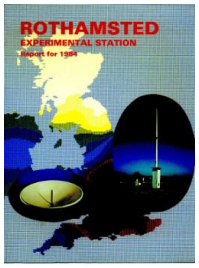
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ROTHAMSTED RESEARCH

Rothamsted Experimental Station Report for 1984

Full Table of Content



Rothamsted Insect Survey, Sixteenth Annual Summary

L. R. Taylor, I. P. Woiwod, E. D. M. Macaulay, M. J. Dupuch and J. Nicklen

L. R. Taylor, I. P. Woiwod, E. D. M. Macaulay, M. J. Dupuch and J. Nicklen (1985) *Rothamsted Insect Survey, Sixteenth Annual Summary ;* Rothamsted Experimental Station Report For 1984, pp 285 - 315 **- DOI: https://doi.org/10.23637/ERADOC-1-34041**

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Rothamsted Insect Survey

Sixteenth Annual Summary

L. R. TAYLOR, I. P. WOIWOD, E. D. M. MACAULAY,
MAUREEN J. DUPUCH and JOAN NICKLEN

Suction traps 1984

Daily samples were collected from 2 April to 11 November 1984. *Aphid bulletins* were issued weekly from 16 April (*Bulletin* No. 1) to 18 November (*Bulletin* No. 31). The 33 aphid taxa listed in Table 1 (a–h) are those in the *Aphid Bulletin.*

The suction traps at (916) Elgin, (907) Dundee, (912) East Craigs, (931) Pathhead, (923) Auchincruive, Ayr and also (925) Stirling are entirely operated by Dr L. A. D. Turl and colleagues at the Department of Agriculture and Fisheries for Scotland (DAFS), East Craigs.

The trap at (927) Belfast did not operate until 10 April. The trap at (928) Rainham only operated from 5 March to 17 July; it only appeared on *Bulletins* up to 15 July and in Table 1 (a–d).

Suction traps sampling at 5 ft (1·5 m) were operating at (954) East Craigs, (956) Ingraston and (951) Rothamsted Tower; records for these do not appear on *Bulletins* nor in Table 1.

Samples from (911) Aberystwyth were identified by Mr J. A'Brook and Mr H. Evans of the Welsh Plant Breeding Station; Mr W. A. Thornhill and Dr A. M. Dewar of Broom's Barn Experimental Station identified catches from (904) Broom's Barn. The samples from the Scottish traps were identified by Dr L. A. D. Turl, Dr K. F. A. Walters and Mr F. G. Doyle of the Department of Agriculture and Fisheries for Scotland, East Craigs. We appreciate their co-operation, in providing information for the weekly Bulletins and for Table 1.

The *Bulletin,* despatched each Friday, lists aphids caught between 5 and 12 days earlier. This timing is dictated by the postal services.

The *Bulletins* cover the working week Monday to Sunday. Table 1 is for standard four-week periods constant from year to year (see *Rothamsted Report for 1972,* Part 2, 211, Table 4). *Bulletin and Standard weeks do not correspond.*

Sample volumes were halved at various sites as follows: (908) Silwood Park from 15 June to 5 September, (917) Hereford, (914) Long Ashton, (933) Littlehampton and (913) Starcross from 16 June to 5 September, (928) Rainham from 17 June to 17 July, (901) Rothamsted Tower from 19 June to 4 September, (922) Preston, (919) Shardlow, (924) Writtle and (903) Wye from 20 June to 5 September, (934) Kirton from 17 July to 5 September, (911) Aberystwyth 26 July, for one day only. In addition, when numbers were high, catches were sub-sampled in the laboratory to reduce the pressure of work. The weekly *Bulletins* and Table 1 (a–h) are corrected to full volume sample.

In Table 1 (a–h) there are no missing values, a blank records a zero catch.

The most notable feature of 1984 was the large numbers of *Sitobion avenae* in mid-summer throughout England. However, data are not available for the regional variation in crop infestations on wheat.

Two species, *Brachycaudus helichrysi* and *Hyalopterous pruni,* that are occasional pests of plums, were recorded in low numbers. In contrast, another fruit-tree pest, *Rhopalosiphum insertum,* migrated from apple in southern England in large numbers, but the subsequent migrations from Graminae were unusually small giving three seasonal migrations of similar size.

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An unusually large number of male *Metopolophium dirhodum* and *Brevicoryne brassicae* were recorded this spring, especially in southern England. Total *B. brassicae* numbers were generally large, particularly at Hereford and Littlehampton.

1984 produced the largest autumn migration ever of *Myzus persicae* in the East Anglian traps at Broom's Barn and Kirton, but as yet it is not known from which host plants they originated. Elsewhere *M. persicae* numbers were not unusual.

Light traps

Table 2 (a–f) gives the annual catches during 1982 and 1983 of the same pest, or migratory Lepidoptera as in previous years.

Seventy-one sites completed the 364-day sample for 1983.

The sites in Table 2 are arranged in sequence from north to south, and the species in the same order as in previous years. Zero catches are recorded 0; dashes indicate no record.

As in other years, records of additional species of note were sent to Bretherton and Chalmers-Hunt. They reported (1984) 1983 as another year of abundance in particular with total records of over 1000 *Rhodometra sacraria* exceeding the 'Vestal year' of 1947. Survey traps at the following sites (with site no.) contributed to the total: Alice Holt, Hampshire (46), Rosewarne, Cornwall (114), Yarner Wood, Devon (266), Westonbirt, Gloucestershire (292), Castletown, I.O.M. (306), Cockayne Hatley, Bedfordshire (336), Rhandirmwyn, Dyfed (346), Compton Park, Staffordshire (424), and Evesham, Worcestershire (444). Survey traps also caught the following migrant or 'out-of-place' species: *Nycterosea obstipata,* five during October and November at site no. 266, Yarner Wood; *Nola albula,* one 22 July at site no. 266, Yarner Wood; *Leucania unipuncta,* one 2 October at site no. 114, Rosewarne; *Heliothis armigera* one 2 October at site no. 114, Rosewarne; *Idaea ochrata,* one 19 July at site no. 34, Allotments, Rothamsted, Hertfordshire, a species normally considered coastal (Riley, 1984b); *Thaumetopoea processionea,* one 18 August at site no. 252, Guernsey.

Two species exhibiting unusual forms were recorded; the first, *Cycnia mendica,* ab. *rustica* appeared at site no. 99, Geescroft II (Rothamsted, Hertfordshire) on 2 May 1984; the second *Sterrha biselata* ab. *griseata* made another of its regular appearances at site no. 277 Ewingswode, Cambridgeshire in 1982 (Riley, 1984d).

Survey traps also recorded some first county records for the following species: *Eupithecia valerianata* at site no. 421 Rogart, Sutherland (Riley 1984c); *Furcula bifida* at site no. 438 Beaumaris, Anglesey (Riley 1984e); *Deileptenia ribeata* at site no. 339, Glentress, Peeblesshire; *Eupithecia distinctaria* at site no. 339, Glentress, Peeblesshire. One other species, *Hadena luteago barrettii* has extended its range in southern Wales to site no. 333, Tregaron and site no. 440, Aberporth, both in Dyfed (Riley 1984a).

References

BRETHERTON, R. F. & CHALMERS-HUNT, J. M. (1984) Immigration of Lepidoptera to the British Isles in 1983. *Entomologist's Record* **96,** 147–159.

RILEY, A. M. (1984a) Barrett's Marbled Coronet: *Hadena luteago barrettii* Doubl. in Cardiganshire. *Entomologist's Record* **96,** 287.

RILEY, A. M. (1984b) The Bright Wave: *Ideae ochrata* Scop. in Hertfordshire. *Entomologist's Record* **96,**102.

RILEY, A. M. (1984c) *Eupithecia valerianata* Hb.; Valerian Pug (Lep.; Geometridae) in Sutherland. *Entomologist's Record* **96,** 182–183.

RILEY, A. M. (1984d) Melanic *Idaea biselata* Hufn.: Small Fan-footed Wave. *Entomologist's Record* **96,** 286.

RILEY, A. M. (1984e) The Poplar Kitten: *Furcula bifida* Hufnagel in Anglesey. *Entomologist's Record* **96,** 213.

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TABLES 1(a)–1(h)
AND
TABLES 2(a)–2(f)

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TABLE

The Rothamsted Insect Survey—Suction Traps: four-weekly total catches
Week Nos 13 to 16—

Species \ Sites	Elgin (916)	Dundee (907)	Edinburgh (912)	Pathhead (931)	Auchincruive (923)	Newcastle (906)	Belfast (927)	High Mowthorpe (905)	Preston (922)	Kirton (934)	Shardlow (919)	Aberystwyth (911)
Acyrthosiphon pisum												
Amphorophora rubi												
Aphis fabae grp.												
Aphis spp.												
Aulacorthum solani												
Brachycaudus helichrysi												
Brevicoryne brassicae												
Cavariella aegopodii												
Cinara spp.												
Drepanosiphum platanoidis												
Dysaphis plantaginea												
Elatobium abietinum												
Eriosoma ulmi												
Hyalopterus pruni												
Hyperomyzus lactucae												
Macrosiphum euphorbiae												
Megoura viciae												
Metopolophium dirhodum												
Metopolophium festucae s.l.												
Myzus ascalonicus												
Myzus certus												
Myzus ornatus												
Myzus persicae grp.												
Nasonovia ribisnigri												
Pemphigus spp.												
Pentatrichopus fragaefolii												
Phorodon humuli												
Phyllaphis fagi												
Rhopalosiphum insertum												
Rhopalosiphum maidis												
Rhopalosiphum padi												1
Sitobion avenae												
Sitobion fragariae												
First aphid caught			Jan 2–8									April 10

East Craigs 2–8 January, 1 *Rhopalosiphum padi*
9–15 January, 2 *Rhopalosiphum padi*
16–23 January, 1 *Rhopalosiphum padi*
Wye 23–29 January, 1 *Sitobion fragariae*
Littlehampton 5–11 March, 1 *Myzus ornatus*

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1(a)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1984
26 March to 22 April 1984

