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ROTHAMSTED
RESEARCH

Rothamsted Experimental Station Report for 1985

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Rothamsted Insect Survey, Seventeenth Annual Summary

I. P. Woiwod, G. M. Tatchell, M. J. Dupuch, E. D. M. Macaulay, S. J. Parker and M. S. Taylor

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Rothamsted Insect Survey

Seventeenth annual summary

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Suction traps 1985

Samples were collected daily from 8 April to 10 November 1985, and weekly for the remainder of the year. These data were included in the *Aphid Bulletin*, which was issued weekly from 22 April (Bulletin No. 1) to 17 November (Bulletin No. 30). The 33 aphid taxa listed in Table 1 (a–h) are those in the *Aphid Bulletin*. The *Aphid Commentary* was issued with the *Aphid Bulletin* on 18 occasions during 1985. This provided regional interpretation of current trap samples for ten of the aphid pests of cereals, potatoes, sugar beet, field beans, carrots, peas and apples.

The *Aphid Bulletin* and *Commentary*, despatched each Friday, provide information on aphids sampled between five and 12 days earlier. This timing is dictated by the postal services.

The *Aphid Bulletin* and *Aphid Commentary* 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). *Aphid Bulletin* and standard weeks do not correspond in 1985.

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

The trap at (927) Belfast was operated and insect samples sorted by Dr A. C. Bell and colleagues of the Department of Agriculture for Northern Ireland.

The trap at (911) Aberystwyth is now operated by kind permission of the Welsh Plant Breeding Station, by Mr K. Vincent.

The trap at (914) Long Ashton I was moved to an adjacent site (936) Long Ashton II on 16 April 1985. The data in the *Aphid Bulletin* and Table 1 are for the new Long Ashton site (936).

The trap at Rainham no longer operates.

A new trap at (937) Headley Hall, Tadcaster began operation on 5 August 1985. The results from this trap do not appear in Table 1 nor did they appear in the *Aphid Bulletin* during 1985.

Suction traps sampling at 5 ft (1.5 m) were operating at (954) East Craigs, (956) Ingraston and (951) Rothamsted Tower in 1985. Records for these do not appear in Table 1 nor did they appear in the *Aphid Bulletins*.

Sample volumes were halved at various sites as follows: (922) Preston, (919) Shardlow, (917) Hereford, (924) Writtle, (936) Long Ashton and (908) Silwood Park from 11 July to 10 November, (901) Rothamsted Tower from 15 July to 27 August, (903) Wye from 17 July to 4 September, (904) Broom's Barn from 25 to 29 July, from 28 to 30 September and from 18 to 22 October, (933) Littlehampton and (913) Starcross from 1 August to 4 September and (934) Kirton from 1 August to 5 September. 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.

Aphid samples were identified at Rothamsted by Maureen Dupuch, Mark Taylor, Susan Parker, Debbie Riley, Veronica French and Caroline Mitchell; at East Craigs by Mrs

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L. A. D. Turl, Dr K. F. A. Walters and Mr F. G. Doyle of DAFS; and at Broom's Barn by Dr A. M. Dewar and Mr W. A. Thornhill. We appreciate their cooperation in providing information for the weekly *Aphid Bulletin* and *Aphid Commentary* and for Table 1.

During 1985 aphid migration began later than in 1984, especially for cereal aphids. Numbers of migrant willow-carrot aphids (*Cavariella aegopodii*) were large during late June and early July, as were those of the pea aphid (*Acyrtosiphon pisum*) during the latter part of July. ADAS reports indicate that the pea aphid caused measurable yield losses on peas in 1985.

In the warm dry autumn, following a wet summer, alate bird-cherry aphids (*Rhopalosiphum padi*) and apple-grass aphids (*R. insertum*) were recorded in exceptionally large numbers. The consequences of the large *R. padi* numbers for the infection of autumn-sown cereals with barley yellow dwarf virus cannot be assessed fully until the spring of 1986.

The numbers of migrant cabbage aphid (*Brevicoryne brassicae*) remained low throughout 1985, in contrast to 1984.

Light traps

Table 2 (a-f) gives the annual catches during 1983 and 1984 of the same pest, or migratory Lepidoptera as in previous years. For the first time the current Kloet & Hincks (1972) scientific names are used rather than those of South (1964). Sixty-two sites completed the 364-day sample for 1984.

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.

Records of migrant Lepidoptera were sent to Bretherton and Chalmers-Hunt who reported 1984 to be a poor year for migrants, particularly in comparison with 1983 which was exceptional for some species (Bretherton & Chalmers-Hunt, 1985). This paucity of migrant species is reflected in the totals of the known migrant species in Table 2; *Agrotis ipsilon*, *Autographa gamma*, *Orthonama obstipata*, *Nomophila noctuella*, *Plutella xylostella* and *Udea ferrugalis*.

The other notable species in Table 2 is *Agrotis exclamationis* where there was a marked increase between 1983 and 1984 throughout nearly all of Great Britain. A general increase on such a scale is unusual except for migrant species. *Agrotis exclamationis* is not usually considered as migrant although it might be under certain circumstances. It will be interesting to see if these increased populations are maintained in 1985.

Other records of interest from the light trap survey continue to be published regularly. Three mentioned in last year's report, an unusual form of *Diaphora mendica*, the second British record for the Oak Processionary moth, *Thaumetopoea processionea*, and new county records for Peebleshire, *Eupithecia distinctaria* and *Deileptenia ribeata* have now been published (Riley 1985a, 1985b and 1985c). Four new records of an interesting Neuroptera, *Drepanopteryx phalaenoides* found in light traps from Berkshire, Hertfordshire and Huntingdonshire have been published in Riley (1985d).

As always we are indebted to the many people who voluntarily run and identify many of the light trap samples. The identification at Rothamsted has been carried out by Joan Nicklen and Adrian Riley.

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- RILEY, A. M. (1985b) *Thaumetopoea processionea* L. (the Oak Processionary Moth) on Guernsey. *Entomologist's Record* **97**, 110–111.
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- RILEY, A. M. (1985d) Some recent records of *Drepanopteryx phalaenoides* (L.) (Neuroptera: Hemerobiidae) from Rothamsted Insect Survey light traps. *Entomologist's Gazette* **36**, 236.

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 17 to 20—

Species	Sites										
	Elgin (916)	Dundee (907)	Edinburgh (912)	Pathhead (931)	Auchincruive (923)	Newcastle (906)	Belfast (927)	High Mowthorpe (905)	Preston (922)	Kirtton (934)	Shardlow (919)
<i>Acyrtosiphon pisum</i>											
<i>Amphorophora rubi</i>											
<i>Aphis fabae</i> grp.											
<i>Aphis</i> spp.											
<i>Aulacorthum solani</i>										1	1
<i>Brachycaudus helichrysi</i>											
<i>Brevicoryne brassicae</i>											
<i>Cavariella aegopodii</i>							1				
<i>Cinara</i> spp.											
<i>Drepanosiphum platanoidis</i>		16	17		2	1	74	7	13	7	233
<i>Dysaphis plantaginea</i>											
<i>Elatobium abietinum</i>	4	2	2	2	3		13	1	5		1
<i>Eriosoma ulmi</i>											
<i>Hyalopterus pruni</i>											
<i>Hyperomyzus lactucae</i>											
<i>Macrosiphum euphorbiae</i>			1								1
<i>Megoura viciae</i>											
<i>Metopolophium dirhodum</i>							1			2	
<i>Metopolophium festucae</i> s.l.							4				
<i>Myzus ascalonicus</i>			1				20			1	2
<i>Myzus certus</i>											
<i>Myzus ornatus</i>	1						1				
<i>Myzus persicae</i> grp.											
<i>Nasonovia ribisnigri</i>											
<i>Pemphigus</i> spp.											
<i>Pentatrichopus fragaefolii</i>											
<i>Phorodon humuli</i>											
<i>Phyllaphis fagi</i>											
<i>Rhopalosiphum insertum</i>											
<i>Rhopalosiphum maidis</i>											
<i>Rhopalosiphum padi</i>									1		
<i>Sitobion avenae</i>											
<i>Sitobion fragariae</i>							2				
First aphid caught	May 13	May 16	May 6	May 16	May 17	May 16	May 8	May 15	April 10	May 5	May 10

Wye 4–10 February, 1 *Rhopalosiphum maidis*
 Preston 10 April, 1 *Myzus persicae*
 Wye 15 April, 1 *Rhopalosiphum insertum*
 Long Ashton II 16 April, 1 *Myzus ascalonicus*
 Starcross 22 April, 1 *Myzus ascalonicus*

ROTHAMSTED INSECT SURVEY

1(a)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1985
23 April to 20 May 1985

											Sites
Aberystwyth (911)	Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Long Ashton II (936)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)	
											Species
1				1		2			2		<i>Acyrtosiphon pisum</i>
					1	2					<i>Amphorophora rubi</i>
			2	2					1		<i>Aphis fabae</i> grp.
			1								<i>Aphis</i> spp.
			2		7	1			15	2	<i>Aulacorthum solani</i>
			1						1		<i>Brachycaudus helichrysi</i>
	4	1	2		1	28		2	6		<i>Brevicoryne brassicae</i>
				1		1					<i>Cavariella aegopodii</i>
5	1050	180	1447	26	396	844	322	114	64	1	<i>Cinara</i> spp.
											<i>Drepanosiphum platanoidis</i>
											<i>Dysaphis plantaginea</i>
289	7	32	39	8	23	176	3	2	40	84	<i>Elatobium abietinum</i>
											<i>Eriosoma ulmi</i>
			2		1						<i>Hyalopterus pruni</i>
			1		3	3			2		<i>Hyperomyzus lactucae</i>
											<i>Macrosiphum euphorbiae</i>
											<i>Megoura viciae</i>
1			1		1				5		<i>Metopolophium dirhodum</i>
									3	2	<i>Metopolophium festucae</i> s.l.
	1	1	5		7	12	1	3	5	1	<i>Myzus ascalonicus</i>
						1			1		<i>Myzus certus</i>
											<i>Myzus ornatus</i>
					1					1	<i>Myzus persicae</i> grp.
			1		1						<i>Nasonovia ribisnigri</i>
											<i>Pemphigus</i> spp.
											<i>Pentatrichopus fragaefolii</i>
											<i>Phorodon humuli</i>
			3	1	2	6		2			<i>Phyllaphis fagi</i>
											<i>Rhopalosiphum insertum</i>
2	1		1	1	3	1		1	2		<i>Rhopalosiphum maidis</i>
				1		2					<i>Rhopalosiphum padi</i>
1					1						<i>Sitobion avenae</i>
					1						<i>Sitobion fragariae</i>
April 24	May 15	May 15	May 4	May 13	April 16	April 30	Feb 4-10	May 15	April 22	May 4	First aphid caught

