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Rothamsted Experimental Station Report for 1983

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Rothamsted Insect Survey, Fifteenth Annual Summary

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

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Rothamsted Insect Survey

Fifteenth Annual Summary

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JOAN NICKLEN

Suction traps 1983

Daily samples were collected from 5 April to 20 November 1983, except at the (906) Newcastle trap which did not operate until 11 May 1983. *Aphid Bulletins* were issued weekly from 25 April (*Bulletin* No. 1) to 20 November (*Bulletin* No. 30). The 33 aphid taxa listed in Table 1 (a–h) are those in the *Aphid Bulletin*.

Dr L. A. D. Turl and colleagues at the Department of Agriculture and Fisheries for Scotland (DAFS), East Craigs, are now entirely responsible for the operation of suction traps at (916) Elgin, (907) Dundee, (912) East Craigs, (931) Pathhead, (923) Auchincruive, Ayr and also (925) Stirling. The trap at (928) Rainham only operated from 16 February to 15 July; it only appeared on *Bulletins* up to 15 July and in Table 1 (a–d). Due to a blockage in the trap, the catches from (919) Shardlow, from 10 August (approx.) until 10 October 1983, are inaccurate. 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; Dr G. D. Heathcote 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 D. A. Cooper, Mr R. Burns and Dr K. Walters 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 these tables.

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 4-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: (901) Rothamsted Tower from 8 June to 6 September, (928) Rainham 9 June to 15 July, (919) Shardlow, (917) Hereford, (903) Wye and (933) Littlehampton from 9 June to 6 September, (914) Long Ashton from 9 June to 12 September, (922) Preston, (924) Writtle and (908) Silwood from 9 June to 13 September, (904) Broom's Barn from 24 June to 24 July, (905) High Mowthorpe, (934) Kirton and (913) Starcross from 12 July to 6 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.

ROTHAMSTED REPORT FOR 1983, PART 2

Light traps

Table 2 (a–f) gives the annual catches during 1981 and 1982 of the same pest, or migratory Lepidoptera as in previous years.

Eighty-four sites completed the 364-day sample for 1982.

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.

In addition to the species listed in the Table, there were others of note. Bretherton and Chalmers-Hunt (1983) reported 1982 as being an exceptional year for migrants, and survey sites reflected this. *Rhodometra saccharia*, The Vestal, normally extremely rare, was widespread, appearing mainly in the south and west (27 at site no. 114, Rosewarne in Cornwall; 12 at site no. 266, Yarner Wood in Devon) with one specimen in Scotland at site no. 339, Glentress. *Heliothis peltigera* appeared at two sites, no. 149, Starcross in Devon (1) and no. 339, Glentress in Peeblesshire (1). One specimen of *Palpita unionalis*, found at site no. 16, Stratfield Mortimer in Berkshire on 17 October, was surprising since none were found at other sites in the main waves of migrants. Site no. 114, Rosewarne, also caught three specimens of *Laphygma exigua* on 15 June, 17 July and 11 September, one *Leucania vitellina* on 15 September and one *Leucania unipuncta* on 18 September. The most surprising captures were two specimens of *Catocala nymphagoga* Esper, a species new to Britain, one at site no. 331, Tregaron in Central Wales on 28 July and a second at site no. 368, Denny Lodge in the New Forest, on 31 July (Tillotson, 1983).

Another first record, this time for site no. 146, Jersey, in 1981, was the capture of one specimen of *Heterostegane cararia* Hbn. in the period 1–3 August. This species has not previously been recorded in Jersey or mainland Britain.

Once again, voluntary workers operated most traps and identified many of the insects; for their help we are most grateful. Members of staff in the Entomology Department at the British Museum (Natural History) identified *Catocala nymphagoga* and confirmed the identification of *Heterostegane cararia* and we thank them for this.

References

- Bretherton, R. F. & Chalmers-Hunt, J. M. (1983) The immigration of Lepidoptera to the British Isles in 1982. *Entomologist's Record* **95**, 89–94, 141–152.
- Tillotson, I. J. L. (1983) *Catocala nymphagoga* Esper, and *Herminia zelleralis* Wocke: two species of Noctuidae new to Britain. *Entomologist's Record* **95**, 7–8.

