

THE IMMIGRATION OF LEPIDOPTERA TO THE BRITISH ISLES IN 1991

¹BERNARD SKINNER AND ²MARK PARSONS

¹5 Rawlins Close, South Croydon, Surrey CR2 8JS.

²Department of Entomology, The Natural History Museum, Cromwell Road, London SW7 5BD.

WHEN COMPARED with the previous year and, with hindsight, the following one, 1991 was generally poor for migrants with some species such as the Clouded Yellow *Colias croceus* (Geoffroy) qualifying for "scarce immigrant" status. Even the regular and not uncommon species which include the Red Admiral *Vanessa atalanta* (Linnaeus), Painted Lady *Cynthia cardui* (Linnaeus) and Humming-bird Hawkmoth *Macroglossum stellatarum* (Linnaeus) remained in below average numbers throughout the year. The Silver Y *Autographa gamma* (Linnaeus) fared better with several large influxes during August, including an eyewitness account of this and other species arriving on the Isle of Wight (Colenutt, 1992).

Two of our larger species of migrant hawkmoths proved to be exceptions to the general rule with over 500 examples of the Convolvulus Hawkmoth *Agrius convolvuli* (Linnaeus) reported during September and October and over 60 reports, either as larvae, pupae or adults, of the Death's-head Hawkmoth *Acherontia atropos* (Linnaeus) between August and November.

Several of the very rare visitors are worthy of comment. The two examples of the pyralid *Psammotis pulveralis* (Hübner) doubled the number of recent records (south-east Kent in 1989 and 1990) of this species which was last noted at the beginning of this century. The Dried Currant Moth *Ephestia figulilella* Gregson is normally a warehouse species associated with dried fruit, cereal and meal, however, its appearance on the beach at Dungeness, East Kent (VC15), at the same time as other migrant species suggests primary immigration. The discovery of pupae and freshly emerged adults of Berger's Clouded Yellow *Colias alfacariensis* Ribbe on Portland, Dorset (VC9), in September is believed to be the first authentic instance of breeding in this country.

Nineteen ninety-one witnessed the fourth and fifth British records of the Dusky Hook-tip *Drepana curvatula* (Borkhausen), these on consecutive days; the seventh to the tenth records of the Marbled Grey *Cryphia raptricula* (Denis & Schiffermüller); the ninth record of *Hymenia recurvalis* (Fabricius) and the fifth example of the Great Dart *Agrotis crassa* (Hübner) this century. The two records of the Tree-lichen Beauty *Cryphia algae* (Fabricius) from Herm and Guernsey add to the previous example in 1990 from the Channel Islands (VC113). The single captures from South Hampshire (VC11) and West Sussex (VC13) were the first for the British mainland since the nineteenth century. These represent the second to the fifth records for the British Isles this century.

The record of the Red-headed Chestnut *Conistra erythrocephala* (Denis & Schifferrmüller) was the first in Britain since 1945; the example of the Orache *Trachea atriplicis* (Linnaeus) is only the eighth since 1915; and that of the Blair's Wainscot *Sedina buettneri* (Hering) is the fourth since 1952, when it was last recorded as a resident in Britain. Finally, five examples of the Spanish Carpet *Scotopteryx peribolata* (Hübner), previously only recorded on the mainland on four occasions, at the same Dorset (VC9) site as one in 1990 could suggest a possible colonisation.

The species listed in the annexes are laid out following Bradley & Fletcher (1979), with amendments where necessary. The abbreviations listed below are used in Annexe 1.

Abbreviations

E	Exotic introduction/escape
I	Primary immigrant
In	Introduction
O	Overlooked resident
R	Resident
R(i)	Recent resident/Invader
R(t)	Temporary resident
RIS	Rothamsted Insect Survey
V	Vagrant/wanderer

ANNEXE 1: RECORDS OF "SCARCER" SPECIES

YPONOMEUTIDAE

Yponomeuta evonymella (Linnaeus) [I?]

SOUTH HAMPSHIRE (11): Southsea, 31.7 (JRL); EAST NORFOLK (27): Brundall, 27.7 - 2; 29.7 - 3; 30.7 - 13; 31.7 - 22; 4.8; 12.8 (APF); SOUTH-EAST YORKSHIRE (61): Spurn Head, 3.8; 6.8 (RIS trap per BS); ORKNEY ISLANDS (111): Orphir, 28.7 (RIL).

Y. rorrella (Hübner) [I?/V?]

SOUTH HAMPSHIRE (11): Southsea, 29.7 (JRL).

ETHMIIDAE

Ethmia bipunctella (Fabricius) [I?/V?]

SOUTH DEVON (3): Colyton, 27.5 (Henwood 1992); BERKSHIRE (22): Uffington, 13.9 (E.W. Classey per Agassiz *et al* (1993)).

MOMPHIDAE

Batrachedra parvulipunctella (Chrétien) [I?/O?]

Note: 1st British Record. Possibly resident as species of the genus *Batrachedra*, are not recognised migrants.

WEST CORNWALL (1): Cadgwith, 18.8 (Heckford 1994b).

COCHYLIDAE***Cochylis molliculana* (Zeller) [I?/V?]**

Note: 1st British Record. This species is now established in Britain.

DORSET (9): Portland, 24.6 (Heckford 1994a).

PYRALIDAE***Evergestis extimalis* (Scopoli) [I?/V?]**

Note: Records outside Thames estuary and Breckland only.

ISLE OF WIGHT (10): Freshwater, 3.9 (Knill-Jones 1992c); EAST NORFOLK (27): Westend, 12.8; 13.8 (GEH); SOUTH-EAST YORKSHIRE (61): Spurn Head, 8.8 (RIS trap per BS).

***Margaritia sticticalis* (Linnaeus) [I]**

WEST CORNWALL (1): Maenporth, 31.7 (RMc, also reported in Agassiz *et al* (1993)).

***Sitochroa palealis* (Denis & Schiffermüller) [I?/R?/R(t)?]**

SOUTH HAMPSHIRE (11): Chilling, Warsash, 4-8.10 - 8 (PMP); WEST SUSSEX (13): Thorney Island, 26.7 - 4 (BC); EAST SUFFOLK (25): Thorpeness, 31.7 (BFS); SOUTH-EAST YORKSHIRE (61): Spurn Head, 3.8 (RIS trap per BS).

***Ostrinia nubilalis* (Hübner) [I?/R?]**

Note: Records outside Thames estuary only.

DORSET (9): Portland Bird Observatory, 17.7 (MC); ISLE OF WIGHT (10): Chale Green, 31.7; 2.8; 4.8; 8.8; 14.8; 17.8; 21.8)SC per SAKJ); EAST SUSSEX (14): Peacehaven, 26.7; 29.7 (CRP); SOUTH-EAST YORKSHIRE (61): Spurn Head, 6.7 (BS, also reported in Agassiz *et al* (1993)) - First Yorkshire record.

***Psammotis pulveralis* (Hübner) [I]**

DORSET (9): Portland Bird Observatory, 1.8 (MC, also reported in Agassiz *et al* (1993)); EAST SUSSEX (14): Peacehaven, 22.8 (CRP per BFS, also reported in Agassiz *et al* (1993)).

***Udea fulvalis* (Hübner) [I?/R(t)]**

DORSET (9): Durlleston, 30.7; 2.9 (PD, also reported in Agassiz *et al* (1993)); Highcliffe, Christchurch, 20.7; 15.8; 19.8 - 2 (EHW, also reported in Wild (1992) and Agassiz *et al* (1993)); Studland, 1.9 (BFS, also reported in Agassiz *et al* (1993)); SOUTH HAMPSHIRE (11): Lymington, 21.8 (AJP per BFS, also reported in Agassiz *et al* (1993)).

***Maruca vitrata* (Fabricius) (=testulalis (Geyer)) [I?/E?]**

DORSET (9): Swanage, 31.8 (S. Church per BFS, also reported in Agassiz *et al* (1993)).

***Hymenia recurvalis* (Fabricius) [I]**

DORSET (9): Portland, 14.10 (MFH, also reported in Agassiz *et al* (1993)).

