposit in submerged plants growing in ponds, dykes, lakes, canals, gravel pits and slow-flowing rivers. They can also be encountered in urban areas such as park and garden ponds and remain active until dusk. They are reasonably tolerant of pollution and may be the only hawkler breeding at a partially polluted site.	

Species	Common Hawker	<i>Aeshna juncea</i> Linn
Status	Vagrant, rare	
Records	Bold Moss, RB 1/9/97 (f) 21/8/99 (6+m) 4/9/99 (5+m 2f) 22/7/00 (3m) This species looks to have colonised Bold Moss in 1999.	
Flight time	Early July to mid-September	
Habitat	A wide variety of still waters, including ponds, small moorland pools and lakes are used by this species. It will use neutral, as well as acid, sites. Common Hawklers can often be seen feeding in woodland rides and other sheltered areas and can be active until early evening in suitable weather conditions.	

Species	Migrant Hawker	<i>Aeshna mixta</i> Latr
Status	Resident, fairly common and widespread	
Records	Garswood Old Road, CT 15/8/97 (3) this was a new record for St.Helens. Since this initial sighting this species has steadily increased in numbers and locations within our area, with at least 6 at Bold Moss, CT RB 25/8/97 including a pair copulating. Still recorded annually at various locations throughout the area.	
Flight time	Early August to September onwards.	
Habitat	Occurs in gravel pits, ponds, lakes, canals and slow-moving rivers and can also tolerate brackish water conditions. This species has steadily moved northwards over the last few years from its southern stronghold. They are very wary and are easily disturbed.	

Species	Emperor Dragonfly	<i>Anax imperator</i> Leach
Status	Resident, uncommon and fairly widespread	
Records	Linkway Pool, CT 3/8/96 this was the first record for St Helens. Since this initial sighting this species has been recorded in increasing numbers throughout the area, with 24m and 4f being seen on Bold Moss 10/6/06.	
Flight time	Mid-June, July	
Habitat	This species can be found patrolling over open water or around reed beds on ponds, lakes, gravel pits and sometimes ditches and canals. It may occur at high density at a site for a few years before becoming much less common or disappearing altogether.	

LIBELLULIDAE

Species Status Records	Black-tailed Skimmer (New 2000) Resident, uncommon Bold Moss, KF 7/7/00 this was the first record for St Helens, and one that has been expected since it has been seen in surrounding areas in recent years. Bold Moss is the stronghold for this species, but since 2003 it has been recorded in increasing numbers at various locations throughout our area.	<i>Orthetrum cancellatum</i> Linn
Flight time Habitat	Late May to late July Occurs on slow rivers and lakes, and also on small ponds and marshes with exposed marginal areas with bare soil and stones on which it can be seen perched in sunny weather. A fast, low-flying and highly active species.	
Species Status Records	Broad-bodied Chaser Resident, fairly common and fairly widespread Cambourne Pond, GL 31/5/97 1m this was the first record for St Helens. Since this initial sighting, this species has been recorded in increasing numbers at various locations throughout the area.	<i>Libellula depressa</i> Linn
Flight time Habitat	Mid-May to end of July Quickly colonises new or semi-permanent sites, including small open ponds and ditches. It may also use garden ponds and will breed in well-vegetated or even mildly polluted and brackish waters.	
Species Status Records	Four-spotted Chaser Resident, common and widespread Cambourne Pond, DO RB 24/6/96 (PER) recorded annually at various location throughout the area	<i>Libellula quadrimaculata</i> Linn
Flight time Habitat	Mid-May to mid-August Occurs in a wide range of habitats, including shallow ponds, lakes, canals, dykes, slow-flowing streams, heathland and moorland bogs and even brackish water. It often colonises new flooded gravel pits and may breed in garden ponds.	
Species Status Records	Black Darter Resident, uncommon and local Bold Moss, CT 25/8/97 recorded annually since the first sighting at this location, also one at Cambourne Pond, CT 17/9/97	<i>Sympetrum danae</i> Sulz
Flight time Habitat	End of July to mid-September A species of peat moss and moorland bogs, also shallow, acidic, nutrient-poor pools and drainage ditches. The adult may undertake migratory journeys, and so is likely to appear far from water or in locations that do not support breeding populations.	
Species Status Records	Ruddy Darter Vagrant, scarce Siding Lane, DO 15/8/97 at least 4 individuals, Bold Moss, RB 25/8/97 (1) Cambourne Pool, AM 28/8/99 (2+) these are the only records of this species within the area, with none being seen since.	<i>Sympetrum sanguineum</i> Mull
Flight time Habitat	July, August The Ruddy Darter prefers shallow, well-vegetated ponds and lakes frequently situated in woodland. It can also be found on canals, ditches, boggy pools and occasionally streams.	
Species Status Records	Common Darter Resident, common and widespread Sankey Valley Park, SVR 1984 (PER) recorded as present in survey and is still very common within are area	<i>Sympetrum striolatum</i> Char
Flight time Habitat	July to September onwards The Common Darter occurs in a wide range of waterbodies, including ponds, lakes, ditches, rivers and other stagnant shallow waters. They will tolerate all but shaded or polluted sites, even brackish water. The males can often be found perched in sunny spots on the ground, on rocks, on logs sometimes far away from water in woods, parks and gardens.	
Species Status Records	Red-veined Darter (New 2006) Migrant, rare Prescot Reservoirs, ST 11/6/06 Eccleston Mere, CD 11/6/06 17/6/06 (3m) Eccleston Mere, RB 17/6/06 (2m same as CD,s)	<i>Sympetrum fonscolombii</i> Selys
Flight time Habitat	June to August Prefers large shallow, weedy standing water, including brackish types.	