TABLES 1(a)–1(h)
AND
TABLES 2(a)–2(f)

ROTHAMSTED INSECT SURVEY

1(a)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1983
26 March to 22 April 1983

										Sites	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)		
1			1	1	1				2			<i>Acyrtosiphon pisum</i> <i>Amphorophora rubi</i> <i>Aphis fabae</i> grp. <i>Aphis</i> spp. <i>Aulacorthum solani</i> <i>Brachycaudus helichrysi</i> <i>Brevicoryne brassicae</i> <i>Cavariella aegopodii</i> <i>Cinara</i> spp. <i>Drepanosiphum platanoidis</i> <i>Dysaphis plantaginea</i> <i>Elatobium abietinum</i> <i>Eriosoma ulmi</i> <i>Hyalopterus pruni</i> <i>Hyperomyzus lactucae</i> <i>Macrosiphum euphorbiae</i> <i>Megoura viciae</i> <i>Metopolophium dirhodum</i> <i>Metopolophium festucae s.l.</i> <i>Myzus ascalonicus</i> <i>Myzus certus</i> <i>Myzus ornatus</i> <i>Myzus persicae</i> grp. <i>Nasonovia ribisnigri</i> <i>Pemphigus</i> spp. <i>Pentatrachopus fragaefolii</i> <i>Phorodon humuli</i> <i>Phyllaphis fagi</i> <i>Rhopalosiphum insertum</i> <i>Rhopalosiphum maidis</i> <i>Rhopalosiphum padi</i> <i>Sitobion avenae</i> <i>Sitobion fragariae</i>
April 15	Jan 1-6		Jan 7-13	Feb 22	Jan 7-13	March 18-24		Jan 21-27	Jan 1-6	Feb 25- March 3		First aphid caught

Rainham 22 February, 1 *Sitobion avenae*
 Rosewarne 25 February-3 March, 1 *Sitobion fragariae*
 Starcross 4-10 March, 1 *Myzus ornatus*
 11-17 March, 2 *Myzus ornatus*
 Rainham 14 March, 1 *Metopolophium dirhodum*
 Silwood 18-24 March, 1 *Myzus ascalonicus*
 1 *Sitobion fragariae*
 Rosewarne 18-24 March, 1 *Aulacorthum solani*

ROTHAMSTED REPORT FOR 1983, PART 2

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

Species	Elgin (916)	Dundee (907)	Edinburgh (912)	Pathhead (931)	Auchincruive (923)	Newcastle (906)	Belfast (927)	High Mowthorpe (905)	Preston (922)	Kirtton (934)	Shardlow (919)	Aberystwyth (911)
<i>Acyrtosiphon pisum</i>											1	
<i>Amphorophora rubi</i>												
<i>Aphis fabae</i> grp.												
<i>Aphis</i> spp.									1			
<i>Aulacorthum solani</i>									1	1		
<i>Brachycaudus helichrysi</i>							1					
<i>Brevicoryne brassicae</i>												
<i>Cavariella aegopodii</i>							7		1	1		
<i>Cinara</i> spp.											2	
<i>Drepanosiphum platanoidis</i>		1			3		15		10		14	22
<i>Dysaphis plantaginea</i>												
<i>Elatobium abietinum</i>			2		12		9		3		7	70
<i>Eriosoma ulmi</i>												
<i>Hyalopterus pruni</i>												
<i>Hyperomyzus lactucae</i>												
<i>Macrosiphum euphorbiae</i>							4					
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>					1				4			
<i>Metopolophium festucae s.l.</i>					1	1	2			1	163	1
<i>Myzus ascalonicus</i>	3		1		1		10	3	4	4	7	
<i>Myzus certus</i>												
<i>Myzus ornatus</i>							5		1		2	
<i>Myzus persicae</i> grp.												1
<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								2		
<i>Sitobion avenae</i>												
<i>Sitobion fragariae</i>												1
First aphid caught	May 8	May 2	May 12		May 6	May 16		May 7	May 4	April 26		

ROTHAMSTED INSECT SURVEY

1(b)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1983
23 April to 20 May 1983