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

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)
<i>Acyrtosiphon pisum</i>							3				
<i>Amphorophora rubi</i>											3
<i>Aphis fabae</i> grp.							2				
<i>Aphis</i> spp.							1	1	2	1	18
<i>Aulacorthum solani</i>										2	3
<i>Brachycaudus helichrysi</i>	11	10	17	14	16		246		75	21	361
<i>Brevicoryne brassicae</i>											
<i>Cavariella aegopodii</i>	10	4	5		1		61	62	194	88	510
<i>Cinara</i> spp.											
<i>Drepanosiphum platanoidis</i>	279	657	1361	1155	243	1113	202	2624	297	222	3234
<i>Dysaphis plantaginea</i>											
<i>Elatobium abietinum</i>	111	72	46	42	62	49	129	39	54	2	14
<i>Eriosoma ulmi</i>											1
<i>Hyalopterus pruni</i>							3				1
<i>Hyperomyzus lactucae</i>	2	2	2	1	1	2	7	1	3	2	8
<i>Macrosiphum euphorbiae</i>			1	1			15		5	1	12
<i>Megoura viciae</i>											
<i>Metopolophium dirhodum</i>							6	1		1	3
<i>Metopolophium festucae</i> s.l.	1	1	3		1	4	38	3	2	4	4
<i>Myzus ascalonicus</i>	2		14	3	1	5	29	3	12	3	28
<i>Myzus certus</i>			1				1				1
<i>Myzus ornatus</i>			1	1	1		3				2
<i>Myzus persicae</i> grp.		1	2				1		2	1	
<i>Nasonovia ribisnigri</i>							2			2	12
<i>Pemphigus</i> spp.											
<i>Pentatrachopus fragaefolii</i>											
<i>Phorodon humuli</i>							1	1		5	81
<i>Phyllaphis fagi</i>	8	11	6	7	2	3	2	1	4	1	8
<i>Rhopalosiphum insertum</i>						3	30		12	19	33
<i>Rhopalosiphum maidis</i>			1			1					
<i>Rhopalosiphum padi</i>	2	5	19	5	15	2	3	2	14	7	16
<i>Sitobion avenae</i>							14		1	3	14
<i>Sitobion fragariae</i>			1	1			17		5	2	30

ROTHAMSTED INSECT SURVEY

1(b)

of aphids of economic, or other, interest reported in the Weekly Bulletin, 1985
21 May to 17 June 1985

											Sites
Aberystwyth (911)	Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Long Ashton II (936)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)	Species
		1	5	5	2	3			9	1	<i>Acyrtosiphon pisum</i>
		2	1		1	1	1		2		<i>Amphorophora rubi</i>
	7	3	3	4	6	15	3	3	1	1	<i>Aphis fabae</i> grp.
5	4	6	4	15	24	44	2	5	8	1	<i>Aphis</i> spp.
			1		2	1			2	1	<i>Aulacorthum solani</i>
159	25	439	559	519	376	267	37	89	325	28	<i>Brachycaudus helichrysi</i>
									2	1	<i>Brevicoryne brassicae</i>
23	544	447	357	446	569	875	154	167	269	23	<i>Cavariella aegopodii</i>
	2			2	2	1	1				<i>Cinara</i> spp.
170	762	185	1547	209	265	882	130	147	37	8	<i>Drepanosiphum platanoidis</i>
				1	2			4	1		<i>Dysaphis plantaginea</i>
602	21	101	128	33	25	167	27	5	38	18	<i>Elatobium abietinum</i>
		36	1		9	21	9	4	1		<i>Eriosoma ulmi</i>
	1			2	1			2	3		<i>Hyalopterus pruni</i>
6		2	13	10	4	7	1	2	2		<i>Hyperomyzus lactucae</i>
1		2	5	7	7	3	7	2	3	3	<i>Macrosiphum euphorbiae</i>
											<i>Megoura viciae</i>
1	2	6	1	13	23	4	14	6	41	10	<i>Metopolophium dirhodum</i>
6	1	11	3	5	14	2	4	8	19	6	<i>Metopolophium festucae</i> s.l.
2	11	2	13	15	3	8	2	1	4	3	<i>Myzus ascalonicus</i>
		1			1						<i>Myzus certus</i>
											<i>Myzus ornatus</i>
2	1		2	1	4	1		1	2	2	<i>Myzus persicae</i> grp.
		1	4	2		4				1	<i>Nasonovia ribisnigri</i>
											<i>Pemphigus</i> spp.
											<i>Pentatrichopus fragaefolii</i>
5	7	283	45	160	96	103	75	6	54		<i>Phorodon humuli</i>
2	1	3	4	5	3	18	2	1	6		<i>Phyllaphis fagi</i>
12	27	9	44	39	14	19	7	6	15	2	<i>Rhopalosiphum insertum</i>
1		1	1	5	6		1	8	11	1	<i>Rhopalosiphum maidis</i>
1	4	2	23	8	25	11	5	5	11	10	<i>Rhopalosiphum padi</i>
8	9	7	14	29	31	22	18	14	48	12	<i>Sitobion avenae</i>
2	9	13	10	17	17	26	6	5	32	10	<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1985, PART 2

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)
<i>Acyrtosiphon pisum</i>		4	2	4		5	10	58	27	176	117
<i>Amphorophora rubi</i>	1	10				2	4	2	3		7
<i>Aphis fabae</i> grp.	1						2	8	3	18	30
<i>Aphis</i> spp.			8	1	3	1	17	4	32	38	153
<i>Aulacorthum solani</i>			1				3		2		5
<i>Brachycaudus helichrysi</i>	11	11	17	38	41	39	195	105	126	70	515
<i>Brevicoryne brassicae</i>			2				1				
<i>Cavariella aegopodii</i>	73	13	17	7	17	50	98	189	529	317	1492
<i>Cinara</i> spp.		3	1	4	9	7	3	3	6	3	14
<i>Drepanosiphum platanoidis</i>	87	207	158	165	140	309	35	94	595	14	214
<i>Dysaphis plantaginea</i>									4	5	1
<i>Elatobium abietinum</i>	39	22	18	29	33	23	7	6	26		
<i>Eriosoma ulmi</i>		49	5	3	9	18	11	4	34	2	41
<i>Hyalopterus pruni</i>		22	5	9	18	8	20	104	194	158	494
<i>Hyperomyzus lactucae</i>	1			3			10	1	6	6	17
<i>Macrosiphum euphorbiae</i>	3	1	15	3	8	3	12	1	8	11	17
<i>Megoura viciae</i>									2		
<i>Metopolophium dirhodum</i>	3	2	9	4	6	13	28	90	157	480	1051
<i>Metopolophium festucae</i> s.l.	12		22	28	10	59	23	109	34	32	13
<i>Myzus ascalonicus</i>			3	1	2		4	2	2	1	1
<i>Myzus certus</i>			2	1	1		3		3		5
<i>Myzus ornatus</i>					2	1	4				3
<i>Myzus persicae</i> grp.					1		3	1	4	10	12
<i>Nasonovia ribisnigri</i>							5	1			3
<i>Pemphigus</i> spp.			2				1	8	11	25	39
<i>Pentatrichopus fragaefolii</i>											
<i>Phorodon humuli</i>								24	13	117	387
<i>Phyllaphis fagi</i>	20	25	37	54	7	23	7	6	49	1	30
<i>Rhopalosiphum insertum</i>			1	1	2	5	12	3	7	35	8
<i>Rhopalosiphum maidis</i>	1	1	2		1	2	4	6	6	27	2
<i>Rhopalosiphum padi</i>	3	10	9	2	8	6	3	44	1	295	86
<i>Sitobion avenae</i>	7	1	12	4	20	9	75	166	154	1673	885
<i>Sitobion fragariae</i>	2		4	2	2	16	34	14	24	17	72

ROTHAMSTED INSECT SURVEY

1(c)

of aphids of economic, or other, interest reported in the Weekly Bulletin, 1985
18 June to 15 July 1985

											Sites	Species
Aberystwyth (911)	Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Long Ashton II (936)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)		
10	244	27	78	191	47	42	410	107	344	20		<i>Acyrtosiphon pisum</i>
	2	6	5	3	2	1	4	1	5	1		<i>Amphorophora rubi</i>
2	37	4	16	26	14	5	24	33	6			<i>Aphis fabae</i> grp.
14	12	21	65	65	161	126	120	66	37	11		<i>Aphis</i> spp.
	3	1	2			2			3	3		<i>Aulacorthum solani</i>
45	96	141	253	137	149	67	68	48	112	16		<i>Brachycaudus helichrysi</i>
	3	1	1	5	1	2			52	1		<i>Brevicoryne brassicae</i>
45	566	360	371	368	194	330	310	80	177	14		<i>Cavariella aegopodii</i>
7	4		7	7	3	5		2	3			<i>Cinara</i> spp.
48	64	21	97	28	32	134	17	17	5	16		<i>Drepanosiphum platanoidis</i>
2	5	1	6	9	3	8	10	2	1			<i>Dysaphis plantaginea</i>
18	2	4	3	2		1	2					<i>Elatobium abietinum</i>
7	8	47	8	11	7	7	23		1	1		<i>Eriosoma ulmi</i>
8	228	84	365	738	142	305	373	36	52	3		<i>Hyalopterus pruni</i>
5	10	12	11	16	20	3	43	8	11	1		<i>Hyperomyzus lactucae</i>
2	8	4	11	24	15	2	28	13	38	12		<i>Macrosiphum euphorbiae</i>
				4								<i>Megoura viciae</i>
36	1099	115	472	391	298	208	760	477	445	67		<i>Metopolophium dirhodum</i>
4	25	15	7	9	19	3	17	16	13	7		<i>Metopolophium festucae</i> s.l.
		1			1	2	1		5	1		<i>Myzus ascalonicus</i>
			2	1	3	2	1					<i>Myzus certus</i>
				1		2	1	2				<i>Myzus ornatus</i>
	20	4	4	38	13	3	17	76	36	1		<i>Myzus persicae</i> grp.
2	1		2	1		3	2	3	6	2		<i>Nasonovia ribisnigri</i>
1	6	13	3	23	4	12	8	2	7			<i>Pemphigus</i> spp.
												<i>Pentatrachopus fragaefolii</i>
32	274	280	210	546	461	123	624	12	106			<i>Phorodon humuli</i>
2	3	3	26	6	17	31	1		7			<i>Phyllaphis fagi</i>
4	52	9	45	61	12	51	31	11	8	1		<i>Rhopalosiphum insertum</i>
4	4		6	6	18	6	17	15	6			<i>Rhopalosiphum maidis</i>
16	141	6	48	48	10	53	82	138	95	5		<i>Rhopalosiphum padi</i>
157	974	128	706	1041	691	787	763	648	1253	138		<i>Sitobion avenae</i>
9	37	30	54	91	32	42	26	23	112	8		<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1985, PART 2