Species	Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Rainham (928)	Long Ashton (914)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)
Acyrthosiphon pisum											
Amphorophora rubi											
Aphis fabae grp.											
Aphis spp.											1
Aulacorthum solāni					1						
Brachycaudus helichrysi											
Brevicoryne brassicae											
Cavariella aegopodii											
Cinara spp.											
Drepanosiphum platanoidis											
Dysaphis plantaginea											
Elatobium abietinum											
Eriosoma ulmi											
Hyalopterus pruni											
Hyperomyzus lactucae											
Macrosiphum euphorbiae											
Megoura viciae											
Metopolophium dirhodum				1							
Metopolophium festucae s.l.											
Myzus ascalonicus											
Myzus certus						2			1	1	
Myzus ornatus											
Myzus persicae grp.											
Nasonovia ribisnigri											
Pemphigus spp.											
Pentatrichopus fragaefolii											
Phorodon humuli											
Phyllaphis fagi						1					
Rhopalosiphum insertum											
Rhopalosiphum maidis											
Rhopalosiphum padi			1		1				1	1	
Sitobion avenae											
Sitobion fragariae										1	
First aphid caught			April 20	April 19–20	April 20	April 15		Jan 23–29	March 5–11	April 8	April 21

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TABLE

The Rothamsted Insect Survey—Suction Traps: four-weekly total catches
Week Nos 17 to 20—

Sites / Species	Elgin (916)	Dundee (907)	Edinburgh (912)	Pathhead (931)	Auchincruive (923)	Newcastle (906)	Belfast (927)	High Mowthorpe (905)	Preston (922)	Kirton (934)	Shardlow (919)	Aberystwyth (911)
Acyrthosiphon pisum							1					
Amphorophora rubi												
Aphis fabae grp.												
Aphis spp.											1	
Aulacorthum solani										1	1	1
Brachycaudus helichrysi	1		5				2				1	1
Brevicoryne brassicae												
Cavariella aegopodii							3					
Cinara spp.												1
Drepanosiphum platanoidis	3	12					546		961	3	13	2
Dysaphis plantaginea												
Elatobium abietinum	1				2		3		1		1	20
Eriosoma ulmi												
Hyalopterus pruni												
Hyperomyzus lactucae												
Macrosiphum euphorbiae			1	1						1	1	
Megoura viciae												
Metopolophium dirhodum												1
Metopolophium festucae s.l.			2		1		10		3	2	2	6
Myzus ascalonicus	1		11	2	1		7		3	5	16	2
Myzus certus												
Myzus ornatus	1		3				5			1	2	
Myzus persicae grp.								1			2	
Nasonovia ribisnigri												
Pemphigus spp.												
Pentatrichopus fragaefolii												
Phorodon humuli												
Phyllaphis fagi							1					
Rhopalosiphum insertum							41					2
Rhopalosiphum maidis												
Rhopalosiphum padi				1			1		4			17
Sitobion avenae							1					
Sitobion fragariae												1
First aphid caught	April 24	May 18		April 25	May 5		April 25	May 10	May 3	May 9	May 5	

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1(b)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1984
23 April to 20 May 1984

Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Rainham (928)	Long Ashton (914)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)	Species
1				3	1	3	1	2			*Acyrthosiphon pisum*
											Amphorophora rubi
											Aphis fabae grp.
		1	2		5	2	1	3	2	1	*Aphis* spp.
		1			3	2		1	2		*Aulacorthum solani*
		1	2	2	16	5		3	5	8	*Brachycaudus helichrysi*
						1		1			*Brevicoryne brassicae*
				1	1	1		2	15	3	*Cavariella aegopodii*
											Cinara spp.
334		38	3	3	38	10		2	4		*Drepanosiphum platanoidis*
											Dysaphis plantaginea
3	1	1	3			1		1		7	*Elatobium abietinum*
											Eriosoma ulmi
											Hyalopterus pruni
					1	1		1			*Hyperomyzus lactucae*
1		1		10	10	16		12	6	3	*Macrosiphum euphorbiae*
											Megoura viciae
				6	8	4	1	2	10	10	*Metopolophium dirhodum*
2	4	1	3	6	59	15	9	22	16	7	*Metopolophium festucae s.l.*
11	1	11	7	10	27	45	4	13	10	9	*Myzus ascalonicus*
		1		3	3	2			1	2	*Myzus certus*
		2	1	1	21	2		4	8	4	*Myzus ornatus*
				11	4	5	1	2	12	3	*Myzus persicae* grp.
				3	1	1			2		*Nasonovia ribisnigri*
									1		*Pemphigus* spp.
											Pentatrichopus fragaefolii
											Phorodon humuli
2		1				8					*Phyllaphis fagi*
	1			10	13	2		3	16	5	*Rhopalosiphum insertum*
											Rhopalosiphum maidis
	1	1		97	4	9		3	78	58	*Rhopalosiphum padi*
	9		3	9	18	14	1	4	13	5	*Sitobion avenae*
				2	1	1			2	4	*Sitobion fragariae*
May 9	May 9					April 23					First aphid caught

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TABLE

The Rothamsted Insect Survey—Suction Traps: four-weekly total catches
Week Nos 21 to 24—

Sites / Species	Elgin (916)	Dundee (907)	Edinburgh (912)	Pathhead (931)	Auchincruive (923)	Newcastle (906)	Belfast (927)	High Mowthorpe (905)	Preston (922)	Kirton (934)	Shardlow (919)	Aberystwyth (911)
Acyrthosiphon pisum		1	1				12	2	2	3	9	
Amphorophora rubi							2			1		2
Aphis fabae grp.							1					
Aphis spp.		1	3	2			8		8	10	30	1
Aulacorthum solani			1		1		10		16	31	14	1
Brachycaudus helichrysi	3	8	28	9	8	18	572	53	43	119	135	135
Brevicoryne brassicae												1
Cavariella aegopodii	25	9	17	7	3	11	72	7	54	81	23	4
Cinara spp.	1		1				1				1	
Drepanosiphum platanoidis	53	352	30	3	53	7	283	20	2698	221	278	115
Dysaphis plantaginea										1	1	1
Elatobium abietinum	458	36	54	21	121	96	146	41	52	2	9	110
Eriosoma ulmi		7			2		11	1	9		12	
Hyalopterus pruni							5					
Hyperomyzus lactucae		2			1	2	29	1	5	9	12	7
Macrosiphum euphorbiae		1	5	2	1	2	25		3	17	17	2
Megoura viciae												
Metopolophium dirhodum							9		3	4	10	7
Metopolophium festucae s.l.	3	32	57	40	5	96	90	125	88	186	74	37
Myzus ascalonicus	4	3	50	7	8	20	63	19	38	34	90	2
Myzus certus			11	1			9		3	4	16	
Myzus ornatus			2			1	19		1		3	3
Myzus persicae grp.			1			1	4		1	9	18	
Nasonovia ribisnigri	1	2					6		3	6	1	1
Pemphigus spp.						1						
Pentatrichopus fragaefolii							4					
Phorodon humuli							2			1	6	
Phyllaphis fagi	3	13	3		1		46	2	35	3	16	4
Rhopalosiphum insertum		5	10	3	4	162	1178	11	24	24	35	10
Rhopalosiphum maidis								1				
Rhopalosiphum padi	14	45	132	26	50	11	16	6	6	9	10	130
Sitobion avenae	2	10	11	1	3	11	37	14	55	90	494	17
Sitobion fragariae			1	1	1	3	28	2	8	2	4	6
First aphid caught						May 22						

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1(c)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1984
21 May to 17 June 1984

Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Rainham (928)	Long Ashton (914)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)	Species
6	3	3	10	42	10	19	5	9	5	10	*Acyrthosiphon pisum*
1	2			3	1			2	3		*Amphorophora rubi*
6	4	6	2	9		3	6	5	2	1	*Aphis fabae* grp.
7	5	21	37	160	91	58	16	66	36	12	*Aphis* spp.
5	2	3	2	15	26	4	1	6	8	6	*Aulacorthum solani*
274	94	666	242	659	809	569	914	644	154	68	*Brachycaudus helichrysi*
	7		4	59	5	63	4	31	3	1	*Brevicoryne brassicae*
248	19	91	90	150	103	107	108	111	19	9	*Cavariella aegopodii*
				9	2	1	1	3	1		*Cinara* spp.
674	587	684	174	107	177	218	33	120	55	407	*Drepanosiphum platanoidis*
1	1	1		2	2	4					*Dysaphis plantaginea*
22	34	31	8	4	17	16	45	5	13	12	*Elatobium abietinum*
	247	20	11	87	38	27	11	3	1		*Eriosoma ulmi*
	1			2	1			2			*Hyalopterus pruni*
10	14	24	7	50	33	33	18	35	20	7	*Hyperomyzus lactucae*
4	5	14	22	74	68	42	5	58	20	5	*Macrosiphum euphorbiae*
											Megoura viciae
8	85	16	60	377	289	59	71	90	315	81	*Metopolophium dirhodum*
147	366	266	159	184	301	218	102	172	26	14	*Metopolophium festucae s.l.*
42	25	74	22	72	70	87	22	26	19	10	*Myzus ascalonicus*
	4	5	3	35	13	6	2	7	6	5	*Myzus certus*
		7	3	3	18	5		19	4	4	*Myzus ornatus*
6	3	27	47	110	20	23	7	43	6	3	*Myzus persicae* grp.
1	3	5	3	8	4	2	3	10	2	2	*Nasonovia ribisnigri*
											Pemphigus spp.
				3	1			1	2	1	*Pentatrichopus fragaefolii*
4	50	17	77	314	12	249	124	23	1		*Phorodon humuli*
21	5	21	13	13	8	110	5	5	2	1	*Phyllaphis fagi*
22	21	40	46	436	102	64	41	119	516	238	*Rhopalosiphum insertum*
				1							*Rhopalosiphum maidis*
7	5	9	29	288	90	57	28	128	513	213	*Rhopalosiphum padi*
84	533	238	333	651	652	574	137	195	197	16	*Sitobion avenae*
2	26	12	7	67	29	42	24	41	48	36	*Sitobion fragariae*
											First aphid caught

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TABLE

The Rothamsted Insect Survey—Suction Traps: four-weekly total catches
Week Nos 25 to 28—