											Sites
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			4		3					<i>Acyrtosiphon pisum</i>
						1					<i>Amphorophora rubi</i>
		3	1	4			1	1			<i>Aphis fabae</i> grp.
			4	3	1					7	<i>Aphis</i> spp.
		5	4	11	1	2			1		<i>Aulacorthum solani</i>
											<i>Brachycaudus helichrysi</i>
	1		1	5	1	2	1	2	1	1	<i>Brevicoryne brassicae</i>
											<i>Cavariella aegopodii</i>
											<i>Cinara</i> spp.
1	5	4	11	8	7	435	1				<i>Drepanosiphum platanoidis</i>
2	2	14	4	1	13	49	12		3	2	<i>Dysaphis plantaginea</i>
											<i>Elatobium abietinum</i>
											<i>Eriosoma ulmi</i>
											<i>Hyalopterus pruni</i>
											<i>Hyperomyzus lactucae</i>
			2	12	3	1		1	3		<i>Macrosiphum euphorbiae</i>
											<i>Megoura viciae</i>
			1	7							<i>Metopolophium dirhodum</i>
3	2	2	4	4	2	2		2	2		<i>Metopolophium festucae</i> s.l.
3	10	20	24	38	12	20	3	1	1	1	<i>Myzus ascalonicus</i>
		2		1							<i>Myzus certus</i>
		5	3	3	6	2			1	1	<i>Myzus ornatus</i>
		1	3	3			2				<i>Myzus persicae</i> grp.
		1									<i>Nasonovia ribisnigri</i>
											<i>Pemphigus</i> spp.
											<i>Pentatrachopus fragaefolii</i>
											<i>Phorodon humuli</i>
		1				1	1	1			<i>Phyllaphis fagi</i>
		1	1	9	2	1	1			1	<i>Rhopalosiphum insertum</i>
											<i>Rhopalosiphum maidis</i>
2	1		1	9	1	1			2		<i>Rhopalosiphum padi</i>
	2	2	3	4	1	4	1	2	7		<i>Sitobion avenae</i>
			1	4	1	1		2		1	<i>Sitobion fragariae</i>
											First aphid caught
		April 26					April 29				

ROTHAMSTED REPORT FOR 1983, PART 2

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

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)
<i>Acyrtosiphon pisum</i>							3		1	1	3	1
<i>Amphorophora rubi</i>										1	3	2
<i>Aphis fabae</i> grp.								1	4	2	17	3
<i>Aphis</i> spp.									1	9	14	2
<i>Aulacorthum solani</i>							7		14	2	22	8
<i>Brachycaudus helichrysi</i>			5	2	6	2	92	82	123	197	794	60
<i>Brevicoryne brassicae</i>									1			
<i>Cavariella aegopodii</i>		1	4	2	11		26	36	154	98	461	22
<i>Cinara</i> spp.							1			1	5	
<i>Drepanosiphum platanoidis</i>	57	85	360	79	85	19	393	561	1679	70	791	532
<i>Dysaphis plantaginea</i>											2	1
<i>Elatobium abietinum</i>	15	29	49	63	42	114	194	108	52	34	47	731
<i>Eriosoma ulmi</i>									4		4	
<i>Hyalopterus pruni</i>							1					
<i>Hyperomyzus lactucae</i>				1	1		5		8	5	35	1
<i>Macrosiphum euphorbiae</i>	1	1	5	1	1	1	18		2	5	26	3
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>						1	4		11	2	12	3
<i>Metopolophium festucae s.l.</i>	1	3	9	5	1	17	29	298	58	104	224	8
<i>Myzus ascalonicus</i>	33	3	4	1	2	5	32	14	37	33	74	1
<i>Myzus certus</i>			1							4	13	
<i>Myzus ornatus</i>	1	1	4		1		28		1		27	2
<i>Myzus persicae</i> grp.		1	2						3	6	15	
<i>Nasonovia ribisnigri</i>							1		2	4	8	1
<i>Pemphigus</i> spp.												
<i>Pentatrachopus fragaefolii</i>										2		
<i>Phorodon humuli</i>									2	7	43	2
<i>Phyllaphis fagi</i>	1		1	7	1	1	44	2	27	8	35	5
<i>Rhopalosiphum insertum</i>			2	2	1	3	58	12	355	48	150	8
<i>Rhopalosiphum maidis</i>							1	1	1		1	2
<i>Rhopalosiphum padi</i>			6	2	21		31	1	27	19	37	33
<i>Sitobion avenae</i>		2	3	1	1	9	25	43	32	263	187	18
<i>Sitobion fragariae</i>			2				3	1	5	4	20	5
First aphid caught												
					May							
					21							

ROTHAMSTED INSECT SURVEY

1(c)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1983
21 May to 17 June 1983