***Palpita unionalis* (Hübner) [I]**

EAST CORNWALL (2): St. Austell Bay, 14.9 (WKG); SOUTH WILTSHIRE (8): Dinton, 10.10 (SMP); DORSET (9): Durlleston, 10.10; 12.10 - 2 (DB); Ferndown, 4.9 (RRC); St. Albans Head, 9.10 (PD); Studland, 11.10; 13.10 (DB); 13.10 (P. Davey); ISLE OF WIGHT (10): Freshwater, 13.10 (Knill-Jones 1992c); SOUTH HAMPSHIRE (11): Burleston, 11.10 (GEH); Winchester, 12.10 (DHS); WEST SUSSEX (13): Walberton, 13.10 (JTR per CRP); EAST KENT (15): Dungeness, 31.7; 15.10 (SPC);

Greatstone, 7.8; 26.8; 15.10 (SPC); New Romney, 13.10 (KR per SPC); Lydd, 22.8 (KR per SPC); SOUTH ESSEX (18): Bradwell-on-Sea, 15.10; 16.10; 1.11 (SD); 11.10; as.10 - 4; 14.10 (AJD); NORTH LINCOLNSHIRE (54): Linwood, 11.10 (R. Lorand per RJ); Muckton, 13.10 (G. Wright per RJ).

Summary: (2): 1; (8): 1; (9): 8; (10): 1; (11): 2; (13): 1; (15): 7; (18): 9; (54): 2.

***Acrobasis tumidana* (Denis & Schiffermüller) [I]**

DORSET (9): Studland, 3.9 (BFS in Skinner (1995), also reported in Agassiz *et al* (1993)); EAST KENT (15): Dungeness, 1.8 (BFS in Skinner (1995) also reported in Agassiz *et al* (1993)); Greatstone, 27.8 (RET in Skinner (1995) also reported in Agassiz *et al* (1993)).

***Dioryctria abietella* (Denis & Schiffermüller) [I?/V?]**

DORSET (9): Portland Bird Observatory, 11.7 (MC, also reported in Agassiz *et al* (1993)); EAST KENT (15): Dungeness, 6.7; 31.7 (SPC, also reported in Agassiz *et al* (1993)); HERTFORDSHIRE (20): Harpenden, 14.7 (Riley & Townsend 1992); EAST SUFFOLK (25): Thorpeness, 31.7 (BFS, also reported in Agassiz *et al* (1993)); NORTH LINCOLNSHIRE (54): Northcotes, 21.7 (R. Lorand per RJ, also reported in Agassiz *et al* (1993)).

***Ephestia figuilella* Gregson [I?]**

EAST KENT (15): Dungeness, 9.10 (SPC, also reported in Clancy (1994) and Agassiz *et al* (1993)).

PAPILIONIDAE

The Swallowtail *Papilio machaon* Linnaeus (? *bigeneratus* Verity) [In/I?]

Note: Subspecies not stated for the following records.

NORTH ESSEX (19): Beacon Hill, Harwich, 15.9; Bramble Island, Great Oakley, 29.7; The Naze, Walton, 14.7 (per JPB). All North Essex records from Hamford Water area may be the result of captive stock reported released in the area (BG² per JPB); Harwich area 1-4.7, ova on fennel in allotment, adults. 8. Probably ex Frinton released stock (BG²); SOUTH-EAST YORKSHIRE (61): Spurn Head, 21.8 (R. Bolton, Miss J. Davidson per BS); CHANNEL ISLANDS (113): Icart, Guernsey, 26.5 - 1 (Austin 1991).

PIERIDAE

Pale Clouded Yellow *Colias hyale* (Linnaeus) [I]

SOUTH ESSEX (18): Bradwell, 30.9 - 1 male; 4.10 - 1 male (AJD).

Berger's Clouded Yellow *C. alfacariensis* Ribbe [I]

SOUTH DEVON (3): Honiton, 18.8 - 2 (Wedd 1992); DORSET (9): Portland, 10 males, 5 females, 2 pupae and 2 empty pupae. A further 16 examples found by BFS and AJP & CTP. Total of 22 males and 9 females seen (Harmer (1992); see also Pickles & Pickles (1992) and Skinner (1992)).

**Berger's Clouded Yellow *C. alfacariensis* Ribbe
or Pale Clouded Yellow *C. hyale* (Linnaeus) [I]**

MIDDLESEX (21): Feltham Marshalling Yards, 7.7 - 1 male (Cribb 1991).

Clouded Yellow *C. croceus* (Geoffroy) [I]

EAST CORNWALL (2): Rame Head, 5.9 - 1 male (VT); St. Austell, 3.10 (R. Lane per VT); Turnchapel, 25.9 (ST per VT); SOUTH DEVON (3): Bolt Head, 24.8 (RB per

VY); East Prawle, late summer - approx. 20 (Catt 1992); Paignton, 18.7 (DB²); Scoble, 3.9 (DB²); Strete, 9.9 (DB²); Torcross, 13.9 (RMc); Wembury Point 9.9 (VT); SOUTH WILTSHIRE (8): Downton, 23.9 (I. Irwin per SMP); Pewsey Down, 28.6 - 1 male (S. Coombes per VT); DORSET (9): Lyme Regis undercliff, 29.9 - 1 female (APF); Portland Bird Observatory, 7.9 - 8.10 - 10 (MC); WEST SUSSEX (13): Rustington, 27.9 - 1 dead (DD); Thorney Island, 7.9; 25.9 (C.B. Collins per CRP); EAST SUSSEX (14): Beachy Head, 5.9 - 2 (DD); 8.9; 19.9 (P. Wilson per CRP); 13.10 - 2 (S. Hore per CRP); Birling Gap, 14.9 (DD); Burgess Hill, 17.9 (B. Fordham per CRP); Castle Hill, Lewes, 8.9 - 1 fresh male (PMP); Cuckmore Haven, near Eastbourne, 13.10 (DD); Eastbourne, 11.9 (H. Streeter per CRP); Mount Caburn, Lewes, 30.8 - 3 (DD); Seaford, 5.9; 8.9 - 6 (P. James per CRP); Seven Sisters, 3.9 ("Living World" per CRP); Uckfield, 7.9 (B. Fordham per CRP); Willingdon, 30.8 (DD); EAST KENT (15): Dungeness, 6.10 (W. Champkin per SPC); St. Mary's Bay, 12.9 (A. Rouse per SPC); SOUTH ESSEX (18): Bradwell-on-Sea, 9.9 - 1 female; 10.9 - 1 male; 13.9; 15.9 (AJD); NORTH ESSEX (19): Walton, 10.9 (C. Gibson per BG²); STAFFORDSHIRE (39): Moddershall, 7.9 (Koryszko 1992); SOUTH-EAST YORKSHIRE (61): Aldborough, 7.7 (M.C. & H.M. Frost); RENFREWSHIRE (76): Laigh Park, Paisley, 14.10 (C. Balling per Hancock (1993)); CHANNEL ISLANDS (113): Grandes Rocques, Guernsey, 8.9 (Austin 1991). Summary: (2): 3; (3): 7+; (8): 2; (9): 11; (13): 3; (14): 24; (15): 2; (18): 4; (19): 1; (39): 1; (61): 1; (113): 1.

Bath White *Pontia daplidice* (Linnaeus) [I]

SOUTH DEVON (3): East Prawle, 4.8 (Catt 1992).

LYCAENIDAE

Long-tailed Blue *Lampides boeticus* (Linnaeus) [I]

SOUTH DEVON (3): East Prawle, 4.8 (Catt 1992).

NYMPHALIDAE

Large Tortoiseshell *Nymphalis polychloros* (Linnaeus) [I]

EAST KENT (15): Faversham, 11.10 (M.R. Hodges per BFS).

Queen of Spain Fritillary *Argynnis lathonia* (Linnaeus) [I]

SOUTH DEVON (3): East Prawle, 21.9 - 1 female (Catt 1992); EAST NORFOLK (27): Gorleston-on-Sea, 16.8 - 1 male (Bales 1991); CHANNEL ISLANDS (113): Jersey, undated and no further locality given (Austin 1992); Sark, 24.9 - 2 (M. Long per Austin 1992)).

DREPANIDAE

Dusky Hook-tip *Drepana curvatula* (Borkhausen) [I]

EAST KENT (15): Greatstone, 21.8 - 1 female (BB per SPC); SOUTH HAMPSHIRE (11): Totton, 22.8 (M. Jeffes per BG).