Species \ Sites	Elgin (916)	Dundee (907)	Edinburgh (912)	Pathhead (931)	Auchincruive (923)	Newcastle (906)	Belfast (927)	High Mowthorpe (905)	Preston (922)	Kirton (934)	Shardlow (919)	Aberystwyth (911)
Acyrthosiphon pisum	1	3	3	6	1	18	6	22	24	71	70	7
Amphorophora rubi	2	14	1		1	3			2			2
Aphis fabae grp.						2	1					
Aphis spp.	1	4	20		1	2	13	1	26	22	112	8
Aulacorthum solani									2	3	16	
Brachycaudus helichrysi	2	10	60	23	2	55	39	112	10	207	100	56
Brevicoryne brassicae						2					8	4
Cavariella aegopodii	13	24	23	17	1	119	39	40	62	131	48	4
Cinara spp.	5	4	4	11	2	18	1		2			7
Drepanosiphum platanoidis	54	250	110	12	23	122	43	127	1345	172	178	32
Dysaphis plantaginea									10	15	4	1
Elatobium abietinum	2	4	1	1	3	14		4	2			3
Eriosoma ulmi	2	246	10	7	4	34	12	12	22	5	22	6
Hyalopterus pruni	2	2	2		1	9	4	9	22	46	40	1
Hyperomyzus lactucae		2	5			2	22	3	2	17	24	6
Macrosiphum euphorbiae	2	43	30	52	7	19	55	3	14	74	54	13
Megoura viciae				1								
Metopolophium dirhodum	13	559	217	147	150	142	237	33	632	608	804	269
Metopolophium festucae s.l.	14	42	102	177	8	194	17	172	43	230	64	4
Myzus ascalonicus			3		1			5	4	3	6	1
Myzus certus			6			1	12	1	3	20	22	
Myzus ornatus			3		1		2		1		4	
Myzus persicae grp.		1	8	2		10	6	14	28	4	210	13
Nasonovia ribisnigri	1	2	1				8	2			6	6
Pemphigus spp.	1	4	4	4	6	5	6	3	34	39	30	
Pentatrichopus fragaefolii												
Phorodon humuli						2	1	3		60	14	1
Phyllaphis fagi	5	16	11	2	1	5	21	5	14	18	54	2
Rhopalosiphum insertum		4	2	3	3	60	48	18	2	48	26	7
Rhopalosiphum maidis				1		3	1		2		4	
Rhopalosiphum padi	25	133	148	114	16	834	6	94	22	291	60	123
Sitobion avenae	47	187	156	90	58	400	308	1380	1485	9307	9212	151
Sitobion fragariae	1	3	7	3	2	19	17	6	38	14	36	8

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1(d)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1984
18 June to 15 July 1984

Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Rainham (928)	Long Ashton (914)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)	Species
50	70	32	176	226	36	62	70	74	206	20	*Acyrthosiphon pisum*
1	2			4	2	2	2	14			*Amphorophora rubi*
13	2	6	16	26	8	24	18	30	8	8	*Aphis fabae* grp.
28	28	70	102	186	236	166	102	208	46	31	*Aphis* spp.
4	10	4	2		14	6		6	2	2	*Aulacorthum solani*
245	24	306	154	358	100	296	1754	108	26	45	*Brachycaudus helichrysi*
10	198	40	426	414	54	850	114	1708	42	19	*Brevicoryne brassicae*
102	10	58	70	132	52	146	134	98	12	32	*Cavariella aegopodii*
2	2		2	8	4	4	8	6	2		*Cinara* spp.
343	54	460	234	40	50	92	66	98	6	206	*Drepanosiphum platanoidis*
15	4	24	18	34	16	26	26	18	4		*Dysaphis plantaginea*
3	22	2	4	2		8	12			6	*Elatobium abietinum*
24	196	32	24	68	52	20	86	16		1	*Eriosoma ulmi*
22	22	42	64	164	12	66	70	18	28		*Hyalopterus pruni*
17	34	20	34	30	28	36	32	38	28	9	*Hyperomyzus lactucae*
16	28	46	88	84	110	90	32	156	26	54	*Macrosiphum euphorbiae*
	4	2		4		4	2	2			*Megoura viciae*
461	966	322	420	594	1110	366	414	400	164	122	*Metopolophium dirhodum*
143	102	272	120	60	60	484	154	42	6	5	*Metopolophium festucae s.l.*
4	4	8			2	8	4	4		5	*Myzus ascalonicus*
	4	12	10	12	6	14	12	8	2	6	*Myzus certus*
			4		6			4	2		*Myzus ornatus*
75	80	150	310	144	54	122	146	180	4	10	*Myzus persicae* grp.
2		6	6	8	2	4	6	4	12	9	*Nasonovia ribisnigri*
9	42	14	16	52	8	28	20	26	14		*Pemphigus* spp.
				6							*Pentatrichopus fragaefolii*
107	78	76	326	728	54	338	998	92			*Phorodon humuli*
46	2	52	40	8	2	82	30	22	2	1	*Phyllaphis fagi*
7	92	52	170	354	92	90	82	258	180	240	*Rhopalosiphum insertum*
	2		2				2				*Rhopalosiphum maidis*
259	136	128	562	772	208	246	324	402	344	151	*Rhopalosiphum padi*
2738	3188	4382	5076	5754	2546	5274	2578	2324	964	249	*Sitobion avenae*
21	62	48	40	102	30	52	62	68	22	67	*Sitobion fragariae*

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TABLE

The Rothamsted Insect Survey—Suction Traps: four-weekly total catches
Week Nos 29 to 32—

Species \ Sites	Elgin (916)	Dundee (907)	Edinburgh (912)	Pathhead (931)	Auchincruive (923)	Newcastle (906)	Belfast (927)	High Mowthorpe (905)	Preston (922)	Kirton (934)	Shardlow (919)	Aberystwyth (911)
Acyrthosiphon pisum	1	290	77	761	4	17	4	27	36	72	90	9
Amphorophora rubi	2	16	1	1		1	1			4		
Aphis fabae grp.	1	4	20	14	4	9	4	14	6	128	30	11
Aphis spp.		21	147	9	2	12	12	21	56	262	270	14
Aulacorthum solani			6	1		2		1	8			
Brachycaudus helichrysi	9	70	114	106	15	40	1	51	16	68	22	17
Brevicoryne brassicae		67	1	9	1		2				16	36
Cavariella aegopodii	4	43	24	37	2	95	7	118	28	60	46	3
Cinara spp.	2	7	4	4	16	6				2		8
Drepanosiphum platanoidis	8	108	20	1	39	100	240	93	1610	32	188	185
Dysaphis plantaginea									8		6	4
Elatobium abietinum					1			1				
Eriosoma ulmi	2	12	2			4	1					
Hyalopterus pruni		14	7	5	4	5	20	22	64	124	204	10
Hyperomyzus lactucae	3	21	29	22		14	6	40	16	18	24	8
Macrosiphum euphorbiae	6	204	160	440	27	30	46	3	46	36	48	29
Megoura viciae												1
Metopolophium dirhodum	34	4088	2511	1144	466	128	149	38	346	112	242	251
Metopolophium festucae s.l.	9	224	249	593	15	238	1	44	6	8		
Myzus ascalonicus			5	2								
Myzus certus		7	27	19	1		1		2	10		
Myzus ornatus		1		1								
Myzus persicae grp.		8	50	28	3	37	2	11	46	20	264	41
Nasonovia ribisnigri	1	4	4	2		1	2	2	2	4	4	2
Pemphigus spp.	2	10	3	6	7	10	4		28	36	2	1
Pentatrichopus fragaefolii												
Phorodon humuli			2							6	4	1
Phyllaphis fagi		4	1	3		8	1				4	1
Rhopalosiphum insertum	3	137	129	233	26	77	30	26	26	82	40	6
Rhopalosiphum maidis				1			1					
Rhopalosiphum padi	341	7620	5901	4977	1020	2674	83	787	278	750	130	150
Sitobion avenae	142	3250	2911	1824	977	686	353	1213	1184	4294	4004	1914
Sitobion fragariae	1	23	30	23	16	45	16	23	52	24	56	10

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of aphids of economic, or other, interest reported in the Weekly Bulletin 1984
16 July to 12 August 1984

Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Rainham (928)	Long Ashton (914)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)	Species
68	94	82	156		68	102	82	184	32	7	*Acyrthosiphon pisum*
		2				2		4			*Amphorophora rubi*
335	10	126	140		26	32	86	112	12	32	*Aphis fabae* grp.
195	140	194	402		174	130	184	232	60	31	*Aphis* spp.
4			2							2	*Aulacorthum solani*
54	58	38	36		20	20	34	26	10	6	*Brachycaudus helichrysi*
26	1122	36	210		156	444	168	2226	138	72	*Brevicoryne brassicae*
25	2	12	24		2	10	16	36	4	3	*Cavariella aegopodii*
1	6		2		2						*Cinara* spp.
15	20	24	30		90	30	22	152	14	106	*Drepanosiphum platanoidis*
	6		6			8	8				*Dysaphis plantaginea*
					4						*Elatobium abietinum*
1	2						6				*Eriosoma ulmi*
135	34	132	270		32	186	134	180	78	10	*Hyalopterus pruni*
23	62	52	32		14	16	10	50	4	5	*Hyperomyzus lactucae*
19	26	42	46		16	4	44	62	12	3	*Macrosiphum euphorbiae*
1	2		22			2	12				*Megoura viciae*
427	718	78	180		182	56	92	170	62	15	*Metopolophium dirhodum*
2	10	4	10			4		4			*Metopolophium festucae s.l.*
											Myzus ascalonicus
2		2	2		2	2					*Myzus certus*
											Myzus ornatus
87	90	108	112		66	22	30	68	14	4	*Myzus persicae* grp.
1			2			2		2		3	*Nasonovia ribisnigri*
19	10	6	8		46	6	4	12	6	2	*Pemphigus* spp.
											Pentatrichopus fragaefolii
48	16	26	102		8	8	238	58	2		*Phorodon humuli*
	2						8	2			*Phyllaphis fagi*
82	110	134	158		54	56	62	22	20	14	*Rhopalosiphum insertum*
1							2		2	1	*Rhopalosiphum maidis*
594	470	194	430		110	266	740	642	1066	109	*Rhopalosiphum padi*
3555	2990	4396	5548		4950	5206	3164	7268	2292	876	*Sitobion avenae*
29	146	36	22		8	24	52	86	14	13	*Sitobion fragariae*