											Sites	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)		
6	1	9	19	26	7	23	44		4	2		<i>Acyrtosiphon pisum</i>
			6	16	2	23	3	3	10	1		<i>Amphorophora rubi</i>
7	8	13	8	29	4	41	11	5	13	2		<i>Aphis fabae</i> grp.
1	1	20	38	148	9	59	14	18	10	2		<i>Aphis</i> spp.
4	6	3	18	15	9	17	4		24	35		<i>Aulacorthum solani</i>
429	2040	1963	2199	1580	984	1009	384	162	367	45		<i>Brachycaudus helichrysi</i>
7	3	8	74	88	1	49	6	1	10			<i>Brevicoryne brassicae</i>
298	519	583	597	732	420	633	246	264	233	24		<i>Cavariella aegopodii</i>
22	1	5	9	21	5	34	2	2	1			<i>Cinara</i> spp.
277	227	504	118	90	218	997	229	117	25	6		<i>Drepanosiphum platanoidis</i>
1		10	8	15	2	10	4	5				<i>Dysaphis plantaginea</i>
66	199	198	75	39	112	412	354	21	105	7		<i>Elatobium abietinum</i>
1	24	4	9	31	8	39	10					<i>Eriosoma ulmi</i>
		2	11	27	2	2	4	3	5			<i>Hyalopterus pruni</i>
3	17	48	35	36	26	45	11	9	2	2		<i>Hyperomyzus lactucae</i>
3	11	27	41	153	29	44	10	15	13	4		<i>Macrosiphum euphorbiae</i>
	4					2						<i>Megoura viciae</i>
4	11	12	35	90	13	14	7	6	37	4		<i>Metopolophium dirhodum</i>
109	47	73	54	33	48	81	26	8	33	6		<i>Metopolophium festucae s.l.</i>
18	25	72	47	45	31	55	19	9	10	4		<i>Myzus ascalonicus</i>
	8	5	5	24	5	15			3			<i>Myzus certus</i>
		16	11	12	21	8	18	3	1	4		<i>Myzus ornatus</i>
10	5	7	93	45	5	9	23	7	3	1		<i>Myzus persicae</i> grp.
	1	8	12	5	3	6		9				<i>Nasonovia ribisnigri</i>
			4					1				<i>Pemphigus</i> spp.
	2	1	1	9		4	1					<i>Pentatrachopus fragaefolii</i>
23	408	140	334	488	113	327	164	22	36			<i>Phorodon humuli</i>
14	32	44	21	14	23	85	28	7	23	4		<i>Phyllaphis fagi</i>
	192	163	121	136	189	102	24	27	35	21		<i>Rhopalosiphum insertum</i>
	1			2	2		2		9	1		<i>Rhopalosiphum maidis</i>
33	25	39	56	152	26	42	12	18	47	4		<i>Rhopalosiphum padi</i>
209	118	187	270	192	126	257	92	79	161	47		<i>Sitobion avenae</i>
11	7	19	25	82	52	98	10	24	74	17		<i>Sitobion fragariae</i>
												First aphid caught

ROTHAMSTED REPORT FOR 1983, PART 2

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

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)
<i>Acyrtosiphon pisum</i>	1	3	3	6		1	8	11	14	49	198	30
<i>Amphorophora rubi</i>			1	1		1		1		5	8	13
<i>Aphis fabae</i> grp.			2		3	1	2	1	10	27	110	27
<i>Aphis</i> spp.		4	12		20	1	28	10	30	85	136	9
<i>Aulacorthum solani</i>			5		1	3	5	8	20	15	36	5
<i>Brachycaudus helichrysi</i>	6	12	69	61	22	30	228	154	372	286	918	190
<i>Brevicoryne brassicae</i>							2	4		29	512	3
<i>Cavariella aegopodii</i>	2	12	58	35	40	26	59	180	302	279	1750	73
<i>Cinara</i> spp.	5	7	10	3	4	21	4	5	10	16	32	4
<i>Drepanosiphum platanoidis</i>	27	98	217	74	80	21	15	66	680	15	156	129
<i>Dysaphis plantaginea</i>								1			8	9
<i>Elatobium abietinum</i>	10	49	132	107	67	130	18	39	216		2	128
<i>Eriosoma ulmi</i>		12		4	3	15	6	26	120	20	54	3
<i>Hyalopterus pruni</i>	1	8	2			25	3	61	66	264	490	35
<i>Hyperomyzus lactucae</i>	2	2	20	4	6	1	23	6	20	28	46	15
<i>Macrosiphum euphorbiae</i>	3	2	45	4	6	16	29	2	20	186	128	31
<i>Megoura viciae</i>						2	3		2		2	3
<i>Metopolophium dirhodum</i>	1	18	24	17	40	8	17	25	26	35	194	31
<i>Metopolophium festucae</i> s.l.	7	49	125	320	37	102	22	418	48	62	70	13
<i>Myzus ascalonicus</i>	9	4	7	6	2	17	3	17	6	5	10	7
<i>Myzus certus</i>			4	1			6			14	26	
<i>Myzus ornatus</i>		1	3		1		1					
<i>Myzus persicae</i> grp.		1	12	2		1	5	15	12	46	1012	17
<i>Nasonovia ribisnigri</i>			4		1		1	1	2	1	6	6
<i>Pemphigus</i> spp.		1	2					1	10	100	116	1
<i>Pentatrichopus fragaefolii</i>			2		1	1					2	
<i>Phorodon humuli</i>		1	4	1			4	8	22	47	344	127
<i>Phyllaphis fagi</i>	2	3	5	5	11	8	5	18	114	10	114	5
<i>Rhopalosiphum insertum</i>			3	3	19	5	22	26	1118	417	1414	29
<i>Rhopalosiphum maidis</i>	2	4	9	10		22	6	8	10	18	4	7
<i>Rhopalosiphum padi</i>	12	46	86	34	13	47	39	40	16	634	184	38
<i>Sitobion avenae</i>	25	98	236	48	61	304	133	1271	854	2079	6090	1823
<i>Sitobion fragariae</i>	3	6	17	9	3	8	31	10	34	54	64	9