8. INITIALS AND FULL NAMES OF RECORDERS

DA	Anderson. D	LWT	Lancashire Wildlife Trust
G&DA	Atherton, G&D	GL	Langley. G
RB	Banks. R	AM	Middlehurst. FA
SB	Briers. S	DO	Owen. D
CAD	Darbyshire. C	LP	Prout. LB (1905)
CD	Davies. C	ST	Tomlinson. S
ME	Edmundson. M	SVR	Sankey Valley Ranger Service
TF	Ferguson. T	CT	Twist. C
KF	Foster, K	MU	Unsworth. M
PG	Gateley. P	IW	Wallace. ID (1979)
C&JG	Gould. C&J	W&T	Wilkinson & Twist
JG	Guest. J	MW	Woodhead. M (1946)
KH	Hughes. K	CW	Wormwell. C

9. REFERENCES

- 1983 Hammond. Cyril (revised by Robert Merrit) The Dragonflies of Great Britain and Ireland 2nd Edition
- 1984 Skinner. Bernard. Colour Identification Guide to Moths of the British Isles
- 1984 Countryside Range Service. Sankey Valley Park Species List
- 1984 LWT. St Helens Local Group Annual Report
- 1992 Thomas. JA. Butterflies of the British Isles
- 1992 Emmet & Heath. The Moths and Butterflies of Great Britain and Ireland. Volume 7 Part 2
- 1997 Brooks & Lewington. Field Guide to the Dragonflies and Damselflies of Great Britain and Ireland

10. USEFUL ADDRESSES

Amateur Entomologists Society.

c/o 355 Hounslow Road, Hanworth, Feltham, Middlesex, TW13 5JH

British Butterfly Conservation Society.

PO Box 22, Dedham, Colchester, Essex CO7 6EY

British Dragonfly Society.

W. Wain, The Haywain, Hollywater Road, Bordon, Hants. GU35 0AD

British Entomological and Natural History Society.

74 South Audley Street, London, W1Y 5FF

Groundwork Trust.

19-27 Shaw Street, St Helens, Merseyside, WA10 1DF Tel. 01744 739396

National Dragonfly Museum.

Ashton Mill, Oundle, Peterborough, PE8 5LZ. Tel. 01832 272427

Royal Society for the Protection of Birds.

The Lodge, Sandy, Bedfordshire, SG19 2DC

Sankey Valley Ranger Centre.

Blackbrook Road, St Helens, Merseyside. Tel. 01744 739252

ENTOMOLOGICAL EQUIPMENT

Watkins & Doncaster.