GEOMETRIDAE

Blair's Mocha *Cyclophora pupillaria* (Hübner) [I]

DORSET (9): Studland 12.10 (DB); CHANNEL ISLANDS (113): Forest, Guernsey, 1.9 (TNDP) per Austin (1991)).

Least Carpet *Idaea vulpinaria atosignaria* Lempke [I?/V?]

Note: Records outside south-east England only.

DORSET (9): Highcliffe, 29.7 (AJP, see also Pickles *et al* (1992)); ISLE OF WIGHT

(10): Binstead, between 28.7 and 26.8 - 2 (B. Warne, Knill-Jones (1992b)); Chale Green, between 28.7 and 26.8 - 4 (SC per Knill-Jones (1992b)); Freshwater, between 28.7 and 26.8 - 3 (SAKJ per Knill-Jones (1992b)); Niton, between 28.7 and 26.8 - 3 (D. Wooldridge per Knill-Jones (1992b)); WARWICKSHIRE (38): Hillmarton, 1.8 (Dr D. Porter per Brown (1992a)); Charlecote, 2.8 (Brown 1992a); CHANNEL ISLANDS (113): Guernsey, 3.8 - 3.9, recorded on 4 nights (Austin 1992).

The Vestal *Rhodometra sacraria* (Linnaeus) [I]

DORSET (9): Portland Bird Observatory, 9.10 (MC); EAST KENT (15): Densole, 29.8 (A. Rouse per SPC); SURREY (17): Buckland, Reigate, 4.9 (CH); SOUTH ESSEX: Bradwell-on-Sea, 24.8 - 1 female (AJD); NORTH ESSEX (19): St. Osyth, 21.9 (RWA per BG²); WEST LANCASHIRE (60): Birk Bank, Queramore, 9.9 (Mrs M.J. Dempsey); MID CORK (H4): Coolmore, 1.9 (KGMB).

The Gem *Orthonama obstipata* (Fabricius) [I]

EAST KENT (15): Dungeness, 29.10 - 1 female (RMc per BFS); SOUTH ESSEX (18): Bradwell-on-Sea, 12.10 - 1 male; 30.10 - 1 male (SD); NORTH ESSEX (19): St. Osyth, 9.10; 13.10 (RWA per BG²); WARWICKSHIRE (38): Tysoe, 18.7 (RCK per DB); SOUTH-EAST YORKSHIRE (61): Filey, 12.10 - 1 female (PQW); Flamborough, undated - 2 male and 1 female (PQW); Muston, nr. Filey, 13.10 - 1 male (PQW); ORKNEY ISLANDS (111): North Ronaldsay Lighthouse, 14.10 - 2 (M. Gray per IRL).

Spanish Carpet *Scotopteryx peribolata* (Hübner)

Note: Does not include Channel Islands records where it is resident.

DORSET (9): Studland, 3.9 - 2 (RMc & CCP); 6.9 - 3 (BFS).

Cypress Carpet *Thera cupressata* Geyer [I?/R(i)]

Note: Channel Islands records probably represent resident examples. It is possible that the record from the Isle of Wight was of resident example.

ISLE OF WIGHT (10): Chale Green, 28.11 (SC per SAKJ); CHANNEL ISLANDS (113): St. John, Guernsey, 18.5 to 20.7 (6 nights); 16.10 - 4; 23.10; 28.10 - 3 (Austin 1991); Forest, Guernsey, 26.10 (TNDP per Austin (1991)).

Dusky Peacock *Semiothisa signaria* (Hübner) [I]

NORTH ESSEX (19): St. Osyth, 6.7 (RWA per BG²); EAST NORFOLK (27): Strumpshaw, 7.7 (A. Whitehouse, det. G. Haggett per DH).

SPHINGIDAE

Convolvulus Hawkmoth *Agrius convolvuli* (Linnaeus) [I]

Summary only: The vice-county number is given in brackets, followed by the number of individuals sighted in each vice-county. Where no numbers were given for an individual record, it was taken to be one. For some records the numbers given were approximate, therefore the totals given below are approximate and serve to give an indication of numbers recorded. This is followed by the monthly representation of the records. In a few cases it was impossible to assign a given record to an individual month. These records were ignored. As with the totals for the vice-counties, the monthly totals are approximate.

(1): 14+ (= 1 larva); (2): 28+; (3): 57; (6): 6; (8): 2; (9): 140; (10): 15; (11): 6; (13): 45; (14): 108 (+ 1 pupa); Sussex: 21; (15): 68+ (+ 3 larvae & 19 ova); (16): 1 larva; (17): 4;

(18): 11; (19): 13; (20): 1; (21): 2; (27): 3; (28): 3; (29): 1; (38): 2; (39): 1; (44): 1; (45): 1; (54): 7 (+ 7 larvae); (56): 2; (60): (several larvae); (61): 5 (+ 5 larvae); (62): 3 (+ 1 larva); (64): 2; (71): 3; Northumberland: 4 larvae; (111): 4+; (113): 8; (H3): 2; (H5): 3; (H11): 1; (H37): 2; (H38): 1; North Sea: Conoco Viking B Platform, 80 miles from Lincolnshire coast (J. Jaines per RJ).

July: 6 (1 larva); August: 4 (4 larvae); September: 394 (10 larvae, 16 ova); October: 180 (1 larva, 3 ova).

Earliest date: 8.7, Sheringham, East Norfolk (27).

Latest date: 26.10, Brighton, Sussex.

Death's-head Hawkmoth *Acherontia atropos* (Linnaeus) [I]

WEST CORNWALL (1): Mabe, 8.12 (FHNS); SOUTH DEVON (3): Prawle Point, 9.10 (P. Sanders per VT); SOUTH WILTSHIRE (8): Steeple Langford, 1.9 - 2 larvae found on *Solanum dulcamara* (N. Pollard per SMP); DORSET (9): Cranbourne Chase (possibly in VC8), 22.9 - 1 larva (JWF); Durlston, 9.10 (DB); Portland Bird Observatory, 16.10 (MC); ISLE OF WIGHT (10): Freshwater, 10.10 (by a pupil of West Wight Middle School per SAKJ); Merstone, 18.7 (J. Gloyn per SAKJ); NORTH HAMPSHIRE (12): Hook, .9 (K. Gobbett per AHD); Sherfield St. John, .9 (K. Gobbett per AHD); HAMPSHIRE: no locality or date - 2 larvae (Andrews 1992); WEST SUSSEX (13): Southwick, 28.9 (DD); EAST SUSSEX (14): Newhaven, .10 (S. Warren per CRP); Ninfield, 5.9, full-grown larva (green form) (Mr McGinnis per CRP); Saltdean, 9.10 (L. Fowler per CP); EAST KENT (15): Greatstone, .8 - found dead on roadside (per SPC); KENT: no locality or date given - 3 found in beehives by a Kent beekeeper (J. Cissburn per AHD); SURREY (17): Selhurst (17): Selhurst, 5.9, full-grown larva (yellow form) (Mrs Clayton, CRP); NORTH ESSEX (19): Tiptree, 7.10 - 1 pupa (B. Watts per BG²); Debden Green, a number of pupae (RHM); HERTFORDSHIRE (20): Green Tye, 12.9 - 2 larvae (1 from pupil of a local primary school); 9/10.10 - 3 pupae (Wilson 1992); High Wych., pupa (R. Reed per CWP); Perry Green, .9 - 2 larvae (H. Ashwell per DEW); OXFORDSHIRE (23): Milton, 1.9 - 1 full-fed larva (per FHNS); BUCKINGHAMSHIRE (24): Waddesdon, nr. Aylesbury, 27.8 - 1 full-grown larva, a pupa found later (D.J. Spencer per GDB); Winslow, .9 - 17 pupae in potato field (per DB); EAST NORFOLK (27): Wramplingham, 22.9 (C. Smith); WEST NORFOLK (28): 13.8, larva on potato (P.R. Banham per DH); WARWICKSHIRE (38): Long Itchington, 23.11 - pupa dug up (Mr Grubb per DB); Wealford on Avon, 15.9 - 26.11 - 12 pupae (D. Beech per DB); SHROPSHIRE (40): Brown Moss, undated (Riley & Palmer 1994); SOUTH-WEST YORKSHIRE (63): Harthill, Rotherham, 19.9 - 1 larva on allotments (W.A. Ely per PQW), Kiveton Park, near Sheffield, .9 - 1 larva (per T. Nettleship (Gardiner 1991)).