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)
<i>Acyrtosiphon pisum</i>	41	237	59	344	8	118	11	97	132	646	370
<i>Amphorophora rubi</i>		3				1					
<i>Aphis fabae</i> grp.	8			1	3	4	10	28	68	236	220
<i>Aphis</i> spp.	4	8	8	2	4	7	23	25	50	217	332
<i>Aulacorthum solani</i>		1				2	2		2	10	2
<i>Brachycaudus helichrysi</i>	6	13	9	10	1	11	8	28	30	87	132
<i>Brevicoryne brassicae</i>				1							2
<i>Cavariella aegopodii</i>	20	11	3	4	3	6	19	32	28	68	126
<i>Cinara</i> spp.		4	26	9	30	3				2	6
<i>Drepanosiphum platanoidis</i>	23	79	49	32	11	269	7	12	158	1	148
<i>Dysaphis plantaginea</i>								4			
<i>Elatobium abietinum</i>							1				
<i>Eriosoma ulmi</i>		4	2	1	3				2		2
<i>Hyalopterus pruni</i>	19	28	6	3	10	6	33	58	120	262	808
<i>Hyperomyzus lactucae</i>		1	2	1	1	2	2	11	2	14	48
<i>Macrosiphum euphorbiae</i>	7	17	12	4	4	4	17	1	26	59	30
<i>Megoura viciae</i>											
<i>Metopolophium dirhodum</i>	62	231	156	91	28	341	29	643	120	1099	2710
<i>Metopolophium festucae</i> s.l.	49	25	16	93	32	12		33	20	21	8
<i>Myzus ascalonicus</i>											
<i>Myzus certus</i>							2	1			
<i>Myzus ornatus</i>		2									
<i>Myzus persicae</i> grp.	4	9	1	1	2	2	2	6	18	125	116
<i>Nasonovia ribisnigri</i>	2	1				1	2	1	2		2
<i>Pemphigus</i> spp.	1	3			1	4	2	2	4	13	48
<i>Pentatrichopus fragaefolii</i>				1			2				
<i>Phorodon humuli</i>		1				1	1	20	10	145	176
<i>Phyllaphis fagi</i>		1	3	1		1					
<i>Rhopalosiphum insertum</i>	8	6	2	7	17	3	33	26	44	246	264
<i>Rhopalosiphum maidis</i>			1		3	7	29	11	4	16	2
<i>Rhopalosiphum padi</i>	89	99	151	122	33	148	202	439	38	541	208
<i>Sitobion avenae</i>	103	188	211	264	97	344	661	1185	1324	7802	4414
<i>Sitobion fragariae</i>	1		1	1	2	19	40	38	50	86	202

ROTHAMSTED INSECT SURVEY

1(d)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1985
16 July to 12 August 1985

											Sites	Species
Aberystwyth (911)	Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Long Ashton II (936)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)		
12	692	26	84	166	14	16	76	73	59	14		<i>Acyrtosiphon pisum</i>
	1	4	2				2					<i>Amphorophora rubi</i>
3	1103	110	100	136	6	14	197	196	6			<i>Aphis fabae</i> grp.
12	311	86	148	292	18	96	198	566	38	9		<i>Aphis</i> spp.
	2	2		2			2		3	1		<i>Aulacorthum solani</i>
6	103	34	24	50	10	24	31	14	6	17		<i>Brachycaudus helichrysi</i>
	8	2	4	8		2	6	10	40			<i>Brevicoryne brassicae</i>
2	77	12	26	16	2	18	27	5	14	3		<i>Cavariella aegopodii</i>
		4						1	1			<i>Cinara</i> spp.
13	11	6	14	2	14	22	8	8	10	3		<i>Drepanosiphum platanoidis</i>
	2		2			4	2	3				<i>Dysaphis plantaginea</i>
		2		4								<i>Elatobium abietinum</i>
												<i>Eriosoma ulmi</i>
8	642	152	340	1026	86	214	719	102	38	10		<i>Hyalopterus pruni</i>
9	42	8	20	2	4	2	16	6	5			<i>Hyperomyzus lactucae</i>
13	54	12	14	52	2	4	59	20	25	3		<i>Macrosiphum euphorbiae</i>
				4								<i>Megoura viciae</i>
63	4224	152	574	476	48	82	660	195	181	3		<i>Metopolophium dirhodum</i>
7	17	8	4	2	8		2		6	4		<i>Metopolophium festucae</i> s.l.
												<i>Myzus ascalonicus</i>
												<i>Myzus certus</i>
						4						<i>Myzus ornatus</i>
5	186	18	50	288	18	8	86	136	14	3		<i>Myzus persicae</i> grp.
			4				2	3	5	1		<i>Nasonovia ribisnigri</i>
	1	2	2		2			1	3			<i>Pemphigus</i> spp.
												<i>Pentatrachopus fragaefolii</i>
6	457	66	104	404	64	26	325	2	17			<i>Phorodon humuli</i>
									1			<i>Phyllaphis fagi</i>
5	169	44	240	354	46	114	46	61	57	5		<i>Rhopalosiphum insertum</i>
4		4	4		8		4			4		<i>Rhopalosiphum maidis</i>
69	748	112	158	790	40	30	298	279	1958	47		<i>Rhopalosiphum padi</i>
564	5596	766	1812	3232	790	782	2460	1073	916	631		<i>Sitobion avenae</i>
11	94	142	90	98	22	62	67	8	53	17		<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1985, PART 2

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)
<i>Acyrtosiphon pisum</i>	12	171	35	56		29	5				4
<i>Amphorophora rubi</i>											
<i>Aphis fabae</i> grp.	87	6	7	3	24	47	44	11	34	28	16
<i>Aphis</i> spp.	4	3	4	4	1	24	6	11	34	13	42
<i>Aulacorthum solani</i>							1				2
<i>Brachycaudus helichrysi</i>	11	48	14	24	14	63	15	2	30	11	38
<i>Brevicoryne brassicae</i>											2
<i>Cavariella aegopodii</i>	11	17	1	2	3	3		1		2	
<i>Cinara</i> spp.	2		1		3						4
<i>Drepanosiphum platanoidis</i>	21	69	11	29	6	34	7	9	40	3	130
<i>Dysaphis plantaginea</i>									2		
<i>Elatobium abietinum</i>											
<i>Eriosoma ulmi</i>	6	2	3	1							4
<i>Hyalopterus pruni</i>	5	61	3	2	2	8	6	3	18	21	116
<i>Hyperomyzus lactucae</i>			1					1			
<i>Macrosiphum euphorbiae</i>	31	103	6	43	9	1	1				6
<i>Megoura viciae</i>	1										
<i>Metopolophium dirhodum</i>	14	155	64	72	4	33	1	25		2	10
<i>Metopolophium festucae</i> s.l.	4	8	6	20		1	2				
<i>Myzus ascalonicus</i>											
<i>Myzus certus</i>									2		
<i>Myzus ornatus</i>		1									
<i>Myzus persicae</i> grp.	2	10	7	5	1	2	3		4	4	
<i>Nasonovia ribisnigri</i>	2										
<i>Pemphigus</i> spp.	12	1	1	1	12	5	3	2	12	6	22
<i>Pentatrachopus fragaefolii</i>											
<i>Phorodon humuli</i>									2	2	4
<i>Phyllaphis fagi</i>	1								2		
<i>Rhopalosiphum insertum</i>	25	19	5	12	11	23	23	18	74	75	256
<i>Rhopalosiphum maidis</i>		1				1	1		2		
<i>Rhopalosiphum padi</i>	950	1526	771	574	971	729	1825	345	2422	287	1240
<i>Sitobion avenae</i>	126	88	150	231	18	62	12	67	4	42	82
<i>Sitobion fragariae</i>	3		2	7	1	13	1	1			6

ROTHAMSTED INSECT SURVEY

1(e)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1985
13 August to 9 September 1985

											Sites
Aberystwyth (911)	Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Long Ashton II (936)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)	Species
7		2		4	8					1	<i>Acyrtosiphon pisum</i>
20	26	12	1	4			1		4	6	<i>Amphorophora rubi</i>
17	13	2	4	14	10	12	15	3	1	4	<i>Aphis fabae</i> grp.
					4						<i>Aphis</i> spp.
34	16	30	108	2	8	2	60	30	17	4	<i>Aulacorthum solani</i>
			2						3	1	<i>Brachycaudus helichrysi</i>
2	1			2					1	1	<i>Brevicoryne brassicae</i>
	1				2						<i>Cavariella aegopodii</i>
12	6	2	13	4	14	66	9	2		2	<i>Cinara</i> spp.
	2										<i>Drepanosiphum platanoidis</i>
						2					<i>Dysaphis plantaginea</i>
											<i>Elatobium abietinum</i>
4	87	6	20	72	12	14	34	18	14	4	<i>Eriosoma ulmi</i>
4											<i>Hyalopterus pruni</i>
2							2	1			<i>Hyperomyzus lactucae</i>
										1	<i>Macrosiphum euphorbiae</i>
8	3					2					<i>Megoura viciae</i>
4						2	2		2		<i>Metopolophium dirhodum</i>
											<i>Metopolophium festucae</i> s.l.
1										1	<i>Myzus ascalonicus</i>
											<i>Myzus certus</i>
3	3	20	2	10	2		12	1	3		<i>Myzus ornatus</i>
1								1			<i>Myzus persicae</i> grp.
86	8	8	10	14	10	6	6	7	4	3	<i>Nasonovia ribisnigri</i>
											<i>Pemphigus</i> spp.
	2	4	4	2			91		2		<i>Pentatrichopus fragaefolii</i>
											<i>Phorodon humuli</i>
14	138	54	113	142	42	94	47	34	24	16	<i>Phyllaphis fagi</i>
			2			2			2	1	<i>Rhopalosiphum insertum</i>
469	346	358	101	120	382	136	289	100	145	104	<i>Rhopalosiphum maidis</i>
19	15	38	10	16	22	12	9	3	16	6	<i>Rhopalosiphum padi</i>
2	1	6	2		6		2			2	<i>Sitobion avenae</i>
											<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1985, PART 2