PO Box 5, Cranbrook, Kent, TN18 5EZ. Tel. 01580 753133

11. INDEX TO ENGLISH NAMES (MOTHS) USING BFNO & PAGE NUMBERS

NAME	BFNO	PAGE	NAME	BFNO	PAGE
Alder Moth	2281	34	Cloaked Minor	2341	37
Angle Shades	2306	35	Clouded Border	1887	17
Antler Moth	2176	29	Clouded Drab	2188	30
Autumnal Rustic	2117	26	Clouded Silver	1958	20
Barred Red	1962	21	Clouded-bordered Brindle	2326	36
Barred Rivulet	1804	13	Common Carpet	1738	10
Barred Sallow	2272	33	Common Emerald	1669	8
Barred Straw	1758	11	Common Footman	2050	24
Barred Yellow	1765	11	Common Lutestring	1657	7
Beaded Chestnut	2267	33	Common Marbled Carpet	1764	11
Beautiful Carpet	1748	10	Common Pug	1834	14
Beautiful Golden Y	2442	40	Common Quaker	2187	30
Beautiful Yellow Underwing	2142	28	Common Rustic	2343	37
Bedstraw Hawk-moth	1987	21	Common Swift	17	6
Bird's Wing	2301	35	Common Wainscot	2199	31
Black Rustic	2232	31	Common Wave	1956	20
Blackneck	2466	41	Common White Wave	1955	20
Blair's Shoulder-knot	2240	32	Convolvulus Hawk-moth	1972	21
Blood-vein	1682	8	Copper Underwing	2297	34
Blotched Emerald	1667	8	Coxcomb Prominent	2008	23
Blue-bordered Carpet	1766	11	Crescent	2368	38
Bordered Pug	1839	15	Currant Clearwing	373	6
Bordered Sallow	2399	39	Currant Pug	1832	14
Bordered Straw	2403	39	Dark Arches	2321	36
Bordered White	1954	20	Dark Chestnut	2259	32
Brick	2262	32	Dark Marbled Carpet	1762	11
Bright-line Brown-eye	2160	28	Dark Spectacle	2449	41
Brimstone Moth	1906	17	Dark Spinach	1749	10
Brindled Beauty	1927	19	Dark Sword-grass	2091	25
Brindled Green	2248	32	Dark-barred Twin-spot Carpet	1725	9
Brindled Pug	1852	15	Death's-head Hawk-moth	1973	21
Broad-barred White	2164	29	December Moth	1631	7
Broad-bordered Yellow U/W	2110	26	Deep-brown Dart	2231	31
Broken-barred Carpet	1773	12	Dingy Shears	2314	35
Broom Moth	2163	28	Dingy Shell	1874	16
Brown Rustic	2302	35	Dog's Tooth	2159	28
Brown Silver-line	1902	17	Dot Moth	2155	28
Brown-line Bright-eye	2192	30	Dotted Border	1934	19
Brown-spot Pinion	2266	33	Dotted Clay	2130	27
Buff Arches	1653	7	Double Dart	2114	26
Buff Ermine	2061	24	Double Lobed	2336	36
Buff Footman	2049	24	Double Square-spot	2128	27
Buff Tip	1994	22	Double-striped Pug	1862	16
Bulrush Wainscot	2369	38	Drinker	1640	7
Burnished Brass	2434	40	Dun-bar	2318	35
Cabbage Moth	2154	28	Dusky Brocade	2330	36
Campion	2166	29	Dusky Sallow	2352	37
Canary-shouldered Thorn	1913	18	Dusky Thorn	1914	18
Centre-barred Sallow	2269	33	Dusky-lemon Sallow	2275	34
Chestnut	2258	32	Dwarf Pug	1857	16
Chevron	1755	11	Ear Moth	2360	38
Chinese Character	1651	7	Early Grey	2243	32
Cinnabar	2069	24	Early Thorn	1917	18
Clay	2193	30	Early Tooth-striped	1881	17