Summary: (1): 1; (3): 1; (8): 2 larvae; (9): 2 (+ 1 larva); (10): 2; (12): 2; Hampshire: 2; larvae (13): 1; (14): 2 (+ 1 larva); (15): 1; Kent: 3; (17): 1 larva; (19): 2+ pupae; (20): 4 larvae and 4 pupae; (23): 1 larva; (24): 1 larva, 18 pupae; (27): 1; (28): 1 larva; (38): 13 pupae; (40): 1; (63): 2 larvae.

Humming-bird Hawkmoth *Macroglossum stellatarum* (Linnaeus) [I/R(t)?/R?]

Summary only: The vice-county number is given in brackets, followed by the number of individuals sighted in each vice-county. Where no numbers were given for an individual record, it was taken to be one. For some records the numbers given were approximate, therefore the totals given below are approximate and serve only to give an indication of numbers recorded. This is followed by the monthly representation of the records. In a few cases it was impossible to assign a given record to an individual month. These

records were ignored. As with the totals for the vice-counties, the monthly totals are approximate.

(1): 18; (2): 9; (3): 3; (6): 2; (8): 5; (9): 16; (10): 6; (11): 1; (13): 13; (14): 51; Sussex: 4; (15): 7 larvae; (17): 2; (18): 9; (19): 14; (20): 1; (21): 1; (25): 1; (26): 1; (27): 5; (28): 4; (38): 2; (53): 2; (54): 3; (56): 1; (61): 4; (64): 2; (69): 1; (71): 4; (113): 12; (H4): 2; (H33): 2; (H36): 1; (H37): 1; (H38): 1; (H39): 2.

March: 6; April: 7; May: 3; June: 29; July: 29; August: 19 (+7 larvae); September: 86; October: 49; November: 1; December: 1.

Earliest date: 4.3, Mount Arrive, Guernsey, Channel Islands (113).

Latest date: 3.12, Blandford, Dorset (9) - in a brewery workshop (Butt 1992).

Spurge Hawkmoth *Hyles euphorbiae* (Linnaeus) [I]

SOUTH DEVON (3): Newton Abbot, 17.6 (Pettit 1991).

Bedstraw Hawkmoth *H. gallii* (Rottemburg) [I]

ISLE OF WIGHT (10): Sandown Pier, 1.9 (M. Buckley per SAK-); WEST NORFOLK (28): Caston, 7.7 - 1 female (Haggett 1992); NORTH LINCOLNSHIRE (54): Flixborough, 29.6 - 1 female (laid 60 fertile ova) (RJ); Little Cawthorpe, 6.6 (J. Jaines per RJ); SOUTH LANCASHIRE (59): Sawley, 14.9 - larva (BLS); SOUTH-EAST YORKSHIRE (61): Easington, 13.9 - larva (M.-C. Frost); SHETLAND ISLANDS (112): Fair Isle Bird Observatory, 26.7 (in "Birdwatching" magazine per DD).

LYMANTRIIDAE

Brown-tail *Euproctis chrysorrhoea* (Linnaeus) [I?/V?/R?]

Note: Records outside known resident range only.

SOUTH WILTSHIRE (8): Blackmore Copse, 26.7 (SMP); Middleton Down, 11.5 - larval nest on *Crataegus* (SMP); HERTFORDSHIRE (20): Green Tye, 13.7; 28.7 (DEW); EAST NORFOLK (27): Winterton, 1.8, approx. 30 (DH & APF); WARWICKSHIRE (38): Shottery, Stratford upon Avon, 26.7 (R. Bliss per Brown (1992a)); SOUTH-EAST YORKSHIRE (61): Aike, Beverly, 1.8 (per PQW); Flamborough, 31.7 - 26 (PQW); Muston, 29.7; 30.7; 31.7 - 5; 1.8 - 2; 2.8 - 2; 3.8 (PQW); Spurn Head, 30.7 - 3; 31.7; 1.8 - 3; 2.8; 3.8 - 2 (BS); NORTH-EAST YORKSHIRE (62): Grosmont, 30.7 - 3; 31.7; 4.8; 5.8 (W. Norman per PQW); Wykeham, 31.7/1.8 (RIS trap, PQW); NORTHUMBERLAND: locality or date not given, 30 (JDP & AP); CHANNEL ISLANDS (113): L'Ancrese, Guernsey, 3.8 (Austin 1991).

Summary: (8): 1 (+ larval nest); (20): 2; (27): 30 approx.; (38): 1; (61): 48; (62): 7; Northumberland: 30; (113): 1.

Gypsy Moth *Lymantria dispar* (Linnaeus) [I]

ISLE OF WIGHT (10): Godshill, 28.8 (Cramp 1992); SOUTH HAMPSHIRE (11): Brockenhurst, 21.8 - 1 male (JEC); EAST SUSSEX (14): Crowborough, 21.8 (Simmons 1992); EAST KENT (15): Greatstone, 21.8 - 1 male, (RET per SPC); CHANNEL ISLANDS (113): Forest, Guernsey (TNDP per Austin (1991)); St. John (Austin 1991).

ARCTIIDAE

Dotted Footman *Pelosia muscerda* (Hufnagel) [I]

SOUTH WILTSHIRE (8): Dinton Wood (RAF Chilmark), 4.8 (J. Pitman & SMP); SOUTH ESSEX (18): Bradwell-on-Sea, 27.7 (DJW).

Jersey Tiger *Euplagia quadripunctaria* (Poda) [I?/V?]

Note: Records outside known resident range only.

DORSET (9): Durlston, 1.9 (per RP); 3.9 (BLS); Portland, 24.8 - ab. *lutescens* (DY); ISLE OF WIGHT (10): Tennyson Down, 11.9 - 1 male found dead on track (Knill-Jones 1992a); WEST SUSSEX (13): Walberton, 28.8 (JTR per CRP).

Scarlet Tiger *Callimorpha dominula* (Linnaeus) [In?]

EAST SUSSEX (14): South Highton, Newhaven, 14.6 (? release). Another 12 miles away in June (J. Stedman per CP).

NOLIDAE**Kent Black Arches *Meganola albula* (Denis & Schiffermüller) [I?/V?]**

BERKSHIRE (22): Fernham, 22.7 (Nash 1992); EAST NORFOLK (27): Norwich, 31.7 (DH); SOUTH-EAST YORKSHIRE (61): Spurn Head, 1.8 (BS); CHANNEL ISLANDS (113): L'Ancrese, Guernsey, 3.8 (Austin 1991).

NOCTUIDAE**Coast Dart *Euxoa cursoria* (Hufnagel) [I?/V?]**

EAST KENT (15): Reculver, 3.7 (M. Davies per TWH); SOUTH ESSEX (18): Bradwell-on-Sea, 27.7 (DJW).

Great Dart *Agrotis crassa* (Hübner) [I]

DORSET (9): Portland Bird Observatory, 2.8 (MC).

Great Borceade *Eurois occulta* (Linnaeus) [I]

EAST KENT (15): Densole, 30.7 - 1 female (A. Rouse per SPC); Port Regis, Thanet, 10.8 (TWH); WEST SUFFOLK (26): Lakenheath, 9.8 (BFS); EAST NORFOLK (27): Brundall, 8.8; 12.8 (APF); Wroxham, 8.8 (N. Bowman per DH); NORTH LINCOLNSHIRE (54): Little Cawthorpe, 29.8 (G. Wright per RJ); SOUTH-EAST YORKSHIRE (61): Bubwith, 29.7; 3.9 (G.B. Summers per PQW); BANFFSHIRE (94): Cornhill, 25.7 - 2; 29.7, plus another found dead, all of grey immigrant form (RL); ORKNEY ISLANDS (111): Orphir, 27.7-3.8 - 2, pale grey form (RIL); St. Ola, 27.7-3.8 - 4, pale grey form (S.V. Gauld per RIL).