Trap not operating

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TABLE

The Rothamsted Insect Survey—Suction Traps: four-weekly total catches
Week Nos 33 to 36—

Species \ Sites	Elgin (916)	Dundee (907)	Edinburgh (912)	Pathhead (931)	Auchincruive (923)	Newcastle (906)	Belfast (927)	High Mowthorpe (905)	Preston (922)	Kirton (934)	Shardlow (919)	Aberystwyth (911)
Acyrthosiphon pisum	1	3			5	1	2	2	7		5	
Amphorophora rubi	1											
Aphis fabae grp.	9	11	24	20	58	8	2	7	16	12		8
Aphis spp.	1	29	9	3	19	10	2	18	72	50	44	15
Aulacorthum solani												
Brachycaudus helichrysi	9	23	5	14	40	9	13	7	16	6	21	7
Brevicoryne brassicae	1	92	4	13	6		12		11		4	7
Cavariella aegopodii		3		2				1				
Cinara spp.	1	5	3	3		2					4	
Drepanosiphum platanoidis	16	203	76	11	134	106	350	76	1174	74	225	551
Dysaphis plantaginea												
Elatobium abietinum												
Eriosoma ulmi	2	2		1	10				2			
Hyalopterus pruni	15	246	11	5	38	5	134	12	65	17	45	5
Hyperomyzus lactucae		1	1	5								1
Macrosiphum euphorbiae	6	3	5	4	1	2		2	2		5	4
Megoura viciae										2		
Metopolophium dirhodum	5	2	1	4	3			1	4			
Metopolophium festucae s.l.				1	6				2	2		
Myzus ascalonicus												
Myzus certus	2	1	1	2	4			3	4			
Myzus ornatus	1			1		1						
Myzus persicae grp.		4	2	4	4	10	2	21	27	8	10	2
Nasonovia ribisnigri	4										2	
Pemphigus spp.	30	25	24	14	89	25	10	4	73	22	65	22
Pentatrichopus fragaefolii												
Phorodon humuli												
Phyllaphis fagi												1
Rhopalosiphum insertum	36	116	171	396	205	93	48	26	39	95	36	8
Rhopalosiphum maidis		1			3	1						
Rhopalosiphum padi	1313	1057	580	923	2343	362	414	215	1063	477	178	51
Sitobion avenae	91	119	27	79	47	42	31	27	47	39	48	28
Sitobion fragariae		1			2	3	3		2			

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1(f)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1984
13 August to 9 September 1984

Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Rainham (928)	Long Ashton (914)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)	Species
2	2	2	7				8	2	2	1	*Acyrthosiphon pisum*
											Amphorophora rubi
8	26	6			1		2	1	2		*Aphis fabae* grp.
10	66	6	36		13	6	18	10	7	7	*Aphis* spp.
											Aulacorthum solani
60	11	214	21		5	10	11	13	11	17	*Brachycaudus helichrysi*
5	240		4		2	4	6	17	31	10	*Brevicoryne brassicae*
1					2	2					*Cavariella aegopodii*
			6								*Cinara* spp.
81	44	35	38		162	10	122	281	41	343	*Drepanosiphum platanoidis*
									2		*Dysaphis plantaginea*
											Elatobium abietinum
						2					*Eriosoma ulmi*
28	5	20	58		12	9	13	16	19	3	*Hyalopterus pruni*
	6						2		1		*Hyperomyzus lactucae*
3	5				5	1					*Macrosiphum euphorbiae*
8			16								*Megoura viciae*
2			12		2		6				*Metopolophium dirhodum*
											Metopolophium festucae s.l.
											Myzus ascalonicus
		2									*Myzus certus*
			2								*Myzus ornatus*
23	27	2	10		2		2	2	17	1	*Myzus persicae* grp.
1			2								*Nasonovia ribisnigri*
6	19		2		25	6	2	6	49	1	*Pemphigus* spp.
										1	*Pentatrichopus fragaefolii*
3	23					4	11				*Phorodon humuli*
											Phyllaphis fagi
72	20	28	60		6	20	46	20	30	5	*Rhopalosiphum insertum*
1			2			2	6	4		2	*Rhopalosiphum maidis*
231	114	103	260		43	69	231	301	126	57	*Rhopalosiphum padi*
86	24	29	62		10	58	83	37	11	11	*Sitobion avenae*
1										1	*Sitobion fragariae*

Trap not operating

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TABLE

The Rothamsted Insect Survey—Suction Traps: four-weekly total catches
Week Nos 37 to 40—

Species \ Sites	Elgin (916)	Dundee (907)	Edinburgh (912)	Pathhead (931)	Auchincruive (923)	Newcastle (906)	Belfast (927)	High Mowthorpe (905)	Preston (922)	Kirton (934)	Shardlow (919)	Aberystwyth (911)
Acyrthosiphon pisum											1	1
Amphorophora rubi												
Aphis fabae grp.		1					1	1	13	46	5	1
Aphis spp.		2				4	3	3	25	25	20	4
Aulacorthum solani											1	
Brachycaudus helichrysi	10	22	12	7	6	22	16	6	30	12	10	4
Brevicoryne brassicae							1		10	4	5	3
Cavariella aegopodii	3	1		2		2			5			
Cinara spp.			1			2					1	
Drepanosiphum platanoidis	24	527	278	87	81	340	99	103	648	76	1287	87
Dysaphis plantaginea							1		2		1	6
Elatobium abietinum												
Eriosoma ulmi	1	6	12		1	3	2				1	1
Hyalopterus pruni	3	126	4			1		3	7	24	5	1
Hyperomyzus lactucae	1	1						5		9	4	3
Macrosiphum euphorbiae			1			1		4	2		1	1
Megoura viciae												
Metopolophium dirhodum												
Metopolophium festucae s.l.										1		
Myzus ascalonicus												
Myzus certus		6	1	3	1				1			
Myzus ornatus		1			2							1
Myzus persicae grp.		6	1	5	2	20	3	7	25	18	13	6
Nasonovia ribisnigri	3	1	1			1				2	2	2
Pemphigus spp.	172	105	217	72	110	233	19	11	596	49	22	30
Pentatrichopus fragaefolii												
Phorodon humuli										1	1	
Phyllaphis fagi		1										
Rhopalosiphum insertum	58	204	99	341	94	204	309	23	185	67	23	32
Rhopalosiphum maidis								1				
Rhopalosiphum padi	1479	2651	2023	1083	966	3650	4019	458	8463	787	3544	336
Sitobion avenae	1		2		1	4	3		2	5	6	1
Sitobion fragariae							1		3			

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1(g)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1984
10 September to 7 October 1984

Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Rainham (928)	Long Ashton (914)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)	Species
	1	1			8		3		16		*Acyrthosiphon pisum*
											Amphorophora rubi
5	4		2		3		2	1		1	*Aphis fabae* grp.
1	10	4	5		10	9	9	9	9	3	*Aphis* spp.
	1										*Aulacorthum solani*
91	10	23	26		9	7	11	7	13	50	*Brachycaudus helichrysi*
2	6	1	2		3	5	1	2		11	*Brevicoryne brassicae*
		1	2			1	1	2		1	*Cavariella aegopodii*
2							1				*Cinara* spp.
135	38	96	53		248	30	59	45	68	179	*Drepanosiphum platanoidis*
2	6		1		1	6	1	1	1	11	*Dysaphis plantaginea*
											Elatobium abietinum
		2			2	3	1	8	2		*Eriosoma ulmi*
5	2		7		6	4	25	4	5	1	*Hyalopterus pruni*
		1			2		1	1	1		*Hyperomyzus lactucae*
3	4				3	3		1	1		*Macrosiphum euphorbiae*
											Megoura viciae
	2						1				*Metopolophium dirhodum*
											Metopolophium festucae s.l.
											Myzus ascalonicus
								1			*Myzus certus*
						1		1	1	1	*Myzus ornatus*
32	39	4	9		8	3	15	15	39	5	*Myzus persicae* grp.
	1		1		1				1		*Nasonovia ribisnigri*
15	36	4	9		121	15	9	8	34	8	*Pemphigus* spp.
											Pentatrichopus fragaefolii
	229		1			2	738				*Phorodon humuli*
											Phyllaphis fagi
17	5	12	9		17	9	10	12	38	5	*Rhopalosiphum insertum*
			1								*Rhopalosiphum maidis*
447	1045	204	469		726	251	644	157	654	70	*Rhopalosiphum padi*
3	2	2	1		1	2	4	1	3	1	*Sitobion avenae*
					1						*Sitobion fragariae*

Trap not operating

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TABLE

The Rothamsted Insect Survey—Suction Traps: four-weekly total catches
Week Nos 41 to 44—

Species \ Sites	Elgin (916)	Dundee (907)	Edinburgh (912)	Pathhead (931)	Auchincruive (923)	Newcastle (906)	Belfast (927)	High Mowthorpe (905)	Preston (922)	Kirton (934)	Shardlow (919)	Aberystwyth (911)
Acyrthosiphon pisum							1		2		1	
Amphorophora rubi												
Aphis fabae grp.	1							1		55	5	2
Aphis spp.						2		6	14	164	12	1
Aulacorthum solani		1							5			
Brachycaudus helichrysi	2	3	2	2	1	2	2	4	2	5	2	2
Brevicoryne brassicae							1	2	2	7	4	1
Cavariella aegopodii	1	2		1	1			1	12	4	2	3
Cinara spp.		1		1		1						
Drepanosiphum platanoidis	36	369	177	102	49	121	133	165	479	148	458	219
Dysaphis plantaginea								1	4	1		
Elatobium abietinum												
Eriosoma ulmi	3	46	8	1	2				5	26		3
Hyalopterus pruni	1	4								18		
Hyperomyzus lactucae					1		2	7	10	15	1	6
Macrosiphum euphorbiae										3	1	2
Megoura viciae												
Metopolophium dirhodum						3	1		16	2	2	
Metopolophium festucae s.l.	1											
Myzus ascalonicus					1					1		
Myzus certus	3	4		8			1			2		
Myzus ornatus			1						4			
Myzus persicae grp.	2	4		10		4	2	20	21	189	17	1
Nasonovia ribisnigri	1	1						3	1		1	8
Pemphigus spp.	153	40	88	51	44	78	24	8	420	224	28	167
Pentatrichopus fragaefolii										1		
Phorodon humuli								1		1	1	
Phyllaphis fagi		3	3			4			1			
Rhopalosiphum insertum	73	75	127	203	100	136	257	43	435	246	49	335
Rhopalosiphum maidis							1					
Rhopalosiphum padi	407	1917	1074	772	356	608	1703	255	5943	1206	1328	422
Sitobion avenae	1	1					1	2	3	5		3
Sitobion fragariae	2					1	13		7	2		22