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Elephant Hawk-moth	1991	22	Lesser Broad-bordered YUW	2111	26
Engrailed	1947	20	Lesser Common Rustic	2343	37
Eyed Hawk-moth	1980	21	Lesser Swallow Prominent	2006	22
Fan-foot	2489	42	Lesser Yellow Underwing	2109	26
Feathered Thorn	1923	18	Light Arches	2322	36
Figure of Eight	2020	23	Light Emerald	1961	21
Figure of Eighty	1654	7	Lime Hawk-moth	1979	21
Flame	2098	25	Lime-speck Pug	1825	14
Flame Carpet	1722	9	Ling Pug	1831	14
Flame Shoulder	2102	25	Lunar Hornet Moth	371	6
Flounced Rustic	2353	37	Lunar Marbled Brown	2015	23
Foxglove Pug	1817	13	Lunar Underwing	2270	33
Freyer's Pug	1827	14	Lychnis	2173	29
Frosted Orange	2364	38	Magpie	1884	17
Garden Carpet	1728	10	Map-winged Swift	18	6
Garden Dart	2082	25	Marbled Beauty	2293	34
Garden Tiger	2057	24	Marbled Coronet	2171	29
Gem	1720	9	Marbled Minor	2337	36
Ghost Moth	14	6	March Moth	1663	8
Gold Spangle	2444	41	May Highflyer	1778	12
Gold Spot	2439	40	Middle-barred Minor	2340	37
Golden Plusia	2437	40	Miller	2280	34
Golden-rod Pug	1851	15	Mother Shipton	2462	41
Gothic	2136	27	Mottled Beauty	1941	20
Grass Rivulet	1807	13	Mottled Pug	1819	14
Green Carpet	1776	12	Mottled Rustic	2387	39
Green Pug	1860	16	Mottled Umber	1935	19
Green Silver-lines	2422	40	Mouse Moth	2299	35
Green-brindled Crescent	2245	32	Mullein Wave	1689	8
Grey Arches	2150	28	Muslin Moth	2063	24
Grey Birch	1951	20	Narrow-bor/ Five-spot Burnet	171	6
Grey Chi	2254	32	Narrow-winged Pug	1846	15
Grey Dagger	2284	34	Netted Pug	1823	14
Grey Pine Carpet	1768	12	November Moth	1795	12
Grey Pug	1837	14	Nutmeg	2145	28
Heart and Dart	2089	25	Oak Beauty	1930	19
Heath Rustic	2135	27	Oak Hook-tip	1646	7
Hebrew Character	2190	30	Oak Nycteoline	2423	40
Herald	2469	41	Oak-tree Pug	1853	15
Humming-bird Hawk-moth	1984	21	Oblique Carpet	1719	9
Ingrailed Clay	2120	26	Obscure Wainscot	2204	31
Iron Prominent	2000	22	Ochreous Pug	1844	15
July Highflyer	1777	12	Old Lady	2300	35
Juniper Carpet	1771	12	Olive	2312	35
Juniper Pug	1854	15	Orange Sallow	2271	33
Knot Grass	2289	34	Orange Swift	15	6
Larch Pug	1856	16	Orange underwing	1661	8
Large Emerald	1666	8	Pale Brindled Beauty	1926	19
Large Wainscot	2375	38	Pale Mottled Willow	2389	39
Large Yellow Underwing	2107	25	Pale Pinion	2236	31
Latticed Heath	1894	17	Pale Tussock	2028	23
Least Black Arches	2078	25	Pale-shouldered Brocade	2158	28
Least Yellow Underwing	2112	26	Peach Blossom	1652	7
Lempke's Gold Spot	2440	40	Pearly Underwing	2119	26