White-point *Mythimna albipuncta* (Denis & Schiffermüller) [I/R(t)?]

Note: Possibly temporarily resident over part of the recorded range.

WEST CORNWALL (1): Lizard, 7.9; 8.9 (DB); EAST CORNWALL (2): St. Austell Bay, 1.9 (WGK); Woodford, nr. Bude, 21.7 (P. Fleming); DORSET (9): Abbotsbury, 22.9 (DB); Corfe Castle, 16.8; 28.8; 29.8; 1.9 - 2; 2.9 - 5; 3.9; 4.9; 10.9; 11.9 - 4; 12.9 - 2; 14.9 - 5; 15.9 (RB²); Durlston, 13.8; 2.9; 14.9 - 3 (PD); 12.10 (DB & MFH); Gaunts Common, 14.9 (PD); Portland, 15.10 (MFH); Portland Bird Observatory; 1.6; 1.8; 2.8; 26.8-22.9 - 10 (MC); Studland, 9.10 - 2; 13.10 (DB); Swanage, 17.6 (DEW); 12.10 (MFH); ISLE OF WIGHT (10): Chale Green, 2.7-26.8 - 15 (SC per SAKJ); Freshwater, 8.9; 12.9 (SAK-J); Porchfield, 11.7 (D. Wooldridge per SAKJ); SOUTH HAMPSHIRE (11): Brockenhurst, 31.5 - 1 male; 1.9 - 1 female (JEC); Chilling, Warsash, 16.6; 1.7; 2.9; 30.9; 14.9; 15.9 (PMP); Southsea, 22.8 (JRL); WEST SUSSEX (13): Church Norton, 10.10 (GEH); Hassocks, 24.9 (DD); Littlehampton, 16.9 (R.J.L. Kemp per CRP); Walberton, 22.6; 27.8; 30.8; 31.8; 1.9; 2.9; 3.9; 5.9 - 2; 14.9 (JTR per CRP); EAST SUSSEX (14): Crowborough, 24.9 (Simmons 1992); Peacehaven, 31.8 - 3; 1.9 (DB);

1.9; 21.9 (SPC); 13.9 (MFH); Greatstone, 27.8; 31.8; 2.9 (BBper SPC); 3.9 (RET per SPC); Lydd, 3.9 - 2; 4.9; 13.9 (KR per SPC); New Romney, 25.8; 1.9 (KR per SPC); SOUTH ESSEX (18): Bradwell-on-Sea, 26.6 (SD); 2.9 - 1 female; 3.9 - 1 male; 4.9 - 1 male; 5.9 - 1 male; 11.9 - 1 male (AJD); MIDDLESEX (21): Parliament Hill, 7.9 (RAS); WEST NORFOLK (28): Downham Market, 8.10 (MFH); CHANNEL ISLANDS (113): Guernsey, 9.6-7.10 - 14 records (Austin 1991).

Summary: (1): 2; (2): 2; (9): 52; (10): 18; (11): 9; (13): 13; (14): 7; (15): 18; (18): 6; (21): 1; (28): 1; (113): 14.

The Delicate *M. vitellina* (Hübner) [I/R(t)?]

Summary only: The vice-county number is given in brackets, followed by the number of individuals sighted in each vice-county. Where no numbers were given for an individual record, it was taken to be one. For some records the numbers given were approximate, therefore the totals given below are approximate and serve to give an indication of numbers recorded. This is followed by the monthly representation of the records. In a few cases it was impossible to assign a given record to an individual month. These records were ignored. As with the totals for the vice-counties, the monthly totals are approximate.

(1): 2; (8): 1; (9): 620+; (10): 39; (11): 9; (13): 32; (14): 10; (15): 13; (18): 8; (19): 2; (28): 1; (113): 53; (H3): 1.

June: 2; July: 1; August: 1; September: 21; October: 572; November: 1; December: 1.

Earliest date: 29.6, Portland Bird Observatory, Dorset (9).

Latest date: 1.12, Walberton, West Sussex (13).

L-album Wainscot *M. l-album* (Linnaeus) [I/?R?]

Note: Records outside Sussex to Cornwall only and not including Channel Islands.

EAST KENT (15): Greatstone, 11.10 (BB per SPC); 14.10 (SPC); Littlestone, 13.10 (KR per SPC); New Romney, 9.10 (KR per SPC).

White-speck *M. unipuncta* (Haworth) [I]

WEST CORNWALL (1): Coverack, 22.7 (A. Gardner per DB); St. Mary's, Isles of Scilly, 13-26.9 - 4 (RAS); DORSET (9): Corfe Castle, 11.9; 14.10 RB²; Durlleston, 10.10 (per RP); 12.10 (GAC); 26.11 (PD); Portland, 23.9 (MFH); Portland Bird Observatory, 3.10; 9.10; 10.10; 21.10; 1.11 (MC); St. Albans Head, 8.10; 9.10 - 3 (PD); Studland, 13.10 (DB); ISLE OF WIGHT (10): Freshwater, 28.11; 27.12 (SAKJ); Godshill, 28.11 (P.J. Cramp per SAKJ); WEST SUSSEX (13): Walberton, 29.11 (JTR per CRP); EAST KENT (15): Greatstone, 20.10 (RET per SPC); Lydd, 14.10 (KR per SPC); New Romney, 24.11 (KR, SPC); SOUTH ESSEX (18): Bradwell-on-Sea, 1.9 (AJD); CHANNEL ISLANDS (113): Forest, Guernsey, 21.9 (YNDP per Austin 1991).

Summary: (1): 5; (9): 16; (10): 3; (13): 1; (15): 3; (18): 1; (113): 1.

The Cosmopolitan *M. loreyi* (Duponchel) [I]

DORSET (9): Portland, 14.10 (MFH).

Red Sword-grass *Xylota vetusta* (Hübner) [I]

SURREY (17): Hog's Back, 24.3 - 1 male (Halsey 1992); NORTH ESSEX (19): St. Osyth, 16.10 (RWA per BG²).

Flame Brocade *Trigonophora flammea* (Esper) [I]

Note: Does not include Channel Islands where the species is resident.

DORSET (9): Durlleston, 10.10; 11.10, 12.10; 13.10; 14.10 (DB, MFH); 11.10; 12.10; 15.10 (per RP); 12.10 - 1 female (GAC); Portland Bird Observatory, 10.10 (MC).

Red-headed Chestnut *Conistra erythrocephala* (Denis & Schiffermüller) [I]

WEST SUSSEX (13): Pagham Harbour, 29.10 - 1 ab. *glabra* (Gardner 1992).

Tree-lichen Beauty *Cryphia algae* (Fabricius) [I]

SOUTH HAMPSHIRE (11): Southsea, 21.8 (Langmaid 1992); WEST SUSSEX (13): Walberton, 1.9 (JTR per CRP); CHANNEL ISLANDS (113): Forest, Guernsey, 1.9 (TNDP, also reported in Austin (1991)), Herm, 2.9 (MS).

Marbled Grey *C. raptricula* (Denis & Schiffermüller) [I]

EAST KENT(15): Dungeness, 31.7 (Clancy 1992); Greatstone, 7.8; 26.8 (RET per Clancy (1992); Lydd, 22.8 (KR per Clancy (1992)).

The Orache *Trachea atriplicis* (Linnaeus) [I]

EAST NORFOLK (27): Hickling, 21.7 (R. Heppenstall, det. conf. H. Beaumont per DH).

Angle-striped Sallow *Enargia paleacea* (Esper) [I]

DORSET (9): Portland Bird Observatory, 30.7 (MC).

Scarce Brindle *Apamea lateritia* (Hufnagel) [I]

SOUTH-EAST YORKSHIRE (61): Spurn Head, 17.7 (Spence 1992).

Mere Wainscot *Photedes fluxa* (Hübner) [I?/V?]

DORSET (9): Portland Bird Observatory, 29.7 (MC); EAST KENT (15): Kingsgate, Thanet, 11.8 (F. Solly per TWH); SOUTH-EAST YORKSHIRE (61): Spurn Head, 1.8; 3.8 - 1 found dead (BS).

Blair's Wainscot *Sedina buettneri* (Hering) [I]

EAST KENT (15): Dungeness, 12.10 (AJ).