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of aphids of economic, or other, interest reported in the Weekly Bulletin 1984
8 October to 4 November 1984

Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Rainham (928)	Long Ashton (914)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)	Species
	1	1			5		1		32		*Acyrthosiphon pisum*
											Amphorophora rubi
19	2	4	9		2	1	5	2	6		*Aphis fabae* grp.
2	5	6	16		9	7	16	8	7	2	*Aphis* spp.
		2	2					2	1		*Aulacorthum solani*
2	10	5	8		8	8	2	3	5	7	*Brachycaudus helichrysi*
2	3	2	11		3	3	1	8	2	15	*Brevicoryne brassicae*
4	1						1	1	5	1	*Cavariella aegopodii*
		1	1						1		*Cinara* spp.
195	149	498	139		456	109	78	85	568	170	*Drepanosiphum platanoidis*
8	1	3	1			1		6	1	1	*Dysaphis plantaginea*
											Elatobium abietinum
	14	2	2		1	4	6	1		2	*Eriosoma ulmi*
2			1			9	3	1	10		*Hyalopterus pruni*
3	9	3	7		6	5	3		4	2	*Hyperomyzus lactucae*
2	3		2		2	1	3	2	1	1	*Macrosiphum euphorbiae*
											Megoura viciae
2	1		1			1	1				*Metopolophium dirhodum*
					2						*Metopolophium festucae s.l.*
							1				*Myzus ascalonicus*
									1		*Myzus certus*
		1				1			2		*Myzus ornatus*
315	23	10	24		10	8	25	9	31	1	*Myzus persicae* grp.
		2	1		1	4		1	6		*Nasonovia ribisnigri*
23	75	32	17		202	35	23	15	121	9	*Pemphigus* spp.
									1	1	*Pentatrichopus fragaefolii*
	74		4		4	4	365		4		*Phorodon humuli*
		1	1			1			1	2	*Phyllaphis fagi*
244	37	121	54		55	36	80	51	123	13	*Rhopalosiphum insertum*
	1					1			9		*Rhopalosiphum maidis*
935	1053	503	788		1405	413	1492	428	1409	161	*Rhopalosiphum padi*
2			1		3	1		4	6	3	*Sitobion avenae*
1	2	1			7	2	3	1	3	7	*Sitobion fragariae*

Trap not operating

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TABLE

The Rothamsted Insect Survey—Light Traps: annual records

Pest Species	Year	Stronchrubie 418	Inverpolly 352	Morvich 421	Cromarty 398	Newton, Elgin 58	Beinn Eighe 350	Fort Augustus 49	Rowardennan 97	East Craigs 261	Glentress 339	Newton by the Sea 426	Auchincruive 293
Gortyna micacea	1982	8	60	77	178	136	83	51	29	7	130	426	10
Rosy Rustic	1983	4	77	54	84	75	58	26	11	6	52	49	10
Bupalus piniaria	1982	0	0	0	0	0	1	0	0	0	1	0	0
Bordered White	1983	2	0	0	0	0	6	0	1	0	0	0	0
Panolis flammea	1982	0	0	0	0	7	2	21	0	0	0	0	0
Pine Beauty	1983	0	0	0	0	0	2	18	0	0	0	0	0
Cerapteryx graminis	1982	216	229	308	61	24	144	112	15	2	184	62	75
Antler Moth	1983	64	82	67	7	10	54	23	9	0	132	45	36
Erannis aurantiaria	1982	0	35	16	81	12	0	21	2	0	4	1	0
Scarce Umber	1983	1	33	43	17	115	0	23	10	0	—	1	0
Operophtera fagata	1982	0	3	8	1	0	0	4	10	0	0	2	0
Northern Winter Moth	1983	0	9	20	22	6	0	5	55	0	—	3	1
Apamea sordens	1982	0	0	0	9	1	0	2	0	3	1	0	4
Rustic Shoulder-knot	1983	0	0	0	4	2	0	0	0	10	0	0	0
Gortyna flavago	1982	0	0	0	0	24	0	0	0	0	5	37	2
Frosted Orange	1983	0	0	0	0	5	0	0	0	0	9	7	1
Mamestra brassicae	1982	0	0	0	0	0	0	5	0	2	0	0	0
Cabbage Moth	1983	1	0	0	2	1	0	0	0	2	1	1	0
Noctua pronuba	1982	6	10	31	55	19	5	4	23	7	16	49	29
Large Yellow Underwing	1983	11	11	10	60	15	2	2	4	2	4	45	7
Diataraxia oleracea	1982	0	6	0	0	5	2	0	0	1	0	25	9
Bright-line Brown-eye	1983	1	3	1	0	24	0	2	0	4	1	39	18
Euxoa nigricans	1982	0	0	0	0	0	0	0	0	1	0	1	0
Garden Dart	1983	0	0	1	0	0	0	0	0	0	0	2	0
Apamea secalis	1982	1	4	5	44	6	6	8	2	29	4	70	41
Common Rustic	1983	0	9	3	72	63	10	9	2	27	7	59	53
Melanchra persicariae	1982	0	0	0	0	0	0	0	0	0	0	0	0
Dot Moth	1983	0	0	0	0	1	0	0	0	0	0	0	0
Operophtera brumata	1982	0	26	13	17	2	150	22	25	0	2	4	0
Winter Moth	1983	0	3	23	33	12	6	17	192	0	—	17	0

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of moths of economic, or other importance for 1982 and 1983

Culzean Castle	Acklington	Kielder	Stocksfield	Chester le Street	Forest in Teesdale	Windermere	Baldersby	Castletown, I.O.M.	Harrogate	Spurn Head	Year	Pest Species
264	442	296	362	39	416	323	315	306	410	131		
62	—	119	74	49	21	1	123	32	34	17	1982	*Gortyna micacea*
31	42	170	51	8	12	2	34	37	24	8	1983	Rosy Rustic
2	—	0	0	0	0	0	0	0	0	0	1982	*Bupalus piniaria*
0	0	1	0	0	0	0	0	0	0	0	1983	Bordered White
3	—	0	0	0	0	0	1	0	0	0	1982	*Panolis flammea*
0	0	0	0	0	0	0	0	0	0	0	1983	Pine Beauty
318	—	39	15	0	186	46	2	16	6	71	1982	*Cerapteryx graminis*
36	16	50	38	8	898	94	35	6	15	20	1983	Antler Moth
0	—	37	0	0	1	0	0	0	40	0	1982	*Erannis aurantiaria*
2	0	81	3	0	1	0	10	0	12	0	1983	Scarce Umber
0	—	15	1	0	3	0	0	0	7	0	1982	*Operophtera fagata*
9	0	13	3	0	3	0	0	0	14	0	1983	Northern Winter Moth
0	—	0	0	6	0	4	9	3	0	10	1982	*Apamea sordens*
0	13	0	0	1	0	0	1	0	0	7	1983	Rustic Shoulder-knot
3	—	0	2	0	0	0	25	4	7	7	1982	*Gortyna flavago*
1	1	0	2	1	0	0	5	2	9	0	1983	Frosted Orange
0	—	1	0	8	0	2	15	0	0	2	1982	*Mamestra brassicae*
0	1	1	0	3	0	2	8	0	0	0	1983	Cabbage Moth
12	—	18	260	30	5	86	41	56	48	213	1982	*Noctua pronuba*
12	36	5	22	39	4	25	10	20	6	38	1983	Large Yellow Underwing
0	—	0	0	1	0	0	3	7	1	57	1982	*Diataraxia oleracea*
1	4	0	0	0	0	0	5	2	0	13	1983	Bright-line Brown-eye
0	—	0	0	3	0	0	0	0	0	0	1982	*Euxoa nigricans*
0	0	0	0	1	0	0	0	0	0	0	1983	Garden Dart
1	—	3	32	37	0	18	132	82	29	58	1982	*Apamea secalis*
15	180	11	14	61	1	21	96	110	31	25	1983	Common Rustic
0	—	0	0	0	0	22	0	0	0	0	1982	*Melanchra persicariae*
0	1	0	0	0	0	51	2	0	0	0	1983	Dot Moth
20	—	18	0	1	2	10	14	12	31	2	1982	*Operophtera brumata*
6	12	115	6	2	0	3	0	29	90	6	1983	Winter Moth