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Pebble Prominent	2003	22	Single-dotted Wave	1708	9
Peppered Moth	1931	19	Six-spot Burnet	169	6
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Pine Beauty	2179	29	Slender Brindle	2335	36
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Pink-barred Sallow	2273	33	Small Angle Shades	2305	35
Plain Golden Y	2443	40	Small Clouded Brindle	2331	36
Plain Pug	1842	15	Small Dotted Buff	2345	37
Poplar Grey	2278	34	Small Dusty Wave	1707	9
Poplar Hawk-moth	1981	21	Small Elephant Hawk-moth	1992	22
Powdered Quaker	2186	30	Small Fan-foot	2492	42
Purple Bar	1752	10	Small Fan-footed Wave	1702	9
Purple Clay	2122	27	Small Mottled Willow	2385	39
Purple Thorn	1919	18	Small Phoenix	1759	11
Puss Moth	1995	22	Small Quaker	2182	29
Red Chestnut	2139	27	Small Ranunculus	2165	29
Red Underwing	2452	41	Small Rivulet	1803	13
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Red-line Quaker	2263	33	Small Square-spot	2123	27
Riband Wave	1713	9	Small Wainscot	2350	37
Rivulet	1802	13	Small Yellow Wave	1876	16
Rosy Minor	2342	37	Smoky Wainscot	2198	30
Rosy Rustic	2361	38	Snout	2477	41
Round-winged Muslin	2035	23	Southern Wainscot	2197	30
Ruby Tiger	2064	24	Spectacle	2450	41
Rufous Minor	2338	36	Spinach	1757	11
Rustic	2382	39	Spring Usher	1932	19
Rustic Shoulder-knot	2334	36	Spruce Carpet	1769	12
Sallow	2274	34	Square-spot Rustic	2134	27
Sallow Kitten	1997	22	Straw Dot	2474	41
Saltern Ear	2358	38	Straw Underwing	2303	35
Sandy Carpet	1808	13	Streak	1864	16
Satellite	2256	32	Striped Twin-spot Carpet	1753	55
Satin Beauty	1940	20	Svensson's Copper U/wing	2298	34
Scallop Shell	1789	12	Swallow Prominent	2007	22
Scalloped Hazel	1920	18	Swallow-tailed Moth	1922	18
Scalloped Oak	1921	18	Tawny Marbled Minor	2339	37
Scarce Silver-lines	2421	39	Tawny Pinion	2235	31
Scarce Umber	1933	19	Tawny Shears / Pod Lover	2167	29
Scorched Wing	1904	17	Tawny Speckled Pug	1838	15
September Thorn	1915	18	Tawny-barred Angle	1893	17
Seraphim	1879	16	Toadflax Pug	1816	13
Setaceous Hebrew Character	2126	27	Treble Lines	2380	38
Shaded Broad-bar	1732	10	Treble-bar	1867	16
Shark	2216	31	True Lover's Knot	2118	26
Shears	2147	28	Turnip Moth	2087	25
Short-cloaked Moth	2077	24	Twin-spotted Quaker	2189	30
Shoulder Stripe	1746	10	Uncertain	2381	39
Shoulder-striped Wainscot	2205	31	Vapourer	2026	23
Shuttle Shaped Dart	2092	25	Vestal	1716	9
Silky Wainscot	2391	39	V-Pug	1858	16
Silver Hook	2412	39	White Ermine	2060	24
Silver Y	2441	40	White Satin Moth	2031	23

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Grayling	1621	45	Small Copper	1561	44
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Holly Blue	1580	44	Small Tortoiseshell	1593	45
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Common Hawker	47		

14. CONTACT ADDRESS

Anyone reading this booklet who has other records of macromoths, butterflies and dragonflies for the St Helens area can contact or send me copies of there lists to: - R Banks, 126 Pennine Drive, Parr, St Helens, Merseyside, WA9 2BN. Information required include site/location of species, recorders name and full date where known. New records will be acknowledged in any revised editions of this booklet.

15. NOTES

16.

LIST OF MOTH SPECIES REMOVED FROM ST HELENS LIST

The following records of moth species have been removed from the St Helens list, as they are no longer regarded as safe.