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)
<i>Acyrtosiphon pisum</i>		4				1		1			2
<i>Amphorophora rubi</i>		1									
<i>Aphis fabae</i> grp.	9	8	4	20	8	111	23	11	30	40	66
<i>Aphis</i> spp.		3		5		61	8	23	66	58	68
<i>Aulacorthum solani</i>		1					1		4		
<i>Brachycaudus helichrysi</i>	56	90	21	45	9	265	29	33	54	64	64
<i>Brevicoryne brassicae</i>									4	2	10
<i>Cavariella aegopodii</i>	20	20		24		3		6	4	3	
<i>Cinara</i> spp.	1	2									
<i>Drepanosiphum platanoidis</i>	47	110	24	38	8	59	72	24	202	3	12
<i>Dysaphis plantaginea</i>								3		1	16
<i>Elatobium abietinum</i>											
<i>Eriosoma ulmi</i>	5	15		1		5	6	1	2	10	28
<i>Hyalopterus pruni</i>	10	21	2		1	5		1		15	6
<i>Hyperomyzus lactucae</i>	1	1		5				3	8	4	22
<i>Macrosiphum euphorbiae</i>	2	13	2	1							18
<i>Megoura viciae</i>											
<i>Metopolophium dirhodum</i>	47	120	24	61	19	38	12	2	22		12
<i>Metopolophium festucae s.l.</i>	4	17		6	1					3	
<i>Myzus ascalonicus</i>											
<i>Myzus certus</i>											
<i>Myzus ornatus</i>	1	5									
<i>Myzus persicae</i> grp.	1	20	4	3	1		1	13	12	20	22
<i>Nasonovia ribisnigri</i>	4		2	1			4	6		3	2
<i>Pemphigus</i> spp.	416	114	94	141	225	153	31	47	84	157	258
<i>Pentatrichopus fragaefolii</i>											
<i>Phorodon humuli</i>											
<i>Phyllaphis fagi</i>	2	3	1	1	1			1			
<i>Rhopalosiphum insertum</i>	626	495	198	451	263	813	1299	1408	3884	2195	10640
<i>Rhopalosiphum maidis</i>		2					6	1			
<i>Rhopalosiphum padi</i>	14758	52230	14108	14462	10778	20336	29889	4163	26194	3527	32434
<i>Sitobion avenae</i>	39	43	17	44	5	11	5	3	6	10	6
<i>Sitobion fragariae</i>	38	6	3	5	5	5	4	2	14	2	12

ROTHAMSTED INSECT SURVEY

1(f)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1985
10 September to 7 October 1985

										Sites	Species	
Aberystwyth (911)	Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Long Ashton II (936)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)		
4	3	4	4	4	8		1	6				<i>Acyrtosiphon pisum</i>
1												<i>Amphorophora rubi</i>
128	8	26		4	16		20	20	3	6		<i>Aphis fabae</i> grp.
129	5	20	5	30	46	18	29	17	10	12		<i>Aphis</i> spp.
		2		2	2			1				<i>Aulacorthum solani</i>
73	225	46	360	48	32	68	312	120	51	17		<i>Brachycaudus helichrysi</i>
	2	16	7	18			9	2	2	1		<i>Brevicoryne brassicae</i>
9	1	2	1	2	4	6	9	8	1			<i>Cavariella aegopodii</i>
			1		4			1	2	1		<i>Cinara</i> spp.
6	2	8	3	8	6	4	2	46	5	122		<i>Drepanosiphum platanoidis</i>
1	7		4			4			2			<i>Dysaphis plantaginea</i>
												<i>Elatobium abietinum</i>
			8		4	4	9	2				<i>Eriosoma ulmi</i>
2	5	12	2	2	8	54	15	18	4	2		<i>Hyalopterus pruni</i>
15	2	2	5	2	20	2	5	5	3	1		<i>Hyperomyzus lactucae</i>
5		8	7	12	4	2	2	3				<i>Macrosiphum euphorbiae</i>
												<i>Megoura viciae</i>
33	1	2	1	6	10	2	14	32	2	2		<i>Metopolophium dirhodum</i>
1									3			<i>Metopolophium festucae</i> s.l.
								1				<i>Myzus ascalonicus</i>
1		2						1				<i>Myzus certus</i>
												<i>Myzus ornatus</i>
9	8	4	4	30	42	2	75	41	12	3		<i>Myzus persicae</i> grp.
9	2	4	3	2	6	6	8	1	3	1		<i>Nasonovia ribisnigri</i>
2757	110	110	48	88	204	74	77	59	46	11		<i>Pemphigus</i> spp.
												<i>Pentatrichopus fragaefolii</i>
	1	300	1	2			1456					<i>Phorodon humuli</i>
												<i>Phyllaphis fagi</i>
9069	2268	2656	2725	2810	3500	1322	3111	773	574	156		<i>Rhopalosiphum insertum</i>
8	2	2			2	4	9	9	6	1		<i>Rhopalosiphum maidis</i>
18171	3366	9172	2446	4364	13224	3478	10579	3244	3421	937		<i>Rhopalosiphum padi</i>
7	7	12	8	14	24	6	27	26	13	3		<i>Sitobion avenae</i>
8		16	1		2		7	10	3			<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1985, PART 2

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)
<i>Acyrtosiphon pisum</i>											
<i>Amphorophora rubi</i>											
<i>Aphis fabae</i> grp.		1		1		3		6		128	8
<i>Aphis</i> spp.						2		45	12	374	42
<i>Aulacorthum solani</i>			1	1	2					4	
<i>Brachycaudus helichrysi</i>	7	5	2	12	1	5		6			8
<i>Brevicoryne brassicae</i>										6	16
<i>Cavariella aegopodii</i>	2	3		1	1	10	1	1	4		2
<i>Cinara</i> spp.	1						4				
<i>Drepanosiphum platanoidis</i>	9	14	6	12	7	21	9	14	120	1	34
<i>Dysaphis plantaginea</i>											
<i>Elatobium abietinum</i>											
<i>Eriosoma ulmi</i>	2	84	2		1		1			25	32
<i>Hyalopterus pruni</i>		2						2		1	
<i>Hyperomyzus lactucae</i>		3		2	1	1		9	2	10	14
<i>Macrosiphum euphorbiae</i>	1	2	2		1		2		4		8
<i>Megoura viciae</i>											
<i>Metopolophium dirhodum</i>	6	39	12	33	12	22	5	3	40	1	10
<i>Metopolophium festucae</i> s.l.	16	43	13	18	15	8					4
<i>Myzus ascalonicus</i>		1	1	1	1		1		4		
<i>Myzus certus</i>	1		1				1			2	
<i>Myzus ornatus</i>							1				4
<i>Myzus persicae</i> grp.	3	8	3	3	2	1	1	9	4	31	56
<i>Nasonovia ribisnigri</i>		12						1		2	
<i>Pemphigus</i> spp.	111	112	139	119	60	62	14	17	156	194	186
<i>Pentatrichopus fragaefolii</i>											
<i>Phorodon humuli</i>										1	4
<i>Phyllaphis fagi</i>	1	3		2	1			1	4	2	
<i>Rhopalosiphum insertum</i>	314	295	41	53	94	622	309	458	2420	1734	3812
<i>Rhopalosiphum maidis</i>											
<i>Rhopalosiphum padi</i>	2005	8694	4245	4964	2065	3005	7582	921	11350	2356	9680
<i>Sitobion avenae</i>	3	8	3	1	4	2	6	2	16		14
<i>Sitobion fragariae</i>	12	16	23	13	8	6	3		10	2	20

ROTHAMSTED INSECT SURVEY

1(g)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1985
8 October to 4 November 1985

											Sites
Aberystwyth (911)	Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Long Ashton II (936)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)	Species
						2	1		1		<i>Acyrtosiphon pisum</i>
8	69	4		2	2	6	1	1	8	6	<i>Amphorophora rubi</i>
12	145	12	3	34	12	10	16	4	15	12	<i>Aphis fabae</i> grp.
	1		1			4	2	1	2	1	<i>Aphis</i> spp.
1	5	2	10	10	2	4	11	7			<i>Aulacorthum solani</i>
	4	8	6	22			2				<i>Brachycaudus helichrysi</i>
13	10	4	2	6	10	4	7	2	1	5	<i>Brevicoryne brassicae</i>
				2				1			<i>Cavariella aegopodii</i>
5		2	2	10	16	10		14	2	12	<i>Cinara</i> spp.
	8			2		2		2			<i>Drepanosiphum platanoidis</i>
2		18	9	6	2		6	5			<i>Dysaphis plantaginea</i>
2	8		2	2		6	1				<i>Elatobium abietinum</i>
2	4	10	5	26	6	10	9	14	7	1	<i>Eriosoma ulmi</i>
4		2	2		4	4		2	2		<i>Hyalopterus pruni</i>
											<i>Hyperomyzus lactucae</i>
8	2		3	4	6		4	9	1	1	<i>Macrosiphum euphorbiae</i>
8					2			1	5		<i>Megoura viciae</i>
						2			1		<i>Metopolophium dirhodum</i>
1	2						1	1	1		<i>Metopolophium festucae</i> s.l.
6	72	2	11	78	10	14	56	27	32	11	<i>Myzus ascalonicus</i>
7	16	8		4	2		4	3			<i>Myzus certus</i>
444	221	68	55	118	72	56	48	108	63	6	<i>Myzus ornatus</i>
											<i>Myzus persicae</i> grp.
1		36	2	4		6	75	9	1		<i>Nasonovia ribisnigri</i>
	1					2	1		1	2	<i>Pemphigus</i> spp.
1590	2745	4592	1781	2328	1434	2098	4950	3058	1283	419	<i>Pentatrachopus fragaefolii</i>
1											<i>Phorodon humuli</i>
4208	3028	6468	2442	2948	2708	1364	2158	5359	3229	544	<i>Phyllaphis fagi</i>
	4	12	4	6	8		11	7	10	6	<i>Rhopalosiphum insertum</i>
17	14	44	9	6	14	38	14	56	68	4	<i>Rhopalosiphum maidis</i>
											<i>Rhopalosiphum padi</i>
											<i>Sitobion avenae</i>
											<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1985, PART 2