ROTHAMSTED INSECT SURVEY

1(d)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1983
18 June to 15 July 1983

											Sites
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
234	142	352	642	480	80	46	136	110	48	8	<i>Acyrtosiphon pisum</i>
19	42	10	48	26	30	40	20	20	39	3	<i>Amphorophora rubi</i>
156	140	228	910	294	122	112	126	140	140	41	<i>Aphis fabae</i> grp.
78	24	242	816	430	150	312	190	148	113	46	<i>Aphis</i> spp.
26	8	10	40	16	20	10	10	8	18	14	<i>Aulacorthum solani</i>
499	2018	844	1166	1220	390	432	224	186	275	65	<i>Brachycaudus helichrysi</i>
228	622	426	5880	1426	30	536	140	34	30	4	<i>Brevicoryne brassicae</i>
861	866	932	1806	1482	828	698	550	506	191	28	<i>Cavariella aegopodii</i>
263	10	16	98	58	20	24	26	28	10	2	<i>Cinara</i> spp.
50	52	46	82	28	40	38	16	66	19	28	<i>Drepanosiphum platanoidis</i>
22	28	16	108	120	54	32	16	28	13	2	<i>Dysaphis plantaginea</i>
	12	10			8		10		1		<i>Elatobium abietinum</i>
15	88	18	24	46	20	34	36	16	4	2	<i>Eriosoma ulmi</i>
300	422	668	2672	3498	962	1166	396	604	429	62	<i>Hyalopterus pruni</i>
68	10	104	146	72	38	14	36	34	10	3	<i>Hyperomyzus lactucae</i>
22	42	104	174	190	44	58	74	82	117	72	<i>Macrosiphum euphorbiae</i>
6	28	6	2	16	20	10	8	4	9	5	<i>Megoura viciae</i>
125	58	80	192	258	106	68	102	106	78	20	<i>Metopolophium dirhodum</i>
55	92	36	16	20	14	14	22	18	10	6	<i>Metopolophium festucae s.l.</i>
8	12	6	2		4		6			1	<i>Myzus ascalonicus</i>
8	2	2	16	6	2	6	4	6			<i>Myzus certus</i>
	2	4		8		2	2	2	3		<i>Myzus ornatus</i>
185	72	196	194	134	24	52	94	68	4	2	<i>Myzus persicae</i> grp.
	10	6	40	28	30	10		4	3	5	<i>Nasonovia ribisnigri</i>
8	44	12	124	58	16	30	32	22	9	1	<i>Pemphigus</i> spp.
			8								<i>Pentatrachopus fragaefolii</i>
1092	1652	824	4336	2240	2312	866	1194	738	297	3	<i>Phorodon humuli</i>
40	8	50	82	22	66	60	52	4	15	2	<i>Phyllaphis fagi</i>
596	3716	5124	2450	1238	668	1430	144	412	395	92	<i>Rhopalosiphum insertum</i>
34	24		14	20	6		24	14	30	10	<i>Rhopalosiphum maidis</i>
279	84	260	780	912	30	240	158	272	295	130	<i>Rhopalosiphum padi</i>
1961	2686	2258	2464	2422	7184	1786	1452	2842	1323	455	<i>Sitobion avenae</i>
79	236	210	306	324	112	246	96	150	142	50	<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1983, PART 2