BFNO	170	
Species	Five-spot Burnet (1)	<i>Zygaena trifolii</i> Esp. Ssp. <i>Decreta</i> Verity.
Status	Vagrant, rare	
Records	Prescot Road, TF 1984 no date. It is not known if this record is of this species or if it is that of the Narrow-bordered Five-spot Burnet, which is fairly common in our area. This species has become quite rare, even in its known locations. This record is regarded as unsafe.	
Flight time	July to early August	
Foodplant	Birds foot trefoil	
BFNO	1753	
Species	Striped Twin-spot Carpet (1)	<i>Nebula salicata latentaria</i> Curt.
Status	Vagrant, rare	
Records	Town Centre, DO 15/5/98. This record is regarded as unsafe.	
Flight time	Mid-May to mid-July	
Foodplant	Various bedstraws.	
BFNO	1673	
Species	Small Emerald (1)	<i>Hemistola chrysoprasaria</i> Esp.
Status	Vagrant, rare	
Records	Eccleston, TF 16/6/90. this record is no longer regarded as safe	
Flight time	Late June to early August	
Foodplant	Traveller's-joy.	
BFNO	1693	
Species	Cream Wave (4)	<i>Scopula floslactata</i> Haw.
Status	Vagrant, rare	
Records	Red Brow Wood, TF 6/7/84 Colliery Wood, TF 10/8/86 Prescot Road, KH 1984 no date Siding Lane, LWT 1984 no date. These records are no longer regarded as safe.	
Flight time	May, June	
Foodplant	In captivity on dandelion, knotgrass and dock.	
BFNO	1694	
Species	Smoky Wave (1)	<i>Scopula ternata</i> Schr.
Status	Vagrant, rare	
Records	Prescot Road, KH 1984 no date. This record is no longer regarded as safe.	
Flight time	June, July	
Foodplant	Heather, bilberry.	
BFNO	1733	
Species	Lead Belle (1)	<i>Scotopteryx mucronata</i> Scop.
Status	Vagrant, rare	
Records	Siding Lane, TF 26/7/91. This record is no longer regarded as safe.	
Flight time	Mid-May to mid-June	
Foodplant	Gorse and broom.	
BFNO	1781	
Species	Small Waved Umber? Uncertain record.	<i>Horisme vitabata</i> D&S.
Status	Vagrant, rare	
Records	Siding Lane, DA, DO 24/7/92. This species is normally found in southern England, East Anglia and parts of South Wales. This record is no longer regarded as safe.	
Flight time	1 st brood May, June 2 nd brood August	
Foodplant	Traveller's-joy.	
BFNO	1796	
Species	Pale November Moth (1) ? visual record only.	<i>Epirrita christyi</i> Allen.
Status	Vagrant, rare	
Records	Parr, RB 23/10/96. This record is no longer regarded as safe.	
Flight time	Late September to early November	
Foodplant	Maple, blackthorn, oak, hawthorn, beech, elm, hazel and other deciduous trees.	
BFNO	1797	
Species	Autumnal Moth (1) ? visual record only.	<i>Epirrita autumnata</i> Borkh.
Status	Vagrant, rare	
Records	Marshalls X, CW 7/10/96. This record is no longer regarded as safe.	
Flight time	September, October	
Foodplant	Birch, alder.	