Small Mottled Willow *Spodoptera exigua* (Hübner) [I]

DORSET (9):Portland Bird Observatory, 16.10 (MC).

Scarce Bordered Straw *Heliothis armigera* (Hübner) [I]

DORSET (9): Gaunts Common, 10.10 (PD); Portland, 14.10 - 3; 15.10 - 2 (MFH); Portland Bird Observatory, 10.10-24.10 - 8 (MC); St. Albans Head, 8.10; 9.10 - 2 (PD); Studland, 10.10; 14.10 (DB); 13.10 (PD); SOUTH HAMPSHIRE (11): Brockenhurst, 8.10 (JEC); WEST SUSSEX (13): Littlehampton Dunes, 14.10 (APF & MSP, also reported in Foster (1992)); Walberton, 8.10 (JTR per CRP); SURREY (17): Wisley RHS Garden, 8/9.10 (AJH); SOUTH ESSEX (18): Bradwell-on-Sea, 16.10 (SD).

Bordered Straw *H. peltigera* (Denis & Schiffermüller) [I]

DORSET (9): Durlleston, 21.9 DB); 22.9 (per RP); ISLE OF WIGHT (10): Chale Green, 26.7 - 2 (SC per SAKJ); SURREY (17): Wisley RHS Garden, 8.10 (RIS trap per AJH); NORTH ESSEX (19): Dovercourt, 14.10 (Mrs D.M. Anthony per BG²); NORTH LINCOLNSHIRE (54): Northcotes, 23.7 (R. Lorand per RJ).

Silver Barred *Deltote bankiana* (Fabricius) [I?/V?]

SOUTH ESSEX (18): Bradwell-on-Sea, 11.7 (AJD); 15.7 (SD).

Golden Twin-spot *Chrysodeixis chalcites* (Esper) [I]

DORSET (9): Portland Bird Observatory, 4.9 (MC); 14.9 (NH & MC); SOUTH HAMPSHIRE (11): Chilling, Warsash, 6.8 (PMP); WEST SUSSEX (13): Littlehampton

Dunes, 14.10 - 4 females and 1 male (4 at m.v., 1 female at ivy blossom) (APF & MSP, also reported in Foster (1992)); Walberton, 11.10; 15.10 (JTR per CRP); EAST SUSSEX (14): Peacehaven, 3.8 (CRP); SOUTH ESSEX (18): Bradwell-on-Sea, 21.9 - 1 female (AJD); NORTH ESSEX (19): St. Oysth, 21.9 (RWA per BG²).

Dewicks *Plusia Macdunnoughia confusa* (Stephens) [I]

SOUTH HAMPSHIRE (11): Portsmouth, 28.8 (Lakin 1992); EAST KENT (15): New Romney, 9.10 - 1 male (KR per SPC); WARWICKSHIRE (38): Bearley, nr. Stratford, 4.9 (I. Reid per Brown 1992b).

Golden Spangle *Autographa bractea* (Denis & Schiffermüller) [I?/V?]

Note: Records outside known resident range only.

SOUTH-EAST YORKSHIRE (61): Flamborough, 31.7 (PQW); Muston, 8.8 (PQW); Spurn, 3.8 (BS); 17.8 (RIS trap per BS); Withernsea, 29.7 (per M.-C. Frost, confirmed BS); NORTH-EAST YORKSHIRE (62): Wass, "a fair number", no dates given (A.M.R. Heron per PQW); Grosmont, 3.8 (W. Norman per PQW).

Scarce Silver Y *Syngrapha interrogationis* (Linnaeus) [I?]

ORKNEY ISLANDS (111): Orphir, 1.8 - 1 of North (Continental) European form (IRL).

ANNEXE 2: SELECTED RECORDS OF "COMMONER" SPECIES

This annexe gives a very brief summary of the abundance over the year (on occasions comparisons being made with other years) and the earliest and latest dates for the more frequent immigrant species which are not covered in Annexe 1, such as large numbers of an individual species or unusual records of resident species which may be the result of migrant activity, are also given.

YPONOMEUTIDAE

***Plutella xylostella* (Linnaeus)**

Comparatively few reports received.

Earliest date: BERKSHIRE (22): Fernham, 15.5 (SN).

Latest date: NOTH HAMPSHIRE (12): Burghclere, 1.12 (GCEF).

Other significant records: DORSET (9): Portland, 30.7 - c.50 (PD); SOUTH-EAST YORKSHIRE (61): Spurn, 9.7 - 46, in RIS trap (BS).

PYRALIDAE

***Udea ferrugalis* (Hübner)**

Comparatively few reports received (estimated at approx. 250 examples).

Earliest date: SOUTH HAMPSHIRE (11): Chilling, Warsash, 21.7 (PMP).

Latest date: DORSET (9): Durlston, 26.11 (PD).

Other significant records: DORSET (9): Durlston, 22.9 - 22 (PD).

***Nomophila noctuella* (Denis & Schiffermüller)**

Very few records received (under 40 examples).

Earliest date: ORKNEY ISLANDS (111): Orphir, 23.5 (RIL).

Latest date: DORSET (9): Portland Bird Observatory, 29.10 (MC).

PIERIDAE**Large White *Pieris brassicae* (Linnaeus)**

Possibly significant records only: DORSET (9): Portland, 8.8 - a considerable northward movement in from the sea (MC); ORKNEY ISLANDS (111): Orphir, 6.6 - only sizeable migration of the year (RIL).

NYMPHALIDAE**Red Admiral *Vanessa atalanta* (Linnaeus)**

See introductory text.

Earliest date: SOUTH HAMPSHIRE (11): Chilling, Warsash, 22.4 (PMP).

Latest date: SOUTH HAMPSHIRE (11): Titchfield Haven, 26.11 (PMP).

Other significant records: SOUTH DEVON (3): East Prawle, 4.8 - "hundreds" (Catt 1992); Prawle Point, 27.9 - 72+ DB²; Scoble, 26.9 - 30 (DB²); SOUTH HAMPSHIRE (11): Titchfield Haven, 12.10 - 20 (PMP); EAST SUSSEX (14): 205 records, highest recorded number for at least 20 years at this locality (CRP); SOUTH ESSEX (18): Bradwell, 3.8 - 59; 27.8 - 27; 9.9 - 25 (AJD); CHANNEL ISLANDS (113): Sausmarez Road, Guernsey, 14.9 (TNDP); Co. FERMANAGH (H33): Bellanaleck, 31.8 & 1.9 - 22 (IR); Co. DOWN (H38): Newcastle, 22.9 - 25 (per IR).

Painted Lady *Cynthia cardui* (Linnaeus)

See introductory text.

Earliest date: Co. FERMANAGH (H33): LISNASKEA, 5.5 (PER IR).

Latest date: DORSET (9): Portland, 5.11 (MC).

Other significant records: SOUTH DEVON (3): East Prawle, 4.8 - "hundreds" (Catt 1992); Soar, nr. Bolt Head, 7.9 - 10, "watched off the sea" (VT); DORSET (9): Portland, 30.9 - 3 at m.v. light (MFH); EAST SUSSEX (14): 68 records, highest recorded number for at least 20 years at this locality (CRP); SOUTH ESSEX (18): Bradwell, 2.9 - 37 (AJD); NORTH ESSEX (19): WALTON, 10.9 - c.20 (C. Gibson per BG²).

GEOMETRIDAE**Latticed Heath *Semiothisa clathrata* (Linnaeus)**

Possibly significant records only: SOUTH ESSEX (18): Bradwell, 30.7 - 121; 14.8 - 224, very few prior to 1am; 15.8 - 34 (SD); 30.7 - 135; 14.8 - 297; 15.8 - 48 (AJD).

NOCTUIDAE**Dark Sword-grass *Agrotis ipsilon* (Hufnagel)**

Comparitively very few records received (estimated at approx. 150 examples).

Earliest date: EAST SUSSEX (14): Sedlescombe, 11.4 (PPR).

Latest date: DORSET (9): Durlleston, 26.11 (PD).

Other significant records: ISLE OF WIGHT (10): Freshwater, "Not more than 20" noted during the year (SAKJ); EAST SUSSEX (14): Peacehaven, lowest number recorded at this locality for at least 20 years (CRP).