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

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)
<i>Acyrtosiphon pisum</i>	11	208	11	70	3	10	1	76	12	96	30	5
<i>Amphorophora rubi</i>		3	2			1						
<i>Aphis fabae</i> grp.		4	12	8	54	8	59	32	68	106	82	54
<i>Aphis</i> spp.	1	43	74	2	8		53	6	22	202	148	6
<i>Aulacorthum solani</i>			1				1				2	
<i>Brachycaudus helichrysi</i>	3	38	40	75	5	8	3	14	2	38	10	8
<i>Brevicoryne brassicae</i>				1			5	4	4	34	260	
<i>Cavariella aegopodii</i>		9	48	78	3	10	9	102	16	20	16	7
<i>Cinara</i> spp.	3	7	3	9	19	21	2	2	4			
<i>Drepanosiphum platanoidis</i>	26	24	16	11	13	6	10	6	384	6	50	21
<i>Dysaphis plantaginea</i>									2	2	2	4
<i>Elatobium abietinum</i>			1	1								
<i>Eriosoma ulmi</i>		4	1					6	10			
<i>Hyalopterus pruni</i>	2	13		6	12	2	58	116	202	230	640	42
<i>Hyperomyzus lactucae</i>		6	3	4	1		19	8		2	2	2
<i>Macrosiphum euphorbiae</i>	9	79	49	23	52	1	82		4	10	8	7
<i>Megoura viciae</i>				1	1	5	3		2			2
<i>Metopolophium dirhodum</i>	256	451	679	325	144	12	82	12	6	16	10	4
<i>Metopolophium festucae</i> s.l.	117	108	107	450	57	5	6	6	2	2		
<i>Myzus ascalonicus</i>			4	1			1					
<i>Myzus certus</i>			1	1	1	1				10		
<i>Myzus ornatus</i>			2									
<i>Myzus persicae</i> grp.	1	17	7	2	6	2	3	12	2	10	58	
<i>Nasonovia ribisnigri</i>	2			1			7	2		4	4	4
<i>Pemphigus</i> spp.	1	4	10	4	4	7	8	2	20	50	18	5
<i>Pentatrichopus fragaefolii</i>											2	
<i>Phorodon humuli</i>		1	3	1	1		7	4	2	4	18	2
<i>Phyllaphis fagi</i>		2	2	1	2	7	2			4	2	2
<i>Rhopalosiphum insertum</i>	1	37	207	165	3883	62	1151	418	3654	1478	1076	119
<i>Rhopalosiphum maidis</i>	11	11	3	5	3	9	26	6	4	20	2	8
<i>Rhopalosiphum padi</i>	191	656	1542	409	696	138	271	170	198	642	60	26
<i>Sitobion avenae</i>	479	894	375	634	652	337	1417	1114	506	1384	782	410
<i>Sitobion fragariae</i>	4	8	27	36	32	9	115	14	20	26	18	2

ROTHAMSTED INSECT SURVEY

1(e)

*of aphids of economic, or other, interest reported in the Weekly Bulletin 1983
16 July to 12 August 1983*

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)	Sites
											Species
61	8	28	96		4	6	22	34	32	3	<i>Acyrtosiphon pisum</i>
								2		1	<i>Amphorophora rubi</i>
190	6	138	182		24	24	46	30	96	20	<i>Aphis fabae</i> grp.
49	6	216	412		64	162	130	94	102		<i>Aphis</i> spp.
5			2								<i>Aulacorthum solani</i>
13	10	10	10		10	2	18	12	12	3	<i>Brachycaudus helichrysi</i>
74	144	58	284		8	24	70	8	22	15	<i>Brevicoryne brassicae</i>
6	8	4	14			4	6	2	10	3	<i>Cavariella aegopodii</i>
4						2	4				<i>Cinara</i> spp.
20	2	26	10		6	40	16	8	4	10	<i>Drepanosiphum platanoidis</i>
			2		4	4		4			<i>Dysaphis plantaginea</i>
						2					<i>Elatobium abietinum</i>
									4		<i>Eriosoma ulmi</i>
555	256	642	958	Trap not operating	760	412	612	528	454	37	<i>Hyalopterus pruni</i>
4		8	4		4	8	14	8			<i>Hyperomyzus lactucae</i>
2		6	12		8	2	2	8	20	13	<i>Macrosiphum euphorbiae</i>
2	8		12			20	10	4	4	2	<i>Megoura viciae</i>
41	4	22	46		4	12	58	60	20	2	<i>Metopolophium dirhodum</i>
					4						<i>Metopolophium festucae s.l.</i>
											<i>Myzus ascalonicus</i>
											<i>Myzus certus</i>
											<i>Myzus ornatus</i>
36			14				4	8			<i>Myzus persicae</i> grp.
5		4	4			2	10		6	4	<i>Nasonovia ribisnigri</i>
12	12	6	36		2		10	2	4	5	<i>Pemphigus</i> spp.
								2			<i>Pentatrichopus fragaefolii</i>
65	12	22	60		70	18	68	32	46	1	<i>Phorodon humuli</i>
			6		2	2	20			1	<i>Phyllaphis fagi</i>
396	1570	3522	758		460	456	382	594	710	312	<i>Rhopalosiphum insertum</i>
1	2	16			2	2	10	4	36	21	<i>Rhopalosiphum maidis</i>
213	32	148	476		36	102	268	236	204	219	<i>Rhopalosiphum padi</i>
701	170	826	810		444	506	872	510	954	232	<i>Sitobion avenae</i>
29	22	46	48		30	30	142	58	142	50	<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1983, PART 2