BFNO	1826	
Species	Triple-spotted Pug (2)	<i>Eupithecia trisignaria</i> H-S.
Status	Vagrant, rare	
Records	Siding Lane, TF 26/7/91 Haydock, G&DA 18/6/01 These records are no longer regarded as safe.	
Flight time	June, July	
Foodplant	Seeds of wild angelica and hogweed.	
BFNO	1833	
Species	Bleached Pug (28)	<i>Eupithecia expallidata</i> Doubl.
Status	Vagrant, scarce	
Records	Parr, RB 1/7/98 15/7/98 19/7/98 21/7/98 (2) 22/7/98 (2) 25/7/98 (2) 28/7/98 18/6/99 1/8/99 21/8/99 21/8/00 19/8/02 27/8/02 8/8/03 Town Centre, DO 10/7/98 24/7/98 (2) 28/7/98 9/8/98 11/8/98 3/9/98 20/6/02 22/8/04 Haydock, G&DA 2/8/01 Eccleston Park, ME 19/8/02	
	These records are no longer regarded as safe.	
Flight time	July, August	
Foodplant	Goldenrod.	
BFNO	1843	
Species	Thyme Pug (1)	<i>Eupithecia distinctaria</i> H-S.
Status	Vagrant, rare	
Records	Parr, RB 28/6/97. This record is no longer regarded as safe.	
Flight time	June, July	
Foodplant	Flowers of thyme.	
BFNO	1849 (New)	
Species	Ash Pug (2)	<i>Eupithecia fraxinata</i> Crewe.
Status	Vagrant, rare	
Records	Eccleston Park, ME 26/5/01 16/5/02. These records are no longer regarded as safe.	
Flight time	1 st brood late May to mid-June 2 nd brood August	
Foodplant	Ash.	
BFNO	1940	
Species	Satin Beauty (8)	<i>Deileptenia ribeata</i> Clerck.
Status	Vagrant, rare	
Records	Marshalls X, CW 25/7/96 30/7/96 Siding Lane, CW, DO, RB 3/8/96 (2) Coach Road, CW 1/8/97 (4). These records are no longer regarded as safe.	
Flight time	Late June to mid- August	
Foodplant	Yew, Douglas fir, spruce, pine, oak, birch.	
BFNO	1949	
Species	Square-spot (1)	<i>Paradarisa consonaria</i> Hubn.
Status	Vagrant, rare	
Records	Eccleston, TF 25/8/84. This record is no longer regarded as safe.	
Flight time	Late April to early June	
Foodplant	Oak, birch, pine, yew, beech and probably larch and other trees.	
BFNO	2088	
Species	Heart and Club (1)	<i>Agrotis clavis</i> Hufn.
Status	Vagrant, rare	
Records	Marshalls X, CW 22/6/97. This record is no longer regarded as safe.	
Flight time	Late June, July	
Foodplant	Leaves and later the roots of dock, clover, knotgrass and many other herbaceous plants.	
BFNO	2157	
Species	Light Brocade (1)	<i>Lacanobia w-latinum</i> Hufn.
Status	Vagrant, rare	
Records	Marshalls X, CW 10/6/97. This record is no longer regarded as safe.	
Flight time	Mid-May to early July	
Foodplant	Wide variety of plants, including broom and dyers greenweed.	
BFNO	2201	
Species	Shore Wainscot (1)	<i>Mythimna litoralis</i> Curt.
Status	Vagrant, rare	
Records	Rainhill Stoops area, LP 25/6/1905. Only record of this coastal species. This record is no longer regarded as safe.	
Flight time	Late June to August	
Foodplant	Marram	
BFNO	2333	
Species	Large Nutmeg (1)	<i>Apamea anceps</i> D&S.
Status	Vagrant, rare	
Records	Town Centre, DO 18/5/97. This record is no longer regarded as safe.	
Flight time	Early June to mid-July	
Foodplant	First on flowers and seeds and then leaves of grasses.	

**17. MOH SPECIES THAT HAVE BEEN RECORDED IN ST HELENS WHICH REQUIRE
CONFIRMATION OF IDENTIFICATION BY COUNTY RECORDED**

Five-spot Burnet
Striped Twin-spot Carpet
Small Emerald
Cream Wave
Smoky Wave
Lead Belle
Dark Marbled Carpet
Small Waved Umber
November Moth
Pale November Moth
Autumnal Moth
Triple-spotted Pug
Bleached Pug
Thyme Pug
Ash Pug
Larch Pug
Dwarf Pug
Satin Beauty
Square Spot
Bedstraw Hawk-moth
Buff Footman
Garden Dart
Heart and Club
Light Brocade
Southern Wainscot
Shore Wainscot
Deep-brown Dart
Northern Deep-brown Dart
Barred Sallow
Grey Dagger
Dark Dagger
Copper Underwing
Svensson's Copper Underwing
Large Nutmeg
Marbled Minor
Rufous Minor
Tawny Marbled Minor
Common Rustic
Lesser Common Rustic
Ear Moth
Saltern Ear
Large Ear
Criman Ear
Lempke's Gold Spot
Pinion Streaked Snout

Moth species highlighted in red are no longer on the St Helens list.

Any species with ten records or less, need confirmation of identity.

Any other species caught that is not on the St Helens list, needs confirmation of identity before it can be excepted.