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TABLE

The Rothamsted Insect Survey—Light Traps: annual records

Pest Species	Year	Beaumaris 438	Riseholme 96	Bangor 35	Jodrell Bank 337	Gleadthorpe 257	Sherwood Forest 439	Matlock 279	Gibraltar Point 223	Empingham 280	Shardlow 378	Sutton Bonington 168	Terrington 381
Gortyna micacea	1982	297	—	0	62	57	16	9	20	7	10	33	13
Rosy Rustic	1983	115	7	0	26	33	4	5	15	3	5	5	14
Bupalus piniaria	1982	0	—	0	0	0	0	2	0	0	0	0	0
Bordered White	1983	0	0	0	0	1	1	3	0	0	0	0	0
Panolis flammea	1982	0	—	0	0	0	0	0	0	0	0	0	0
Pine Beauty	1983	0	0	0	0	0	0	0	0	0	0	0	0
Cerapteryx graminis	1982	6	—	1	31	4	145	2	10	0	0	0	1
Antler Moth	1983	12	0	1	22	7	35	0	32	0	0	1	0
Erannis aurantiaria	1982	0	—	0	6	2	14	0	0	1	0	2	0
Scarce Umber	1983	0	1	0	2	3	6	3	0	0	0	0	0
Operophtera fagata	1982	0	—	0	0	1	38	0	0	0	0	0	0
Northern Winter Moth	1983	0	0	0	3	3	6	0	0	0	0	0	0
Apamea sordens	1982	0	—	0	0	0	2	3	20	0	1	4	6
Rustic Shoulder-knot	1983	0	1	1	0	1	1	7	20	1	4	1	1
Gortyna flavago	1982	10	—	0	4	21	1	2	2	1	3	1	5
Frosted Orange	1983	3	0	0	2	4	0	1	0	0	0	2	3
Mamestra brassicae	1982	4	—	5	0	2	0	9	0	24	3	0	2
Cabbage Moth	1983	12	1	4	0	3	0	14	0	11	3	1	6
Noctua pronuba	1982	50	—	24	17	14	2	98	9	15	19	63	3
Large Yellow Underwing	1983	10	1	2	10	4	2	79	1	27	5	9	1
Diataraxia oleracea	1982	1	—	1	0	7	3	1	4	2	9	14	6
Bright-line Brown-eye	1983	6	8	0	0	20	3	11	21	4	19	9	7
Euxoa nigricans	1982	0	—	0	5	1	0	0	0	1	1	0	0
Garden Dart	1983	0	0	0	2	0	0	0	0	0	0	0	0
Apamea secalis	1982	44	—	13	10	24	5	56	51	26	46	108	20
Common Rustic	1983	70	21	13	6	48	13	134	62	42	56	153	17
Melanchra persicariae	1982	0	—	0	0	1	1	1	0	15	2	1	4
Dot Moth	1983	0	2	0	1	5	0	7	0	28	13	8	3
Operophtera brumata	1982	15	—	0	17	13	8	1	0	2	0	4	0
Winter Moth	1983	2	3	0	31	8	12	2	0	5	1	7	0

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Compton Park	Wolverhampton	Santon Downham	Aberystwyth	Monks Wood	Monks Wood (Ewingswode)	Broom's Barn	Tregaron	Llysdinam	Luddington	Aberporth	Cockayne Hatley	Year	Pest Species
424	267	259	340	94	277	88	331	111	414	440	336		
41	0	23	37	20	10	4	173	62	6	46	10	1982	*Gortyna micacea*
10	0	13	25	5	3	2	74	36	1	14	9	1983	Rosy Rustic
0	0	0	0	0	0	0	0	2	0	0	0	1982	*Bupalus piniaria*
0	0	0	1	0	0	0	0	0	0	0	0	1983	Bordered White
0	0	4	0	2	0	0	0	3	0	0	0	1982	*Panolis flammea*
0	0	25	0	1	0	0	0	0	0	0	0	1983	Pine Beauty
0	0	19	44	0	0	0	897	25	1	283	0	1982	*Cerapteryx graminis*
5	0	8	223	0	0	1	412	100	0	220	0	1983	Antler Moth
0	0	3	2	0	13	0	20	42	0	0	1	1982	*Erannis aurantiaria*
0	0	0	0	0	—	0	24	32	0	1	0	1983	Scarce Umber
0	0	0	0	2	57	0	52	0	0	0	0	1982	*Operophtera fagata*
0	0	1	0	3	—	0	100	0	1	0	0	1983	Northern Winter Moth
0	0	1	0	1	1	0	0	0	8	0	1	1982	*Apamea sordens*
0	0	5	0	1	0	3	0	0	1	0	3	1983	Rustic Shoulder-knot
0	0	8	0	8	5	0	32	3	2	3	1	1982	*Gortyna flavago*
0	0	8	0	1	0	0	5	4	0	0	2	1983	Frosted Orange
0	0	3	0	2	1	7	0	0	3	0	1	1982	*Mamestra brassicae*
0	0	2	0	1	0	9	0	0	2	0	0	1983	Cabbage Moth
30	0	1	49	3	15	4	82	10	8	57	2	1982	*Noctua pronuba*
8	2	0	2	0	12	1	7	3	6	3	3	1983	Large Yellow Underwing
1	0	0	0	0	0	1	8	0	2	4	10	1982	*Diataraxia oleracea*
5	1	3	4	4	0	0	4	0	1	9	7	1983	Bright-line Brown-eye
1	1	0	0	0	6	3	0	0	0	3	2	1982	*Euxoa nigricans*
0	1	1	0	1	0	0	0	0	1	0	1	1983	Garden Dart
15	0	4	62	18	24	20	26	13	12	111	38	1982	*Apamea secalis*
18	0	11	63	14	17	7	32	11	21	98	36	1983	Common Rustic
0	1	0	0	2	0	0	1	0	8	7	1	1982	*Melanchra persicariae*
3	3	6	2	1	1	2	1	0	17	19	4	1983	Dot Moth
3	0	21	3	2	601	1	107	85	5	0	5	1982	*Operophtera brumata*
2	0	34	2	0	—	3	66	41	3	0	5	1983	Winter Moth

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TABLE

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Pest Species	Year	Hereford 212	Evesham 444	Rhandirmwyn 346	Trelech 233	Halstead 436	Eaton Bray 412	Rothamsted (Barnfield) 1	Rothamsted (Allotments) 34	Rothamsted (Geescroft) 22	Westonbirt 292	Cardiff 347	Sheppey 370
Gortyna micacea	1982	60	—	46	163	2	1	14	107	5	6	2	2
Rosy Rustic	1983	42	208	15	140	2	7	8	31	2	0	1	3
Bupalus piniaria	1982	0	—	0	0	0	0	0	0	0	2	0	0
Bordered White	1983	0	1	0	0	0	0	0	0	0	0	0	0
Panolis flammea	1982	0	—	0	0	0	0	0	0	0	3	0	0
Pine Beauty	1983	0	0	0	0	0	0	0	0	0	2	0	0
Cerapteryx graminis	1982	0	—	125	6	0	0	1	0	0	0	0	0
Antler Moth	1983	19	1	55	5	0	0	0	0	0	0	0	0
Erannis aurantiaria	1982	0	—	36	1	0	1	0	0	43	15	0	0
Scarce Umber	1983	1	0	41	2	0	0	0	0	37	11	0	0
Operophtera fagata	1982	0	—	0	0	0	0	0	0	0	11	0	0
Northern Winter Moth	1983	0	0	7	0	0	0	0	0	0	6	0	0
Apamea sordens	1982	0	—	2	0	0	8	19	6	1	0	5	0
Rustic Shoulder-knot	1983	0	1	0	0	0	3	5	2	2	0	1	0
Gortyna flavago	1982	3	—	5	25	1	5	1	0	2	3	1	0
Frosted Orange	1983	1	2	1	22	2	2	2	0	0	0	0	0
Mamestra brassicae	1982	0	—	0	0	2	5	2	0	0	1	0	4
Cabbage Moth	1983	1	3	1	1	1	1	0	0	4	1	2	2
Noctua pronuba	1982	10	—	80	80	1	7	35	7	260	54	26	6
Large Yellow Underwing	1983	1	2	16	25	4	2	15	6	93	16	3	4
Diataraxia oleracea	1982	2	—	1	1	0	2	17	7	4	0	8	17
Bright-line Brown-eye	1983	0	3	11	1	2	10	20	2	6	0	3	10
Euxoa nigricans	1982	0	—	0	0	0	1	0	1	0	0	0	0
Garden Dart	1983	0	0	0	0	0	6	0	0	0	0	0	0
Apamea secalis	1982	67	—	16	27	22	1	420	18	83	22	78	35
Common Rustic	1983	39	19	15	56	22	49	658	113	190	71	81	44
Melanchra persicariae	1982	0	—	0	1	1	3	2	1	3	0	0	9
Dot Moth	1983	1	12	4	0	1	11	9	0	4	1	1	11
Operophtera brumata	1982	3	—	106	25	6	7	3	17	116	26	1	0
Winter Moth	1983	15	5	53	11	2	8	3	2	120	13	3	0

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Stratfield Mortimer	Wisley	Alice Holt	Haslemere	Winchester	Lydd	Denny Lodge	Starcross	Yarner Wood	Rosewarne	Guernsey	Jersey		
16	289	46	219	379	366	'368	149	266	114	252	146	Year	Pest Species
0	2	4	6	2	2	1	7	13	4	0	1	1982	*Gortyna micacea*
2	1	4	9	2	2	0	5	9	3	1	1	1983	Rosy Rustic
0	0	3	0	0	0	0	0	0	0	0	0	1982	*Bupalus piniaria*
0	1	1	1	0	0	0	0	0	0	0	0	1983	Bordered White
1	2	2	1	0	0	0	0	0	0	0	0	1982	*Panolis flammea*
0	3	2	0	0	0	0	0	3	0	0	1	1983	Pine Beauty
0	0	20	2	0	5	1	0	0	0	0	0	1982	*Cerapteryx graminis*
0	0	7	0	0	2	0	0	1	0	0	0	1983	Antler Moth
32	1	12	4	0	0	17	—	33	0	0	1	1982	*Erannis aurantiaria*
4	2	3	1	0	0	21	0	6	0	0	0	1983	Scarce Umber
0	1	3	1	1	0	2	—	10	0	0	0	1982	*Operophtera fagata*
0	0	5	0	3	0	11	0	5	0	0	0	1983	Northern Winter Moth
0	2	1	0	5	0	0	0	0	0	0	0	1982	*Apamea sordens*
0	0	0	0	0	0	0	0	0	0	0	0	1983	Rustic Shoulder-knot
0	2	0	0	0	0	3	1	11	2	0	1	1982	*Gortyna flavago*
1	0	0	2	1	0	0	0	6	0	0	0	1983	Frosted Orange
1	5	0	1	12	0	5	0	3	6	4	10	1982	*Mamestra brassicae*
3	11	0	2	4	0	23	3	0	8	10	10	1983	Cabbage Moth
9	8	33	23	64	0	10	5	50	10	3	1	1982	*Noctua pronuba*
11	5	6	11	23	0	3	0	18	2	6	0	1983	Large Yellow Underwing
0	2	0	4	14	17	1	0	7	17	14	4	1982	*Diataraxia oleracea*
5	0	2	1	10	0	0	0	29	10	6	3	1983	Bright-line Brown-eye
0	0	0	0	0	0	0	0	0	0	0	0	1982	*Euxoa nigricans*
0	0	0	0	0	0	0	0	1	2	0	0	1983	Garden Dart
27	21	18	26	126	60	3	7	102	21	20	4	1982	*Apamea secalis*
31	27	26	10	118	62	3	8	60	20	29	2	1983	Common Rustic
0	2	0	0	1	2	0	0	0	3	0	1	1982	*Melanchra persicariae*
1	5	1	1	6	0	0	0	1	4	0	3	1983	Dot Moth
271	16	28	7	2	0	13	—	137	0	4	0	1982	*Operophtera brumata*
149	14	5	3	0	0	16	0	16	6	1	0	1983	Winter Moth