TABLE
The Rothamsted Insect Survey—Suction Traps: four-weekly total catches
Week Nos 45 to 48—

Species	Elgin (916)	Dundee (907)	Edinburgh (912)	Pathhead (931)	Auchincruive (923)	Newcastle (906)	Belfast (927)	High Mowthorpe (905)	Preston (922)	Kirton (934)	Shardlow (919)
<i>Acyrtosiphon pisum</i>											
<i>Amphorophora rubi</i>											
<i>Aphis fabae</i> grp.										2	
<i>Aphis</i> spp.							1			13	2
<i>Aulacorthum solani</i>											
<i>Brachycaudus helichrysi</i>		1									
<i>Brevicoryne brassicae</i>											
<i>Cavariella aegopodii</i>											
<i>Cinara</i> spp.											
<i>Drepanosiphum platanoidis</i>			1		1		1		4	1	
<i>Dysaphis plantaginea</i>											
<i>Elatobium abietinum</i>											
<i>Eriosoma ulmi</i>		1									
<i>Hyalopterus pruni</i>											
<i>Hyperomyzus lactucae</i>											
<i>Macrosiphum euphorbiae</i>			1								
<i>Megoura viciae</i>											
<i>Metopolophium dirhodum</i>									1		
<i>Metopolophium festucae</i> s.l.			1	1		1					
<i>Myzus ascalonicus</i>											
<i>Myzus certus</i>											
<i>Myzus ornatus</i>											
<i>Myzus persicae</i> grp.										4	
<i>Nasonovia ribisnigri</i>											
<i>Pemphigus</i> spp.		1				1			1	2	
<i>Pentatrichopus fragaefolii</i>											
<i>Phorodon humuli</i>											
<i>Phyllaphis fagi</i>										1	
<i>Rhopalosiphum insertum</i>						3	8	1	7	35	70
<i>Rhopalosiphum maidis</i>											
<i>Rhopalosiphum padi</i>		24	5	3	4	35	22	7	59	25	82
<i>Sitobion avenae</i>		1					1				
<i>Sitobion fragariae</i>		1	2		1				3	1	5

ROTHAMSTED INSECT SURVEY

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of aphids of economic, or other, interest reported in the Weekly Bulletin 1985
5 November to 2 December 1985

											Sites
Aberystwyth (911)	Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Long Ashton II (936)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)	Species
											<i>Acyrtosiphon pisum</i>
											<i>Amphorophora rubi</i>
1								1		1	<i>Aphis fabae</i> grp.
				2			1	1			<i>Aphis</i> spp.
			3					2			<i>Aulacorthum solani</i>
											<i>Brachycaudus helichrysi</i>
					2			4			<i>Brevicoryne brassicae</i>
								1			<i>Cavariella aegopodii</i>
6	1	3			6	1		1	3	1	<i>Cinara</i> spp.
	1							1			<i>Drepanosiphum platanoidis</i>
								1			<i>Dysaphis plantaginea</i>
				2							<i>Elatobium abietinum</i>
											<i>Eriosoma ulmi</i>
			1	2			1	1	2		<i>Hyalopterus pruni</i>
											<i>Hyperomyzus lactucae</i>
											<i>Macrosiphum euphorbiae</i>
						1	1				<i>Megoura viciae</i>
											<i>Metopolophium dirhodum</i>
								1			<i>Metopolophium festucae</i> s.l.
											<i>Myzus ascalonicus</i>
											<i>Myzus certus</i>
											<i>Myzus ornatus</i>
						1	4		6		<i>Myzus persicae</i> grp.
1	1		2	6			4		1	1	<i>Nasonovia ribisnigri</i>
											<i>Pemphigus</i> spp.
											<i>Pentatrachopus fragaefolii</i>
								2			<i>Phorodon humuli</i>
							1			1	<i>Phyllaphis fagi</i>
56	21	59	51	56	42	30	38	59	34	11	<i>Rhopalosiphum insertum</i>
							1				<i>Rhopalosiphum maidis</i>
32	8	117	17	20	20	27	20	21	19	18	<i>Rhopalosiphum padi</i>
								2			<i>Sitobion avenae</i>
2	2	2	1	2	1	6	4	4	9	9	<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1985, PART 2

TABLE
The Rothamsted Insect Survey—Light Traps: annual records

Pest Species	Year	Morvich 421	Newton, Elgin 58	Beinn Eighe 350	Fort Augustus 49	Kindrogan 48	Dundee 47	Rowardennan 97	East Craigs 261	Brodick 446	Auchincruive 293	Culzean Castle 264
<i>Hydraecia micacea</i> Rosy Rustic	1983	54	75	58	26	—	—	11	6	—	10	31
	1984	109	54	61	62	104	19	8	12	42	33	65
<i>Bupalus piniaria</i> Bordered White	1983	0	0	6	0	—	—	1	0	—	0	0
	1984	0	6	7	0	0	5	0	0	0	0	0
<i>Panolis flammea</i> Pine Beauty	1983	0	0	2	18	—	—	0	0	—	0	0
	1984	0	1	9	22	0	0	0	0	0	0	7
<i>Cerapteryx graminis</i> Antler Moth	1983	67	10	54	23	—	—	9	0	—	36	36
	1984	123	14	77	58	516	23	15	22	99	13	17
<i>Agriopsis aurantiaria</i> Scarce Umber	1983	43	115	0	23	—	—	10	0	—	0	2
	1984	—	6	6	25	56	0	12	0	3	0	0
<i>Operophtera fagata</i> Northern Winter Moth	1983	20	6	0	5	—	—	55	0	—	1	9
	1984	—	3	0	7	30	0	56	0	5	0	2
<i>Apamea sordens</i> Rustic Shoulder-knot	1983	0	2	0	0	—	—	0	10	—	0	0
	1984	0	1	0	3	0	8	0	14	1	6	0
<i>Gortyna flavago</i> Frosted Orange	1983	0	5	0	0	—	—	0	0	—	1	1
	1984	0	5	0	0	0	0	0	0	0	0	0
<i>Mamestra brassicae</i> Cabbage Moth	1983	0	1	0	0	—	—	0	2	—	0	0
	1984	0	2	0	1	0	12	0	4	0	0	0
<i>Noctua pronuba</i> Large Yellow Underwing	1983	10	15	2	2	—	—	4	2	—	7	12
	1984	34	12	1	3	9	10	9	4	17	20	14
<i>Lacanobia oleracea</i> Bright-line Brown-eye	1983	1	24	0	2	—	—	0	4	—	18	1
	1984	1	4	0	1	0	1	0	12	0	12	3
<i>Euxoa nigricans</i> Garden Dart	1983	1	0	0	0	—	—	0	0	—	0	0
	1984	2	0	0	0	0	3	0	10	0	0	0
<i>Mesapamea secalis</i> Common Rustic	1983	3	63	10	9	—	—	2	27	—	53	15
	1984	2	22	9	11	4	37	0	66	15	38	10
<i>Melanchna persicariae</i> Dot Moth	1983	0	1	0	0	—	—	0	0	—	0	0
	1984	0	0	0	0	0	0	0	0	0	0	0
<i>Operophtera brumata</i> Winter Moth	1983	23	12	6	17	—	—	192	0	—	0	6
	1984	—	3	9	15	123	1	419	0	14	0	4

ROTHAMSTED INSECT SURVEY

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of moths of economic, or other importance for 1983 and 1984

	Kielder	Stocksfield	Chester-le-Street	Forest-in-Teesdale	Windermere	Baldersby	Harrogate	Spurn Head	Bangor	Year	Pest Species
	296	362	39	416	323	315	410	131	35		
170	51	8	12	2	34	24	8	0	1983	<i>Hydraecia micacea</i>	
129	28	11	22	1	34	13	29	0	1984	Rosy Rustic	
1	0	0	0	0	0	0	0	0	1983	<i>Bupalus piniaria</i>	
2	0	0	0	0	1	0	0	0	1984	Bordered White	
0	0	0	0	0	0	0	0	0	1983	<i>Panolis flammea</i>	
0	0	0	0	0	0	1	0	0	1984	Pine Beauty	
50	38	8	898	94	35	15	20	1	1983	<i>Cerapteryx graminis</i>	
61	12	0	429	79	5	5	10	5	1984	Antler Moth	
81	3	0	1	0	10	12	0	0	1983	<i>Agriopsis aurantiaria</i>	
21	2	0	0	0	0	11	0	0	1984	Scarce Umber	
13	3	0	3	0	0	14	0	0	1983	<i>Operophtera fagata</i>	
19	0	1	0	1	0	13	0	0	1984	Northern Winter Moth	
0	0	1	0	0	1	0	7	1	1983	<i>Apamea sordens</i>	
0	0	1	0	1	8	0	13	0	1984	Rustic Shoulder-knot	
0	2	1	0	0	5	9	0	0	1983	<i>Gortyna flavago</i>	
0	2	0	0	0	2	14	1	0	1984	Frosted Orange	
1	0	3	0	2	8	0	0	4	1983	<i>Mamestra brassicae</i>	
1	0	8	0	2	10	0	1	2	1984	Cabbage Moth	
5	22	39	4	25	10	6	38	2	1983	<i>Noctua pronuba</i>	
5	50	5	5	69	15	15	117	18	1984	Large Yellow Underwing	
0	0	0	0	0	5	0	13	0	1983	<i>Lacanobia oleracea</i>	
0	0	6	3	1	8	0	111	0	1984	Bright-line Brown-eye	
0	0	1	0	0	0	0	0	0	1983	<i>Euxoa nigricans</i>	
0	45	3	0	0	0	0	2	0	1984	Garden Dart	
11	14	61	1	21	96	31	25	13	1983	<i>Mesapamea secalis</i>	
23	10	38	7	48	139	21	54	41	1984	Common Rustic	
0	0	0	0	51	2	0	0	0	1983	<i>Melanchnra persicariae</i>	
0	0	0	0	9	1	0	1	0	1984	Dot Moth	
115	6	2	0	3	0	90	6	0	1983	<i>Operophtera brumata</i>	
40	2	0	1	17	6	68	2	0	1984	Winter Moth	