Large Yellow Underwing *Noctua pronuba* (Linnaeus)

Possibly significant record only: EAST NORFOLK (27): Winterton Dunes, 1.8, huge influx (APF & DH).

Pearly Underwing *Peridroma saucia* (Hübner)

Comparatively very few records received (estimated at approx. 70 examples).

Earliest date: ORKNEY ISLANDS (111): Orphir, 22.5 (RIL).

Latest date: DORSET (9): Durlston, 16.12 (PD).

Other significant records: ISLE OF WIGHT (10): Freshwater, "Only 6" records for the year (SAKJ); EAST SUSSEX (14): Peacehaven, lowest number recorded since 1976 (CRP).

The Satellite *Eupsila transversa* (Hufnagel)

Possibly significant record only: ORKNEY ISLANDS (111): North Ronaldsay lighthouse, 14.10 - 25+ (M. Gray per IRL).

The Brick *Agrochola circumcellaris* (Hufnagel)

Possibly significant record only: ORKNEY ISLANDS (111): North Ronaldsay lighthouse, 14.10 - 25+ (M. Gray per IRL).

Angle Shades *Phlogophora meticulosa* (Linnaeus)

Possibly significant record only: WEST SUSSEX (13): Hassocks, 10.10 - 53 on shop window (DD); NORTH LINCOLNSHIRE (54): Little Cawthorpe, 9.10 - 150+ (G. Wright per RJ); ORKNEY ISLANDS (111): North Ronaldsay, 14.10 - 50+ (M. Gray per RIL); EAST CORK (H5): Ballynamona Strand, Ballycotton, 9.9 - 47 (M. Tunmore per KGMB).

Silver Y *Autographa gamma* (Linnaeus)

See introductory text.

Earliest date: SOUTH HAMPSHIRE (11): Winchester, 12.5 (DHS).

Latest date: DORSET (9): Durlston, 15.12 (per RP).

Selected significant records only: SOUTH DEVON (3): Hope Cove, Plymouth, 5.9 - "a Fuschia hedge approx. 30m long literally shimmered with thousands upon thousands" (VT); Prawle Point 2.9 - 380 (DB²); Scoble, 13.9 - 10,000+; 17.9 - 2000 (DB²); DORSET (9): Durlston, 28.8 - 323; 2.9 - 615; 3.9 - 111; 6.9 - 210; 16.9 - 100; 19.9 - 302; 20.9 - 276 (per RP); Gaunts Common 2.9 - c.500 (PD); Wimborne, 2.9 - 750; 14.9 - 750 (JWF); Portland Bird Observatory, 28.8 - 1457 (MC); SOUTH WILTSHIRE (8): Bishopstone, nr. Salisbury, 17.9 - 170+ (SMP); ISLE OF WIGHT (10): Chale Green, 2.9 - 417 (SC); Freshwater, 3.9 - 300 (SAKJ); West High Down, 31.8, estimated 40,000 per hour coming off the sea moving in an easterly direction, over a period of three and a half hours by day (Colenutt 1992); SOUTH HAMPSHIRE (11): Southsea, 2.9 - 139 (JRL); Sparsholt, 2.9 - 157 (AHD); EAST SUSSEX (14): Beachy Head, 1.9 - "Thousands" by day (P. Wilsdon per CRP); Glynde, 1.9 - "Hundreds" by day (B. Fordham per CRP); Peacehaven, 1.9 - 236 (CRP), total for the year = 1321, highest number trapped at locality since 1977 (CRP); SOUTH ESSEX (18): Bradwell, 21.8 - 184; 22.8 - 319; 25.8 - 163; 1.9 - 202; 3.9 - 113; 11.9 - 455; 16.9 - 140; 22.9 - 136; 10.10 - 272; 11.10 - 185; 12.10 - 142 (AJD); NORTH ESSEX: Dovercourt, "every garden had tens/hundreds feeding on garden flowers during the day" (C. Gibson per BG²), Irlams Saltmarsh/Dunes 9 - "estimated 10,000 along a 500m stretch" (Colchester Nat. Hist. Soc. per BG²); SOUTH-EAST YORKSHIRE (61): Spurn, 25.8 - 300; 1.9 - c.1000 (BS); ORKNEY ISLANDS (111): North Ronaldsay Lighthouse, 14.10 - 400+ (M. Gray per RIL); CHANNEL ISLANDS (113): Guernsey, 10.9 - c.400 (RAA).

Initials of recorders

The recorders initials are listed alphabetically so that records can be extracted with relative ease.

AHD	A.H. Dobson	DJW	D.J. Wedd	RAA	R.A. Austin
AJ	A. Jenkins	DY	D. Young	RAS	R.A. Softly
AJH	A.J. Halstead	FHNS	Dr F.N.H. Smith	RB	R. Burridge
AJP	A.J. Pickles	GAC	G.A. Collins	RB ²	R. Burt
AJD	A.J. Dewick	GCEF	G.C. Eastwick-Field	RCK	R.C. Kendrick
AP	A. Parrack	GDB	G.D. Best	RET	R.E. Turley
APF	A.P. Foster	GEH	G.E. Higgs	RHM	R.H. Mays
BB	B. Banson	IR	I. Rippey	RIL	R.I. Lorimer
BC	B. Collin	JDP	J.D. Parrack	RJ	R. Johnson
BFS	B.F. Skinner	JEC	J.E. Chainey	RL	R. Leverton
BG	B. Goater	JPB	J.P. Bowdrey	RMc	R. McCormick
BG ²	B. Goodey	JRL	J.R. Langmaid	RP	R. Plowman
BLS	B.L. Statham	JTR	J.T. Radford	RRC	R.R. Cook
BS	B. Spence	JW	J. Ward	RWA	R.W. Arthur
CH	C. Hart	JWF	J.W. Fradgley	SAKJ	S.A. Knill-Jones
CCP	C. Penney	KGMB	K.G.M. Bond	SC	S. Colenutt
CRP	C.R. Pratt	KR	K. Redshaw	SD	S. Dewick
CTP	C.T. Pickles	MC	M. Cade	SMP	S.M. Palmer
CWP	C.W. Plant	MFH	M.F. Halsey	SPC	S.P. Clancy
DEW	D.E. Wilson	MJS	M.J. Simmons	ST	S. Tucker
DB	D. Brown	MS	M. Shaffer	TNDP	T.N.D. Peet
DB ²	D. Buckingham	MSP	M.S. Parsons	TWH	T.W. Harman
DD	D. Dey	PD	P. Davey	VT	V. Tucker
DH	D. Hipperson	PMP	P.M. Potts	WGK	W.G. Kittle
DHH	D.H. Howton	PPR	P.P. Roper		
DHS	Lt. Col. D.H. Sterling	PQW	P.Q. Winter		

Contributors not cited in the text

D.J.L. Agassiz; N. Arnold; G.D. Best; J.F. Burton; J.L. Campbell; C.B. Collins; P. Costen; G. Craine; R.C. Denning; J. Ellis; R. Fairclough; P. Fleming; J.A.C. Greenwood; B.P. Henwood; D.C. Hulme; M.R. Langdon; B.R. Mitchell; R.D. Penhallurick; Mrs S.J. Pettit; S. Pittman; A.M. & D.K. Riley; B.E. Slade; Dr S. Wright.

Acknowledgements

We would like to take this opportunity to thank all of the above mentioned contributors. We would particularly like to thank D.E. Wilson and P.A. Sokoloff for the initial computerisation of the records and Rev. Dr D.J.L. Agassiz for all his useful comments on the manuscript.

References

- Agassiz, D.J.L., Heckford, R.J. & Langmaid, J.R., 1993. Microlepidoptera review for 1991. *Entomologist's Record & Journal of Variation*, **105**: 159-170.
- Andrews, R.S., 1992. Deaths-Head Hawkmoth *Acherontia atropos* in Hampshire. *Bulletin of the Amateur Entomologists' Society*, **51**: 206.
- Austin, R., 1991. *Moths and Butterflies of Guernsey 1991*. La Société Guernesiaise.