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

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)
<i>Acyrtosiphon pisum</i>	9	29	1	4		2	2	3	4	3		1
<i>Amphorophora rubi</i>		1										
<i>Aphis fabae</i> grp.	4	23	29	50	82	13	19	2	25	14	2	3
<i>Aphis</i> spp.		6	9	4	1	3	6	4	19	27		7
<i>Aulacorthum solani</i>									2			
<i>Brachycaudus helichrysi</i>	10	136	36	35	10	16	13	8	48	30		6
<i>Brevicoryne brassicae</i>		2		5	1	1	13		2	12	4	1
<i>Cavariella aegopodii</i>		2	2			1			2			
<i>Cinara</i> spp.	18	6	1		1		1					
<i>Drepanosiphum platanoidis</i>	6	45	10	6	13	6		8	162	2		82
<i>Dysaphis plantaginea</i>												
<i>Elatobium abietinum</i>												
<i>Eriosoma ulmi</i>	3	2	2		2		3	2				
<i>Hyalopterus pruni</i>	2	11	4	3	1	5	39	2	56	38		
<i>Hyperomyzus lactucae</i>	1	1			1		2		2	1		
<i>Macrosiphum euphorbiae</i>	9	23		1	2		12	2	2	6		1
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>	12	22	4	2	8	2	3		4	2		1
<i>Metopolophium festucae</i> s.l.	17	9			7	2	4		8			1
<i>Myzus ascalonicus</i>												
<i>Myzus certus</i>							1		1			
<i>Myzus ornatus</i>												
<i>Myzus persicae</i> grp.	2	5		4	3		1		6	5		4
<i>Nasonovia ribisnigri</i>	1				1					2		
<i>Pemphigus</i> spp.	4	3	3	2	7	7	10	3	216	21		158
<i>Pentatrichopus fragaefolii</i>												
<i>Phorodon humuli</i>												
<i>Phyllaphis fagi</i>												
<i>Rhopalosiphum insertum</i>	12	146	462	617	3490	251	1060	195	648	211	14	191
<i>Rhopalosiphum maidis</i>		7	1			5	2	4	2			1
<i>Rhopalosiphum padi</i>	564	883	993	647	1641	178	662	71	308	461	5	179
<i>Sitobion avenae</i>	124	199	67	96	53	92	220	65	128	72	4	46
<i>Sitobion fragariae</i>	1	6	3	11	3	1	8		14	6		3

ROTHAMSTED INSECT SURVEY

1(f)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1983
13 August to 9 September 1983