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TABLE

The Rothamsted Insect Survey—Light Traps: annual records

Pest Species	Year	Stronchrubie 418	Inverpolly 352	Morvich 421	Cromarty 398	Newton, Elgin 58	Beinn Eighe 350	Fort Augustus 49	Rowardennan 97	East Craigs 261	Glentress 339	Newton by the Sea 426	Auchincruive 293
Abraxas grossulariata	1982	3	6	0	0	0	8	0	0	0	0	1	0
Magpie Moth	1983	2	20	0	0	0	16	0	0	1	0	4	0
Agrotis segetum	1982	0	0	0	0	0	0	1	0	0	0	0	0
Turnip Moth	1983	0	0	0	0	4	0	0	0	0	0	0	0
Erannis defoliaria	1982	0	7	9	9	2	15	5	19	0	8	1	0
Mottled Umber	1983	1	15	12	5	9	5	2	108	0	—	2	0
Phlogophora meticulosa	1982	0	1	1	0	0	0	2	0	0	0	0	0
Angle Shades	1983	0	1	0	0	0	2	1	0	0	1	1	0
Alsophila aescularia	1982	0	0	1	11	8	0	1	22	0	2	1	0
March Moth	1983	0	0	5	6	1	0	1	12	0	2	1	0
Hepialus humuli	1982	0	0	0	1	0	1	0	0	0	0	0	0
Ghost Swift	1983	0	0	2	1	0	0	0	0	0	0	0	1
Hepialus lupulina	1982	0	0	0	0	0	0	0	9	2	1	16	1
Common Swift	1983	0	1	0	1	0	0	0	0	1	0	7	2
Agrotis ipsilon	1982	0	0	2	0	0	0	0	0	0	0	0	0
Dark Sword Grass	1983	0	0	0	0	0	0	1	1	0	0	0	0
Euproctis chrysorrhoea	1982	0	0	0	0	0	0	0	0	0	0	0	0
Brown-tail	1983	0	0	0	0	0	0	0	0	0	0	0	0
Agrotis exclamationis	1982	0	0	0	0	4	0	0	0	50	3	7	6
Heart and Dart	1983	4	0	0	3	8	0	2	0	50	11	59	7
Plusia gamma	1982	1	3	1	13	2	0	0	2	0	5	45	1
Silver Y	1983	3	2	4	7	0	1	0	4	0	1	45	0
Laphygma exigua	1982	0	0	0	0	0	0	0	0	0	0	0	0
Small Mottled Willow	1983	0	0	0	0	0	0	0	0	0	0	0	0
Nycterosea obstipata	1982	0	0	0	0	0	0	0	0	0	0	0	0
The Gem	1983	0	0	0	0	0	0	0	0	0	0	0	0
Nomophila noctuella	1982	0	0	0	0	0	0	2	0	0	0	0	0
Rush Veneer Pearl	1983	1	0	0	0	0	0	0	2	0	0	0	0
Plutella maculipennis	1982	12	0	0	3	17	0	4	0	12	0	0	1087
Diamond-back Moth	1983	25	3	3	0	53	11	0	0	6	0	0	516
Udea ferrugalis	1982	0	0	0	0	0	0	0	0	0	0	0	0
Rusty Dot Pearl	1983	0	0	0	0	0	0	0	0	0	0	0	0

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Culzean Castle	Acklington	Kielder	Stocksfield	Chester le Street	Forest in Teesdale	Windermere	Baldersby	Castletown, I.O.M.	Harrogate	Spurn Head	Year	Pest Species
264	442	296	362	39	416	323	315	306	410	131		
0	—	0	0	3	0	0	13	10	4	2	1982	*Abraxas grossulariata*
0	5	0	0	3	0	0	9	1	3	1	1983	Magpie Moth
0	—	0	0	1	0	0	0	3	0	2	1982	*Agrotis segetum*
0	0	0	0	1	0	2	3	7	0	4	1983	Turnip Moth
12	—	12	12	2	2	3	5	6	24	0	1982	*Erannis defoliaria*
4	5	21	2	1	0	3	11	21	24	0	1983	Mottled Umber
0	—	1	2	1	0	13	18	7	2	12	1982	*Phlogophora meticulosa*
0	1	2	8	4	1	14	11	8	1	10	1983	Angle Shades
6	—	0	3	4	0	1	9	0	11	0	1982	*Alsophila aescularia*
21	2	0	5	3	0	5	22	0	10	0	1983	March Moth
0	—	0	1	1	0	0	1	0	0	0	1982	*Hepialus humuli*
0	3	0	1	1	7	0	0	0	1	0	1983	Ghost Swift
0	—	1	0	8	0	0	9	0	97	89	1982	*Hepialus lupulina*
0	0	0	0	1	0	0	3	0	103	13	1983	Common Swift
1	—	0	0	0	0	1	1	4	0	2	1982	*Agrotis ipsilon*
0	0	0	0	0	0	3	0	6	2	1	1983	Dark Sword Grass
0	—	0	0	0	0	0	0	0	0	0	1982	*Euproctis chrysorrhoea*
0	0	0	0	0	0	0	0	0	0	1	1983	Brown-tail
5	—	2	22	7	0	66	31	44	42	89	1982	*Agrotis exclamationis*
7	95	1	12	37	0	25	7	30	13	33	1983	Heart and Dart
7	—	3	11	62	2	5	59	45	6	50	1982	*Plusia gamma*
4	3	6	3	59	3	4	82	77	15	33	1983	Silver Y
0	—	0	0	0	0	0	0	0	0	0	1982	*Laphygma exigua*
0	0	0	0	0	0	0	0	0	0	0	1983	Small Mottled Willow
0	—	0	0	0	0	0	0	0	0	0	1982	*Nycterosea obstipata*
0	0	0	0	0	0	0	0	0	0	0	1983	The Gem
1	—	1	—	0	0	0	0	0	—	0	1982	*Nomophila noctuella*
3	—	2	—	0	0	1	0	0	—	3	1983	Rush Veneer Pearl
11	—	1	—	19	0	0	167	0	—	450	1982	*Plutella maculipennis*
4	—	1	—	7	0	0	2	0	—	67	1983	Diamond-back Moth
0	—	2	—	0	0	0	0	0	—	0	1982	*Udea ferrugalis*
0	—	0	—	0	0	0	0	0	—	0	1983	Rusty Dot Pearl

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TABLE

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Pest Species	Year	Beaumaris 438	Riseholme 96	Bangor 35	Jodrell Bank 337	Gleadthorpe 257	Sherwood Forest 439	Matlock 279	Gibraltar Point 223	Empingham 280	Shardlow 378	Sutton Bonington 168	Terrington 381
Abraxas grossulariata	1982	116	—	0	1	0	0	31	0	9	2	1	0
Magpie Moth	1983	130	3	1	1	0	0	41	0	21	3	5	1
Agrotis segetum	1982	0	—	0	0	1	0	0	0	0	1	5	1
Turnip Moth	1983	2	3	1	0	5	1	0	0	3	2	2	2
Erannis defoliaria	1982	2	—	0	75	3	35	0	0	0	0	4	0
Mottled Umber	1983	1	8	0	112	3	17	0	0	2	1	3	0
Phlogophora meticulosa	1982	6	—	0	0	6	3	1	14	4	4	3	17
Angle Shades	1983	2	3	1	3	4	6	7	9	15	3	5	12
Alsophila aescularia	1982	17	—	0	33	3	—	0	0	5	1	6	1
March Moth	1983	14	6	0	17	15	18	5	5	1	7	5	0
Hepialus humuli	1982	3	—	0	0	0	0	0	0	0	0	1	1
Ghost Swift	1983	1	0	0	1	0	0	0	1	2	0	0	0
Hepialus lupulina	1982	11	—	0	3	31	0	6	22	101	5	106	20
Common Swift	1983	3	2	0	1	18	0	1	6	31	6	51	18
Agrotis ipsilon	1982	1	—	1	0	0	0	0	0	0	0	0	0
Dark Sword Grass	1983	5	0	0	0	1	0	1	0	1	0	1	0
Euproctis chrysorrhoea	1982	0	—	0	0	0	0	0	0	0	0	0	0
Brown-tail	1983	0	0	0	0	0	0	0	0	0	0	0	0
Agrotis exclamationis	1982	31	—	1	14	30	4	11	43	61	155	352	5
Heart and Dart	1983	11	36	1	9	89	2	30	38	52	155	154	15
Plusia gamma	1982	52	—	1	17	2	9	30	81	69	29	15	4
Silver Y	1983	93	21	5	6	5	8	15	47	47	20	4	14
Laphygma exigua	1982	0	—	0	0	0	0	0	0	0	0	0	0
Small Mottled Willow	1983	0	0	0	0	0	0	0	0	0	0	0	0
Nycterosea obstipata	1982	0	—	0	0	0	0	0	0	0	0	0	0
The Gem	1983	0	0	0	0	0	0	0	0	0	0	0	0
Nomophila noctuella	1982	5	—	0	0	0	0	0	0	0	0	0	0
Rush Veneer Pearl	1983	7	0	0	0	0	0	0	0	0	0	0	0
Plutella maculipennis	1982	489	—	18	0	175	20	55	0	104	264	96	79
Diamond-back Moth	1983	89	0	8	0	17	10	22	0	73	343	0	412
Udea ferrugalis	1982	4	—	0	0	0	0	0	0	0	0	0	0
Rusty Dot Pearl	1983	5	0	0	0	0	3	0	0	0	0	0	0