ROTHAMSTED REPORT FOR 1985, PART 2

TABLE

The Rothamsted Insect Survey—Light Traps: annual records

Pest Species	Year	Matlock	Wells-next-the-Sea	Shardlow	Sutton Bonington	Terrington	Preston Montford	Empingham	Compton Park	Wolverhampton	Santon Downham	Aberystwyth
		279	274	378	168	381	382	280	424	267	259	340
<i>Hydraecia micacea</i> Rosy Rustic	1983	5	—	5	5	14	23	3	10	0	13	25
	1984	3	0	9	19	18	7	7	30	0	32	25
<i>Bupalus piniaria</i> Bordered White	1983	3	—	0	0	0	0	0	0	0	0	1
	1984	0	0	0	0	1	0	1	0	0	0	1
<i>Panolis flammea</i> Pine Beauty	1983	0	—	0	0	0	0	0	0	0	25	0
	1984	1	0	0	0	0	0	0	0	0	68	3
<i>Cerapteryx graminis</i> Antler Moth	1983	0	—	0	1	0	57	0	5	0	8	223
	1984	0	0	1	0	0	8	0	0	0	18	98
<i>Agriopsis aurantiaria</i> Scarce Umber	1983	3	—	0	0	0	1	0	0	0	0	0
	1984	0	0	0	1	0	—	2	0	0	4	—
<i>Operophtera fagata</i> Northern Winter Moth	1983	0	—	0	0	0	1	0	0	0	1	0
	1984	0	0	0	0	0	—	0	0	0	3	—
<i>Apamea sordens</i> Rustic Shoulder-knot	1983	7	—	4	1	1	0	1	0	0	5	0
	1984	3	0	3	5	0	1	0	1	0	6	0
<i>Gortyna flavago</i> Frosted Orange	1983	1	—	0	2	3	5	0	0	0	8	0
	1984	1	0	0	1	1	0	0	0	0	4	2
<i>Mamestra brassicae</i> Cabbage Moth	1983	14	—	3	1	6	2	11	0	0	2	0
	1984	11	2	1	1	1	0	11	0	0	1	0
<i>Noctua pronuba</i> Large Yellow Underwing	1983	79	—	5	9	1	5	27	8	2	0	2
	1984	18	3	12	24	3	0	22	15	0	3	18
<i>Lacanobia oleracea</i> Bright-line Brown-eye	1983	11	—	19	9	7	3	4	5	1	3	4
	1984	6	0	25	30	10	3	7	1	0	8	1
<i>Euxoa nigricans</i> Garden Dart	1983	0	—	0	0	0	0	0	0	1	1	0
	1984	0	0	0	0	2	0	0	0	0	0	0
<i>Mesapamea secalis</i> Common Rustic	1983	134	—	56	153	17	90	42	18	0	11	63
	1984	19	3	138	100	39	173	55	11	0	19	149
<i>Melanchnra persicariae</i> Dot Moth	1983	7	—	13	8	3	4	28	3	3	6	2
	1984	0	2	3	0	5	0	20	2	1	13	5
<i>Operophtera brumata</i> Winter Moth	1983	2	—	1	7	0	14	5	2	0	34	2
	1984	1	3	1	21	0	—	14	0	0	44	—

ROTHAMSTED INSECT SURVEY

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of moths of economic, or other importance for 1983 and 1984

Monks Wood (Ewingswode)		Broom's Barn	Tregaron	Llysdinam	Luddington	Aberporth	Cockayne Hatley	Hereford	Evesham	Rhandirmwyn	Year	Pest Species
277	88	331	111	414	440	336	212	444	346			
3	2	74	36	1	14	9	42	208	15	1983	<i>Hydraecia micacea</i>	
3	1	142	33	3	12	11	15	114	11	1984	Rosy Rustic	
0	0	0	0	0	0	0	0	1	0	1983	<i>Bupalus piniaria</i>	
0	0	0	0	0	0	0	0	0	0	1984	Bordered White	
0	0	0	0	0	0	0	0	0	0	1983	<i>Panolis flammea</i>	
0	0	0	9	0	0	0	0	0	0	1984	Pine Beauty	
0	1	412	100	0	220	0	19	1	55	1983	<i>Cerapteryx graminis</i>	
0	0	720	75	0	182	1	1	1	123	1984	Antler Moth	
—	0	24	32	0	1	0	1	0	41	1983	<i>Agriopis aurantiaria</i>	
31	0	—	14	0	0	1	1	0	23	1984	Scarce Umber	
—	0	100	0	1	0	0	0	0	7	1983	<i>Operophtera fagata</i>	
9	0	—	0	0	0	0	0	0	4	1984	Northern Winter Moth	
0	3	0	0	1	0	3	0	1	0	1983	<i>Apamea sordens</i>	
0	2	0	0	0	0	2	0	2	0	1984	Rustic Shoulder-knot	
0	0	5	4	0	0	2	1	2	1	1983	<i>Gortyna flavago</i>	
1	0	3	3	0	0	2	1	2	1	1984	Frosted Orange	
0	9	0	0	2	0	0	1	3	1	1983	<i>Mamestra brassicae</i>	
0	10	1	0	3	0	1	0	9	0	1984	Cabbage Moth	
12	1	7	3	6	3	3	1	2	16	1983	<i>Noctua pronuba</i>	
22	4	57	24	2	17	8	0	7	11	1984	Large Yellow Underwing	
0	0	4	0	1	9	7	0	3	11	1983	<i>Lacanobia oleracea</i>	
0	2	12	0	1	17	12	0	1	7	1984	Bright-line Brown-eye	
0	0	0	0	1	0	1	0	0	0	1983	<i>Euxoa nigricans</i>	
4	2	0	0	3	0	0	0	0	0	1984	Garden Dart	
17	7	32	11	21	98	36	39	19	15	1983	<i>Mesapamea secalis</i>	
13	18	41	44	24	87	29	44	12	7	1984	Common Rustic	
1	2	1	0	17	19	4	1	12	4	1983	<i>Melanchnra persicariae</i>	
1	1	0	0	5	27	1	0	1	3	1984	Dot Moth	
—	3	66	41	3	0	5	15	5	53	1983	<i>Operophtera brumata</i>	
239	3	—	15	5	0	13	2	7	78	1984	Winter Moth	

ROTHAMSTED REPORT FOR 1985, PART 2

TABLE

The Rothamsted Insect Survey—Light Traps: annual records

Pest Species	Year	Halstead 436	Rothamsted (Barnfield) 1	Rothamsted (Allotments) 34	Rothamsted (Geescroft) 22	Writtle 87	Westonbirt 292	Hurley 180	Cardiff 347	Sheppey 370	Stratfield Mortimer 16	Wisley 289
<i>Hydraecia micacea</i> Rosy Rustic	1983	2	8	31	2	—	0	—	1	3	2	1
	1984	1	19	8	1	3	1	0	0	1	0	1
<i>Bupalus piniaria</i> Bordered White	1983	0	0	0	0	—	0	—	0	0	0	1
	1984	0	0	0	0	0	0	0	0	0	0	1
<i>Panolis flammea</i> Pine Beauty	1983	0	0	0	0	—	2	—	0	0	0	3
	1984	0	0	0	0	0	1	0	0	0	0	0
<i>Cerapteryx graminis</i> Antler Moth	1983	0	0	0	0	—	0	—	0	0	0	0
	1984	0	0	0	0	0	0	0	1	0	0	0
<i>Agriopsis aurantiaria</i> Scarce Umber	1983	0	0	0	37	—	11	—	0	0	4	2
	1984	0	0	0	19	0	2	0	0	0	2	1
<i>Operophtera fagata</i> Northern Winter Moth	1983	0	0	0	0	—	6	—	0	0	0	0
	1984	0	0	0	0	0	2	0	0	0	0	6
<i>Apamea sordens</i> Rustic Shoulder-knot	1983	0	5	2	2	—	0	—	1	0	0	0
	1984	0	4	1	1	2	0	1	0	0	0	0
<i>Gortyna flavago</i> Frosted Orange	1983	2	2	0	0	—	0	—	0	0	1	0
	1984	0	0	0	0	0	0	0	0	0	1	1
<i>Mamestra brassicae</i> Cabbage Moth	1983	1	0	0	4	—	1	—	2	2	3	11
	1984	0	0	1	3	1	0	0	0	0	0	9
<i>Noctua pronuba</i> Large Yellow Underwing	1983	4	15	6	93	—	16	—	3	4	11	5
	1984	8	13	4	415	9	27	3	18	10	24	11
<i>Lacanobia oleracea</i> Bright-line Brown-eye	1983	2	20	2	6	—	0	—	3	10	5	0
	1984	5	18	0	5	19	0	0	5	10	1	1
<i>Euxoa nigricans</i> Garden Dart	1983	0	0	0	0	—	0	—	0	0	0	0
	1984	0	0	0	1	3	0	0	0	0	0	0
<i>Mesapamea secalis</i> Common Rustic	1983	22	658	113	190	—	71	—	81	44	31	27
	1984	12	322	35	110	57	41	186	69	43	77	54
<i>Melanchra persicariae</i> Dot Moth	1983	1	9	0	4	—	1	—	1	11	1	5
	1984	0	0	0	3	10	1	0	0	0	3	1
<i>Operophtera brumata</i> Winter Moth	1983	2	3	2	120	—	13	—	3	0	149	14
	1984	0	5	0	123	5	16	5	4	1	82	10