- Bales, C., 1991. Queen of Spain Fritillary at Gorleston-on-Sea. *Bulletin of the Amateur Entomologists' Society*, **50**: 211.
- Bradley, J.D. & Fletcher, D.S., 1979. *A recorder's log book or label list of British butterflies and moths*. Curwen Press, Plaistow.
- Brown, D.C.G., 1992a. *Idaea vulpinaria atrosignaria* Lempke (Least Carpet) and other interesting species in Warwickshire 1991. *Entomologist's Record & Journal of Variation*, **104**: 49.
- , 1992b. *Macdunnoughia confusa* Steph. (Lep.: Noctuidae) in Warwickshire. *Entomologist's Record & Journal of Variation*, **104**: 159.
- Butt, N., 1992. A very late Hummingbird Hawkmoth. *Bulletin of the Amateur Entomologists' Society*, **51**: 129.
- Catt, M., 1992. Migrant magic in Devon in 1991. *Bulletin of the Amateur Entomologists' Society*, **51**: 110.
- Clancy, S., 1992. *Cryphia raptricula* (Marbled Grey) in Kent during 1991. *Entomologist's Record & Journal of Variation*, **104**: 163-164.
- , 1994. A migrant *Ephestia*? (Lep.: Pyralidae). *Entomologist's Record & Journal of Variation*, **106**: 19.
- Colenutt, S., 1992. Observation of a migration at West High Down, The Needles, Isle of Wight. *Entomologist's Record & Journal of Variation*, **104**: 46.
- Cramp, P.J., 1992. *Lymantria dispar* L. (Lep.: Lymantridae), Gypsy Moth on the Isle of Wight. *Entomologist's Record & Journal of Variation*, **104**: 42.
- Cribb, P.W., 1991. A new record of a Pale Clouded Yellow in Middlesex. *Bulletin of the Amateur Entomologists' Society*, **50**: 236.
- Foster, A.P., 1992. An influx of *Chrysodeixis chalcites* (Esper) in Sussex. *Entomologist's Record & Journal of Variation*, **104**: 17-18.
- Gardiner, B.O.C., 1991. Deaths-head Hawkmoth near Sheffield. *Bulletin of the Amateur Entomologists' Society*, **50**: 287.
- Gardner A., 1992. Red-headed Chestnut (*Conistra erythrocephala* D.&S.) in West Sussex. *Entomologist's Record & Journal of Variation*, **104**: 161.
- Haggett, G.M., 1992. Bedstraw Hawk in Norfolk. *Entomologist's Record & Journal of Variation*, **104**: 44-45.
- Halsey, M.F., 1992. *Xylena vetusta* Hb., the Red Sword-grass (Lep.: Noctuidae) in Surrey. *Entomologist's Record & Journal of Variation*, **104**: 44.
- Hancock, E.G., 1993. Insect records from the West of Scotland in 1991 and some records of Coleoptera for 1990. *Glasgow Naturalist*, **22**(3): 251-254.
- Harmer, A.S., 1992. 1991 Annual Exhibition. Imperial College, London SW7 - 26 October 1991. British Butterflies. *British Journal of Entomology & Natural History*, **5**: 51-52.
- Heckford, R.J., 1994a. *Cochylis molliculana* Zeller (Lepidoptera: Tortricidae) in Dorset. *Entomologist's Gazette*, **45**: 259.
- , 1994b. *Batrachedra parvulipunctella* Chrétien (Lepidoptera: Momphidae), a surprising addition to the British list. *Entomologist's Gazette*, **45**: 261-265.
- Henwood, B., 1992. 1991 Annual Exhibition. Imperial College, London SW7 - 26 October 1991. British Microlepidoptera. *British Journal of Entomology & Natural History*, **5**: 60.
- Knill-Jones, S.A., 1992a. *Euplagia quadripunctaria* (Poda) in the Isle of Wight. *Entomologist's Record & Journal of Variation*, **104**: 42.
- , 1992b. *Idaea vulpinaria* (H.-S.) - new to the Isle of Wight list. *Entomologist's Record & Journal of Variation*, **104**: 49.

- , 1992c. 1991 Annual Exhibition. Imperial College, London SW7 - 26 October 1991. British Microlepidoptera. *British Journal of Entomology & Natural History*, **5**: 61.
- Koryszko, J., 1992. A Clouded Yellow in Staffordshire, 1991. *Bulletin of the Amateur Entomologists' Society*, **51**: 35.
- Lakin, 1992. 1991 Annual Exhibition. Imperial College, London SW7 - 26 October 1991. *Entomologist's Record & Journal of Variation*, **104**: 159.
- Langmaid, J.R., 1992. *Cryphia algae* (Fabricius) (Lepidoptera: Noctuidae) in Hampshire. *Entomologist's Gazette*, **43**: 150.
- Nash, S., 1992. 1991 Annual Exhibition. Imperial College, London SW7 - 26 October 1991. British Macrolepidoptera. *British Journal of Entomology & Natural History*, **5**: 57.
- Pettit, S.J., 1991. Spurge Hawkmoth at Newton Abbot, Devon. *Bulletin of the Amateur Entomologists' Society*, **50**: 262.
- Pickles, A.J. & Pickles, C.T., 1992. 1991 Annual Exhibition. Imperial College, London SW7 - 26 October 1991. British Butterflies. *British Journal of Entomology & Natural History*, **5**: 53.
- Pickles, A.J., Pickles, C.T. & Wild, E.H., 1992. 1991 Annual Exhibition. Imperial College, London SW7 - 26 October 1991. British Macrolepidoptera. *British Journal of Entomology & Natural History*, **5**: 57.
- Riley, A.M. & Palmer, R.M., 1994. Recent significant additions and corrigenda to the list of Lepidoptera recorded in Shropshire. *Entomologist's Gazette*, **45**: 167-182.
- Riley, A.M. & Townsend, M., 1992. Rothamsted farmland ecology project: interesting Lepidoptera records for June 1991. *Entomologist's Record & Journal of Variation*, **104**: 160-161.
- Simmons, M. 1992. 1991 Annual Exhibition. Imperial College, London SW7 - 26 October 1991. British Macrolepidoptera. *British Journal of Entomology & Natural History*, **5**: 57-58.
- Skinner, B.F., 1992. 1991 Annual Exhibition. Imperial College, London SW7 - 26 October 1991. British Butterflies. *British Journal of Entomology & Natural History*, **5**: 54.
- , 1995. Pyralid moths in profile: part 2 - *Acrobasis tumidana* (Denis & Schifferrmüller). *Entomologist's Record & Journal of Variation*, **107**: 241-243.
- Wedd, D., 1992. 1991 Annual Exhibition. Imperial College, London SW7 - 26 October 1991. British Butterflies. *British Journal of Entomology & Natural History*, **5**: 54.
- Wild, E.H., 1992. *Udea fulvalis* Hübn. in Christchurch. *Entomologist's Record & Journal of Variation*, **104**: 49.
- Wilson, D., 1992. Lepidoptera notes from East Hertfordshire. *Entomologist's Record & Journal of Variation*, **104**: 238.

***Campaea margaritata* (L.) ab. *rubrociliata* Schawerda (Lep.: Geometridae) in south-east London**

Since my recent note (1995, *Ent. Rec.* **107**: 282) recording a specimen from here of the Light Emerald with all the fringes red, Mr B.K. West has been good enough to supply the answer to my query as to its identity. He determined the form as that cited above, from an unpublished work by



Skinner, Bernard and Parsons, Mark. 1996. "The immigration of Lepidoptera to the British Isles in 1991." *The entomologist's record and journal of variation* 108, 151–167.

View This Item Online: <https://www.biodiversitylibrary.org/item/94962>

Permalink: <https://www.biodiversitylibrary.org/partpdf/195508>

Holding Institution

Harvard University, Museum of Comparative Zoology, Ernst Mayr Library

Sponsored by

Harvard University, Museum of Comparative Zoology, Ernst Mayr Library

Copyright & Reuse

Copyright Status: In copyright. Digitized with the permission of the rights holder.

Rights Holder: Amateur Entomologists' Society

License: <http://creativecommons.org/licenses/by-nc-sa/3.0/>

Rights: <https://biodiversitylibrary.org/permissions>

This document was created from content at the **Biodiversity Heritage Library**, the world's largest open access digital library for biodiversity literature and archives. Visit BHL at <https://www.biodiversitylibrary.org>.