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Compton Park	Wolverhampton	Santon Downham	Aberystwyth	Monks Wood	Monks Wood (Ewingswode)	Broom's Barn	Tregaron	Llysdinam	Luddington	Aberporth	Cockayne Hatley	Year	Pest Species
424	267	259	340	94	277	88	331	111	414	440	336		
0	0	0	10	5	76	0	90	2	3	46	4	1982	*Abraxas grossulariata*
0	0	0	14	8	103	0	91	4	1	22	5	1983	Magpie Moth
0	0	0	0	0	3	7	3	0	6	2	6	1982	*Agrotis segetum*
0	0	0	0	0	5	1	0	0	1	0	6	1983	Turnip Moth
0	0	1	6	2	209	2	169	83	2	0	0	1982	*Erannis defoliaria*
0	0	5	2	0	—	0	122	35	0	0	1	1983	Mottled Umber
0	0	14	2	1	42	6	10	1	4	4	2	1982	*Phlogophora meticulosa*
1	0	4	3	4	18	0	12	5	1	4	0	1983	Angle Shades
0	0	4	5	3	30	4	129	31	2	0	1	1982	*Alsophila aescularia*
2	0	11	6	2	31	1	92	—	3	2	2	1983	March Moth
1	0	1	1	0	0	0	0	4	0	9	0	1982	*Hepialus humuli*
3	0	3	5	0	0	0	1	2	1	7	1	1983	Ghost Swift
2	0	0	1	26	120	6	1	0	10	8	26	1982	*Hepialus lupulina*
1	0	2	0	7	27	1	0	0	0	17	1	1983	Common Swift
0	0	0	0	0	0	0	3	0	0	1	0	1982	*Agrotis ipsilon*
1	0	0	0	1	0	0	23	4	0	2	0	1983	Dark Sword Grass
0	0	0	0	0	0	0	0	0	0	0	0	1982	*Euproctis chrysorrhoea*
0	0	0	0	0	0	0	0	0	0	0	0	1983	Brown-tail
167	11	6	30	67	22	20	36	160	265	12	43	1982	*Agrotis exclamationis*
156	8	13	2	5	6	12	11	8	35	23	13	1983	Heart and Dart
24	5	22	68	30	26	17	60	21	3	80	38	1982	*Plusia gamma*
10	2	20	42	7	10	2	63	32	7	42	17	1983	Silver Y
0	0	0	0	0	0	0	0	0	0	0	0	1982	*Laphygma exigua*
0	0	0	0	0	0	0	0	0	0	0	0	1983	Small Mottled Willow
0	0	0	0	0	0	0	1	0	0	0	0	1982	*Nycterosea obstipata*
0	0	0	1	0	0	0	0	0	1	0	0	1983	The Gem
0	0	0	—	1	0	0	—	—	0	0	0	1982	*Nomophila noctuella*
0	0	0	—	1	0	1	—	—	0	—	3	1983	Rush Veneer Pearl
0	0	2	—	307	1	13	—	—	263	0	402	1982	*Plutella maculipennis*
0	0	3	—	144	4	0	—	—	66	—	873	1983	Diamond-back Moth
0	0	0	—	0	0	1	—	—	0	0	0	1982	*Udea ferrugalis*
0	0	1	—	1	2	0	—	—	0	—	0	1983	Rusty Dot Pearl

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TABLE

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Pest Species	Year	Hereford 212	Evesham 444	Rhandirmwyn 346	Trelech 233	Halstead 436	Eaton Bray 412	Rothamsted (Barnfield) 1	Rothamsted (Allotments) 34	Rothamsted (Geescroft) 22	Westonbirt 292	Cardiff 347	Sheppey 370
Abraxas grossulariata	1982	14	—	9	221	55	92	3	0	51	4	3	1
Magpie Moth	1983	8	0	14	99	49	130	7	1	15	1	0	2
Agrotis segetum	1982	0	—	0	1	0	1	4	0	3	1	0	1
Turnip Moth	1983	0	2	0	3	3	2	0	0	2	3	0	0
Erannis defoliaria	1982	2	—	393	13	1	4	1	1	76	77	0	0
Mottled Umber	1983	2	0	157	3	1	2	0	1	75	55	0	1
Phlogophora meticulosa	1982	10	—	14	13	9	0	5	3	20	19	2	1
Angle Shades	1983	1	0	13	14	5	3	0	0	11	18	5	7
Alsophila aescularia	1982	8	—	34	20	3	5	0	1	31	9	0	0
March Moth	1983	10	3	13	23	1	5	2	0	21	15	0	2
Hepialus humuli	1982	1	—	0	0	9	1	0	10	0	1	0	0
Ghost Swift	1983	0	16	0	1	3	4	2	9	4	2	0	0
Hepialus lupulina	1982	0	—	0	0	111	29	36	23	14	3	21	7
Common Swift	1983	1	1	0	0	22	4	34	10	5	5	19	2
Agrotis ipsilon	1982	0	—	0	0	0	0	0	0	0	5	0	0
Dark Sword Grass	1983	0	0	3	8	1	0	0	0	0	12	0	0
Euproctis chrysorrhoea	1982	0	—	0	0	0	0	0	0	0	0	0	1
Brown-tail	1983	0	0	0	0	0	0	0	0	0	0	0	3
Agrotis exclamationis	1982	167	—	14	38	15	82	91	22	98	51	38	42
Heart and Dart	1983	27	112	5	1	8	110	30	10	28	8	12	46
Plusia gamma	1982	9	—	32	18	11	21	40	13	13	57	55	68
Silver Y	1983	5	2	41	28	3	8	20	5	7	17	34	39
Laphygma exigua	1982	0	—	0	0	0	0	0	0	0	0	0	0
Small Mottled Willow	1983	0	0	0	0	0	0	0	0	0	0	0	0
Nycterosea obstipata	1982	0	—	0	0	0	0	0	0	0	0	0	0
The Gem	1983	0	0	0	0	0	0	0	0	0	0	0	0
Nomophila noctuella	1982	0	—	0	0	0	—	1	0	0	2	0	0
Rush Veneer Pearl	1983	5	2	14	0	2	—	4	0	2	8	0	0
Plutella maculipennis	1982	479	—	0	0	18	—	800	1034	3	2	149	317
Diamond-back Moth	1983	140	59	0	0	4	—	513	301	1	0	49	340
Udea ferrugalis	1982	2	—	5	0	1	—	0	0	1	0	0	0
Rusty Dot Pearl	1983	7	2	7	0	0	—	1	1	0	2	0	0

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Stratfield Mortimer	Wisley	Alice Holt	Haslemere	Winchester	Lydd	Denny Lodge	Starcross	Yarner Wood	Rosewarne	Guernsey	Jersey	Year	Pest Species
16	289	46	219	379	366	368	149	266	114	252	146		
27	0	0	0	34	0	0	2	1	10	20	0	1982	*Abraxas grossulariata*
10	0	0	0	46	0	0	5	0	8	13	3	1983	Magpie Moth
0	0	7	1	0	0	0	1	2	7	2	3	1982	*Agrotis segetum*
0	4	0	0	0	0	0	0	11	2	4	1	1983	Turnip Moth
56	35	51	7	0	0	47	—	60	0	0	0	1982	*Erannis defoliaria*
35	12	40	4	0	0	35	0	13	0	0	0	1983	Mottled Umber
1	1	4	7	9	0	3	3	12	5	0	2	1982	*Phlogophora meticulosa*
3	1	2	3	2	1	2	1	10	0	2	2	1983	Angle Shades
10	18	19	5	4	0	9	1	46	1	0	15	1982	*Alsophila aescularia*
21	14	30	4	1	0	5	0	56	5	0	10	1983	March Moth
0	1	5	0	1	1	0	3	0	0	0	0	1982	*Hepialus humuli*
3	0	2	0	3	1	0	10	1	5	0	0	1983	Ghost Swift
18	20	12	2	11	37	0	5	1	1	0	0	1982	*Hepialus lupulina*
3	3	1	0	11	58	0	2	0	0	0	0	1983	Common Swift
0	0	1	0	1	0	1	0	7	3	0	1	1982	*Agrotis ipsilon*
0	0	0	0	1	0	2	1	9	2	0	0	1983	Dark Sword Grass
0	0	0	0	0	79	0	0	0	0	2	0	1982	*Euproctis chrysorrhoea*
0	1	0	0	0	218	13	0	0	0	3	5	1983	Brown-tail
48	51	78	102	33	55	13	51	152	173	21	36	1982	*Agrotis exclamationis*
14	15	19	14	54	16	4	18	26	55	18	11	1983	Heart and Dart
23	23	35	27	46	38	2	27	162	85	13	22	1982	*Plusia gamma*
4	17	28	16	38	4	3	20	73	47	9	10	1983	Silver Y
0	0	0	0	0	0	0	0	0	7	0	0	1982	*Laphygma exigua*
0	0	0	0	0	0	1	0	0	0	0	0	1983	Small Mottled Willow
0	1	0	0	0	0	0	2	5	3	0	1	1982	*Nycterosea obstipata*
0	0	0	0	0	0	2	0	9	0	1	0	1983	The Gem
0	0	2	0	0	0	—	4	—	45	5	31	1982	*Nomophila noctuella*
5	29	35	3	2	0	—	51	—	145	73	48	1983	Rush Veneer Pearl
4	945	169	77	0	0	—	420	—	2453	551	359	1982	*Plutella maculipennis*
4	484	69	44	3	0	—	145	—	2208	494	589	1983	Diamond-back Moth
0	1	7	2	0	0	—	16	—	95	11	36	1982	*Udea ferrugalis*
1	34	15	3	3	0	—	48	—	73	300	80	1983	Rusty Dot Pearl

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