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	Alice Holt	Haslemere	Winchester	Lydd	Denny Lodge	Starcross	Yarner Wood	Rosewarne	Guernsey	Jersey	Year	Pest Species
	46	219	379	366	368	149	266	114	252	146		
	4	9	2	2	0	5	9	3	1	1	1983	<i>Hydraecia micacea</i>
	4	2	3	2	1	11	5	3	1	7	1984	Rosy Rustic
	1	1	0	0	0	0	0	0	0	0	1983	<i>Bupalus piniaria</i>
	1	0	0	0	0	0	0	0	0	0	1984	Bordered White
	2	0	0	0	0	0	3	0	0	1	1983	<i>Panolis flammea</i>
	4	1	0	0	3	0	1	1	0	0	1984	Pine Beauty
	7	0	0	2	0	0	1	0	0	0	1983	<i>Cerapteryx graminis</i>
	5	0	0	3	0	0	2	0	0	0	1984	Antler Moth
	3	1	0	0	21	0	6	0	0	0	1983	<i>Agriopsis aurantiaria</i>
	5	1	0	0	13	0	6	0	0	0	1984	Scarce Umber
	5	0	3	0	11	0	5	0	0	0	1983	<i>Operophtera fagata</i>
	3	0	0	0	10	0	5	0	0	0	1984	Northern Winter Moth
	0	0	0	0	0	0	0	0	0	0	1983	<i>Apamea sordens</i>
	1	0	1	0	0	0	0	0	0	0	1984	Rustic Shoulder-knot
	0	2	1	0	0	0	6	0	0	0	1983	<i>Gortyna flavago</i>
	1	1	0	0	0	0	5	0	0	0	1984	Frosted Orange
	0	2	4	0	23	3	0	8	10	10	1983	<i>Mamestra brassicae</i>
	1	2	3	0	11	1	0	5	7	55	1984	Cabbage Moth
	6	11	23	0	3	0	18	2	6	0	1983	<i>Noctua pronuba</i>
	23	11	63	0	3	5	35	10	13	1	1984	Large Yellow Underwing
	2	1	10	0	0	0	29	10	6	3	1983	<i>Lacanobia oleracea</i>
	0	5	19	0	7	2	128	7	21	4	1984	Bright-line Brown-eye
	0	0	0	0	0	0	1	2	0	0	1983	<i>Euxoa nigricans</i>
	0	0	0	0	0	0	0	0	0	0	1984	Garden Dart
	26	10	118	62	3	8	60	20	29	2	1983	<i>Mesapamea secalis</i>
	17	29	130	56	20	9	98	69	24	13	1984	Common Rustic
	1	1	6	0	0	0	1	4	0	3	1983	<i>Melanchnra persicariae</i>
	0	3	1	0	0	0	1	6	0	1	1984	Dot Moth
	5	3	0	0	16	0	16	6	1	0	1983	<i>Operophtera brumata</i>
	8	7	4	0	14	0	29	0	1	1	1984	Winter Moth

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Pest Species	Year	Morvich	Newton, Elgin	Beinn Eighe	Fort Augustus	Kindrogan	Dundee	Rowardennan	East Craigs	Brodick	Auchincruive	Culzean Castle
		421	58	350	49	48	47	97	261	446	293	264
<i>Abraxas grossulariata</i>	1983	0	0	16	0	—	—	0	1	—	0	0
Magpie Moth	1984	0	1	39	0	0	1	0	0	0	0	0
<i>Agrotis segetum</i>	1983	0	4	0	0	—	—	0	0	—	0	0
Turnip Moth	1984	0	1	0	0	0	0	0	0	0	0	0
<i>Erannis defoliaria</i>	1983	12	9	5	2	—	—	108	0	—	0	4
Mottled Umber	1984	—	2	2	5	38	6	109	0	14	0	0
<i>Phlogophora meticulosa</i>	1983	0	0	2	1	—	—	0	0	—	0	0
Angle Shades	1984	0	0	0	0	0	0	0	0	3	0	0
<i>Alsophila aescularia</i>	1983	5	1	0	1	—	—	12	0	—	0	21
March Moth	1984	3	15	0	12	0	3	42	0	—	0	18
<i>Hepialus humuli</i>	1983	2	0	0	0	—	—	0	0	—	1	0
Ghost Swift	1984	0	1	0	1	0	0	0	0	0	0	0
<i>Hepialus lupulinus</i>	1983	0	0	0	0	—	—	0	1	—	2	0
Common Swift	1984	0	0	0	0	0	0	1	3	0	7	0
<i>Agrotis ipsilon</i>	1983	0	0	0	1	—	—	1	0	—	0	0
Dark Sword-grass	1984	2	0	0	0	0	0	0	0	0	0	0
<i>Euproctis chrysorrhoea</i>	1983	0	0	0	0	—	—	0	0	—	0	0
Brown-tail	1984	0	0	0	0	0	0	0	0	0	0	0
<i>Agrotis exclamationis</i>	1983	0	8	0	2	—	—	0	50	—	7	7
Heart and Dart	1984	7	22	0	5	6	21	0	182	37	43	20
<i>Autographa gamma</i>	1983	4	0	1	0	—	—	4	0	—	0	4
Silver Y	1984	0	1	1	0	0	3	1	1	4	0	3
<i>Spodoptera exigua</i>	1983	0	0	0	0	—	—	0	0	—	0	0
Small Mottled Willow	1984	0	0	0	0	0	0	0	0	0	0	0
<i>Orthonama obstipata</i>	1983	0	0	0	0	—	—	0	0	—	0	0
The Gem	1984	0	0	0	0	0	0	0	0	0	0	0
<i>Nomophila noctuella</i>	1983	0	0	0	0	—	—	2	0	—	0	3
Rush Veneer Pearl	1984	0	0	0	0	0	0	0	0	—	0	0
<i>Plutella xylostella</i>	1983	3	53	11	0	—	—	0	6	—	516	4
Diamond-back Moth	1984	0	12	0	0	0	0	0	23	—	10	1
<i>Udea ferrugalis</i>	1983	0	0	0	0	—	—	0	0	—	0	0
Rusty-dot Pearl	1984	0	0	0	0	0	0	0	0	—	0	0

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	Kielder	Stocksfield	Chester-le-Street	Forest-in-Teesdale	Windermere	Baldersby	Harrogate	Spurn Head	Bangor	Year	Pest Species
	296	362	39	416	323	315	410	131	35		
	0	0	3	0	0	9	3	1	1	1983	<i>Abraxas grossulariata</i>
	0	0	3	0	2	8	1	1	0	1984	Magpie Moth
	0	0	1	0	2	3	0	4	1	1983	<i>Agrotis segetum</i>
	0	0	0	0	0	1	0	6	0	1984	Turnip Moth
	21	2	1	0	3	11	24	0	0	1983	<i>Erannis defoliaria</i>
	11	7	0	0	2	2	28	0	0	1984	Mottled Umber
	2	8	4	1	14	11	1	10	1	1983	<i>Phlogophora meticulosa</i>
	1	0	0	0	10	3	0	25	1	1984	Angle Shades
	0	5	3	0	5	22	10	0	0	1983	<i>Alsophila aescularia</i>
	1	4	0	0	7	13	16	0	0	1984	March Moth
	0	1	1	7	0	0	1	0	0	1983	<i>Hepialus humuli</i>
	0	1	4	0	0	0	0	0	0	1984	Ghost Swift
	0	0	1	0	0	3	103	13	0	1983	<i>Hepialus lupulinus</i>
	0	0	0	0	0	2	152	32	0	1984	Common Swift
	0	0	0	0	3	0	2	1	0	1983	<i>Agrotis ipsilon</i>
	1	0	0	0	2	0	0	0	0	1984	Dark Sword-grass
	0	0	0	0	0	0	0	1	0	1983	<i>Euproctis chrysorrhoea</i>
	0	0	0	0	0	0	0	0	0	1984	Brown-tail
	1	12	37	0	25	7	13	33	1	1983	<i>Agrotis exclamationis</i>
	2	223	33	0	408	130	97	189	5	1984	Heart and Dart
	6	3	59	3	4	82	15	33	5	1983	<i>Autographa gamma</i>
	0	6	59	2	4	40	7	52	0	1984	Silver Y
	0	0	0	0	0	0	0	0	0	1983	<i>Spodoptera exigua</i>
	0	0	0	0	0	0	0	0	0	1984	Small Mottled Willow
	0	0	0	0	0	0	0	0	0	1983	<i>Orthonama obstipata</i>
	0	0	0	0	0	0	0	0	0	1984	The Gem
	2	—	0	0	1	0	—	3	0	1983	<i>Nomophila noctuella</i>
	—	—	0	0	0	0	—	0	0	1984	Rush Veneer Pearl
	1	—	7	0	0	2	—	67	8	1983	<i>Plutella xylostella</i>
	—	—	0	0	0	12	—	0	2	1984	Diamond-back Moth
	0	—	0	0	0	0	—	0	0	1983	<i>Udea ferrugalis</i>
	—	—	0	0	2	0	—	1	0	1984	Rusty-dot Pearl

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Pest Species	Year	Matlock 279	Wells-next-the-Sea 274	Shardlow 378	Sutton Bonington 168	Terrington 381	Preston Montford 382	Empingham 280	Compton Park 424	Wolverhampton 267	Santon Downham 259	Aberystwyth 340
<i>Abraxas grossulariata</i> Magpie Moth	1983	41	—	3	5	1	1	21	0	0	0	14
	1984	12	18	2	0	1	0	20	0	0	1	35
<i>Agrotis segetum</i> Turnip Moth	1983	0	—	2	2	2	0	3	0	0	0	0
	1984	1	0	2	14	0	1	1	0	0	1	0
<i>Erannis defoliaria</i> Mottled Umber	1983	0	—	1	3	0	10	2	0	0	5	2
	1984	0	0	1	1	0	—	2	1	0	7	—
<i>Phlogophora meticulosa</i> Angle Shades	1983	7	—	3	5	12	3	15	1	0	4	3
	1984	2	5	4	7	16	0	12	3	0	5	1
<i>Alsophila aescularia</i> March Moth	1983	5	—	7	5	0	32	1	2	0	11	6
	1984	4	0	11	4	0	30	7	3	0	18	10
<i>Hepialus humuli</i> Ghost Swift	1983	0	—	0	0	0	3	2	3	0	3	5
	1984	0	0	0	3	0	2	0	0	0	0	0
<i>Hepialus lupulinus</i> Common Swift	1983	1	—	6	51	18	8	31	1	0	2	0
	1984	5	15	22	40	48	6	107	0	0	5	0
<i>Agrotis ipsilon</i> Dark Sword-grass	1983	1	—	0	1	0	0	1	1	0	0	0
	1984	0	0	0	1	0	0	0	0	0	0	0
<i>Euproctis chrysorrhoea</i> Brown-tail	1983	0	—	0	0	0	0	0	0	0	0	0
	1984	0	0	0	0	0	0	0	0	0	0	0
<i>Agrotis exclamationis</i> Heart and Dart	1983	30	—	155	154	15	33	52	156	8	13	2
	1984	119	9	476	810	24	225	150	169	5	25	58
<i>Autographa gamma</i> Silver Y	1983	15	—	20	4	14	19	47	10	2	20	42
	1984	11	2	31	12	4	6	53	16	0	30	6
<i>Spodoptera exigua</i> Small Mottled Willow	1983	0	—	0	0	0	0	0	0	0	0	0
	1984	0	0	0	0	0	0	0	0	0	0	0
<i>Orthonama obstipata</i> The Gem	1983	0	—	0	0	0	1	0	0	0	0	1
	1984	0	0	0	0	0	0	0	0	0	0	0
<i>Nomophila noctuella</i> Rush Veneer Pearl	1983	0	—	0	0	0	9	0	0	0	0	—
	1984	0	0	0	0	0	0	0	0	0	0	—
<i>Plutella xylostella</i> Diamond-back Moth	1983	22	—	343	0	412	26	73	0	0	3	—
	1984	5	0	37	0	0	0	7	0	0	0	—
<i>Udea ferrugalis</i> Rusty-dot Pearl	1983	0	—	0	0	0	22	0	0	0	1	—
	1984	0	0	0	0	2	0	0	0	0	1	—

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	Monks Wood (Ewingswode)	Broom's Barn	Tregaron	Llysdinan	Luddington	Aberporth	Cockayne Hatley	Hereford	Evesham	Rhandirmwyn	Year	Pest Species
	277	88	331	111	414	440	337	212	444	346		
	103	0	91	4	1	22	5	8	0	14	1983	<i>Abraxas grossulariata</i>
	124	0	48	2	1	11	12	3	4	4	1984	Magpie Moth
	5	1	0	0	1	0	6	0	2	0	1983	<i>Agrotis segetum</i>
	2	3	0	0	1	0	6	0	1	0	1984	Turnip Moth
	—	0	122	35	0	0	1	2	0	157	1983	<i>Erannis defoliaria</i>
	71	0	—	17	2	0	2	3	0	58	1984	Mottled Umber
	18	0	12	5	1	4	0	1	0	13	1983	<i>Phlogophora meticulosa</i>
	10	3	5	3	4	2	2	0	0	7	1984	Angle Shades
	31	1	92	—	3	2	2	10	3	13	1983	<i>Alsophila aescularia</i>
	41	0	112	22	6	2	7	17	1	8	1984	March Moth
	0	0	1	2	1	7	1	0	16	0	1983	<i>Hepialus humuli</i>
	0	0	0	0	0	4	2	0	0	0	1984	Ghost Swift
	27	1	0	0	0	17	1	1	1	0	1983	<i>Hepialus lupulinus</i>
	50	9	0	0	3	4	0	0	3	0	1984	Common Swift
	0	0	23	4	0	2	0	0	0	3	1983	<i>Agrotis ipsilon</i>
	0	0	6	0	0	3	0	0	0	1	1984	Dark Sword-grass
	0	0	0	0	0	0	0	0	0	0	1983	<i>Euproctis chrysorrhoea</i>
	0	0	0	0	0	0	0	0	0	0	1984	Brown-tail
	6	12	11	8	35	23	13	27	112	5	1983	<i>Agrotis exclamationis</i>
	11	25	425	496	128	269	35	210	76	144	1984	Heart and Dart
	10	2	63	32	7	42	17	5	2	41	1983	<i>Autographa gamma</i>
	18	5	11	9	4	8	15	2	3	25	1984	Silver Y
	0	0	0	0	0	0	0	0	0	0	1983	<i>Spodoptera exigua</i>
	0	0	0	0	0	0	0	0	0	0	1984	Small Mottled Willow
	0	0	0	0	1	0	0	0	0	0	1983	<i>Orthonama obstipata</i>
	0	0	0	0	0	0	0	0	0	0	1984	The Gem
	0	1	—	—	0	—	3	5	2	14	1983	<i>Nomophila noctuella</i>
	0	1	—	—	0	—	0	0	0	0	1984	Rush Veneer Pearl
	4	0	—	—	66	—	873	140	59	0	1983	<i>Plutella xylostella</i>
	1	1	—	—	7	—	23	2	4	0	1984	Diamond-back Moth
	2	0	—	—	0	—	0	7	2	7	1983	<i>Udea ferrugalis</i>
	0	2	—	—	0	—	1	0	0	4	1984	Rusty-dot Pearl

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Pest Species	Year	Halstead	Rothamsted (Barnfield)		Rothamsted (Allotments)		Rothamsted (Geescroft)		Writtle	Westonbirt	Hurley	Cardiff	Sheppey	Stratfield Mortimer	Wisley
		436	1	34	22	87	292	180	347	370	16	289			
<i>Abraxas grossulariata</i>	1983	49	7	1	15	—	1	—	0	2	10	0			
Magpie Moth	1984	47	5	0	43	9	8	0	0	5	19	0			
<i>Agrotis segetum</i>	1983	3	0	0	2	—	3	—	0	0	0	4			
Turnip Moth	1984	0	2	0	2	3	1	0	0	1	0	1			
<i>Erannis defoliaria</i>	1983	1	0	1	75	—	55	—	0	1	35	12			
Mottled Umber	1984	0	0	0	76	4	56	0	0	0	21	16			
<i>Phlogophora meticulosa</i>	1983	5	0	0	11	—	18	—	5	7	3	1			
Angle Shades	1984	3	2	2	17	3	4	3	3	3	3	3			
<i>Alsophila aescularia</i>	1983	1	2	0	21	—	15	—	0	2	21	14			
March Moth	1984	0	0	1	19	12	16	19	0	1	5	14			
<i>Hepialus humuli</i>	1983	3	2	9	4	—	2	—	0	0	3	0			
Ghost Swift	1984	0	2	4	12	0	1	0	0	0	0	0			
<i>Hepialus lupulinus</i>	1983	22	34	10	5	—	5	—	19	2	3	3			
Common Swift	1984	79	36	6	16	20	9	28	31	11	17	4			
<i>Agrotis ipsilon</i>	1983	1	0	0	0	—	12	—	0	0	0	0			
Dark Sword-grass	1984	0	0	0	1	0	1	0	0	0	0	0			
<i>Euproctis chryssorrhoea</i>	1983	0	0	0	0	—	0	—	0	3	0	1			
Brown-tail	1984	0	0	0	0	2	0	1	0	7	0	1			
<i>Agrotis exclamationis</i>	1983	8	30	10	28	—	8	—	12	46	14	15			
Heart and Dart	1984	10	168	35	142	147	104	82	40	63	50	59			
<i>Autographa gamma</i>	1983	3	20	5	7	—	17	—	34	39	4	17			
Silver Y	1984	3	11	1	10	16	17	1	24	42	4	7			
<i>Spodoptera exigua</i>	1983	0	0	0	0	—	0	—	0	0	0	0			
Small Mottled Willow	1984	0	0	0	0	0	0	0	0	0	0	0			
<i>Orthonama obstipata</i>	1983	0	0	0	0	—	0	—	0	0	0	0			
The Gem	1984	0	0	0	0	0	0	0	0	0	0	0			
<i>Nomophila noctuella</i>	1983	2	4	0	2	—	8	—	0	0	5	29			
Rush Veneer Pearl	1984	1	0	0	0	0	0	0	0	0	0	0			
<i>Plutella xylostella</i>	1983	4	513	301	1	—	0	—	49	340	4	484			
Diamond-back Moth	1984	2	24	11	0	0	0	5	11	20	0	41			
<i>Udea ferrugalis</i>	1983	0	1	1	0	—	2	—	0	0	1	34			
Rusty-dot Pearl	1984	1	0	1	1	0	0	1	1	0	2	14			

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	Alice Holt	Haslemere	Winchester	Lydd	Denny Lodge	Starcross	Yarner Wood	Rosewarne	Guernsey	Jersey	Year	Pest Species
	46	219	379	366	368	146	266	114	252	146		
	0	0	46	0	0	5	0	8	13	3	1983	<i>Abraxas grossulariata</i>
	0	0	37	0	0	5	2	4	23	0	1984	Magpie Moth
	0	0	0	0	0	0	11	2	4	1	1983	<i>Agrotis segetum</i>
	0	1	0	0	0	0	0	0	3	0	1984	Turnip Moth
	40	4	0	0	35	0	13	0	0	0	1983	<i>Erannis defoliaria</i>
	14	4	0	0	48	1	31	0	0	1	1984	Mottled Umber
	2	3	2	1	2	1	10	0	2	2	1983	<i>Phlogophora meticulosa</i>
	1	0	0	0	1	0	3	1	0	0	1984	Angle Shades
	30	4	1	0	5	0	56	5	0	10	1983	<i>Alsophila aescularia</i>
	15	7	3	0	15	3	34	2	0	6	1984	March Moth
	2	0	3	1	0	10	1	5	0	0	1983	<i>Hepialus humuli</i>
	2	0	0	1	0	3	0	1	0	0	1984	Ghost Swift
	1	0	11	58	0	2	0	0	0	0	1983	<i>Hepialus lupulinus</i>
	7	5	27	71	2	1	2	3	0	0	1984	Common Swift
	0	0	1	0	2	1	9	2	0	0	1983	<i>Agrotis ipsilon</i>
	0	0	0	0	0	0	2	2	1	1	1984	Dark Sword-grass
	0	0	0	218	13	0	0	0	3	5	1983	<i>Euproctis chryorrhoea</i>
	0	0	2	248	13	0	0	0	2	3	1984	Brown-tail
	19	14	54	16	4	18	26	55	18	11	1983	<i>Agrotis exclamationis</i>
	56	48	83	27	41	98	242	651	30	33	1984	Heart and Dart
	28	16	38	4	3	20	73	47	9	10	1983	<i>Autographa gamma</i>
	22	8	21	24	3	15	43	37	17	19	1984	Silver Y
	0	0	0	0	1	0	0	0	0	0	1983	<i>Spodoptera exigua</i>
	0	0	0	0	1	0	0	0	0	0	1984	Small Mottled Willow
	0	0	0	0	2	0	9	0	1	0	1983	<i>Orthonama obstipata</i>
	0	0	0	0	0	1	1	0	0	0	1984	The Gem
	35	3	2	0	—	51	—	145	73	48	1983	<i>Nomophila noctuella</i>
	0	0	0	0	—	1	—	3	7	3	1984	Rush Veneer Pearl
	69	44	3	0	—	145	—	2208	494	589	1983	<i>Plutella xylostella</i>
	6	0	0	0	—	11	—	232	74	74	1984	Diamond-back Moth
	15	3	3	0	—	48	—	73	300	80	1983	<i>Udea ferrugalis</i>
	3	0	0	0	—	1	—	20	46	4	1984	Rusty-dot Pearl