										Sites	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)		
1		4	2		4			4		2		<i>Acyrtosiphon pisum</i>
1								2		4		<i>Amphorophora rubi</i>
1	4	20	20		10	26	4	15	6	15		<i>Aphis fabae</i> grp.
												<i>Aphis</i> spp.
6	18	14			10	6	7	32	10	3		<i>Aulacorthum solani</i>
2	3	2	2		8	6	2	4	446	24		<i>Brachycaudus helichrysi</i>
									2			<i>Brevicoryne brassicae</i>
							2					<i>Cavariella aegopodii</i>
5		10	6		12	40	8	16	2	4		<i>Cinara</i> spp.
												<i>Drepanosiphum platanoidis</i>
												<i>Dysaphis plantaginea</i>
2						2	1					<i>Elatobium abietinum</i>
3	10	10	8		20	4	2	17	6			<i>Eriosoma ulmi</i>
1	4	2	2				37		2			<i>Hyalopterus pruni</i>
1							4					<i>Hyperomyzus lactucae</i>
1	2						2	2		3		<i>Macrosiphum euphorbiae</i>
1												<i>Megoura viciae</i>
					2		2					<i>Metopolophium dirhodum</i>
												<i>Metopolophium festucae s.l.</i>
												<i>Myzus ascalonicus</i>
									2			<i>Myzus certus</i>
												<i>Myzus ornatus</i>
7	4	8	2				8	7	17	5		<i>Myzus persicae</i> grp.
												<i>Nasonovia ribisnigri</i>
7	10	15			24	32	16	13	89	18		<i>Pemphigus</i> spp.
	49					2	11					<i>Pentatrachopus fragaefolii</i>
												<i>Phorodon humuli</i>
7	248	70	26		84	56	110	103	264	73		<i>Phyllaphis fagi</i>
					2		8		4	2		<i>Rhopalosiphum insertum</i>
19	44	30	8		20	12	37	29	121	85		<i>Rhopalosiphum maidis</i>
11	56	38	18		24	20	11	23	48	30		<i>Rhopalosiphum padi</i>
1					4		2	2	8	1		<i>Sitobion avenae</i>
												<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1983, PART 2

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

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)
<i>Acyrtosiphon pisum</i>									1	2		
<i>Amphorophora rubi</i>												
<i>Aphis fabae</i> grp.	1	1	1		1	3	5	3	25	42		11
<i>Aphis</i> spp.		1	1		1	1		1	6	23		7
<i>Aulacorthum solani</i>										2		1
<i>Brachycaudus helichrysi</i>	7	33	24	33	15	10	14	11	54	42	2	28
<i>Brevicoryne brassicae</i>		1			1	1			7	182	1	
<i>Cavariella aegopodii</i>	1				1					1		1
<i>Cinara</i> spp.	1					1						
<i>Drepanosiphum platanoidis</i>	3	21		1	5	1	8	2	42	1		3
<i>Dysaphis plantaginea</i>									1	3		2
<i>Elatobium abietinum</i>												1
<i>Eriosoma ulmi</i>		2	1	1	1	3	3	1		10		2
<i>Hyalopterus pruni</i>		9		1		1	4		4	11		2
<i>Hyperomyzus lactucae</i>	1					1			1	11		5
<i>Macrosiphum euphorbiae</i>		1							12	15		1
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>				1		1		1	14	1		
<i>Metopolophium festucae</i> s.l.	2											
<i>Myzus ascalonicus</i>				1								
<i>Myzus certus</i>	3	5	1	1	3					1		
<i>Myzus ornatus</i>				2								1
<i>Myzus persicae</i> grp.		5				3	3	1	19	60		19
<i>Nasonovia ribisnigri</i>								1	1	9		2
<i>Pemphigus</i> spp.	42	54	14	26	53	35	28	17	351	96	3	308
<i>Pentatrichopus fragaefolii</i>												
<i>Phorodon humuli</i>												
<i>Phyllaphis fagi</i>												
<i>Rhopalosiphum insertum</i>	42	430	424	674	679	697	3448	199	1844	135		3251
<i>Rhopalosiphum maidis</i>							6	4	3	15		2
<i>Rhopalosiphum padi</i>	1089	5086	1112	1644	1034	892	2408	198	2669	212	2	1608
<i>Sitobion avenae</i>	4	2		1	1	1	7	1	6	5		5
<i>Sitobion fragariae</i>			2			1	2	1	6	1		1

ROTHAMSTED INSECT SURVEY

1(g)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1983
10 September to 7 October 1983

											Sites
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	1		2		21	3		1	<i>Acyrtosiphon pisum</i>
16	1	3	9		3	4	5	3	1	3	<i>Amphorophora rubi</i>
2	7	8	14		11	22	43	18	9	3	<i>Aphis fabae</i> grp.
1		1				1					<i>Aphis</i> spp.
26	18	18	6		27	14	23	100	35	9	<i>Aulacorthum solani</i>
24	923	25	81		28	17	59	14	393	53	<i>Brachycaudus helichrysi</i>
		1	2		2	1		2			<i>Brevicoryne brassicae</i>
		1									<i>Cavariella aegopodii</i>
5	1	8	15		4	10	9	12		20	<i>Cinara</i> spp.
22	6		17		4	2		2	8	1	<i>Drepanosiphum platanoidis</i>
			2								<i>Dysaphis plantaginea</i>
7	12	2	1		1	9	6	1		2	<i>Elatobium abietinum</i>
2					4	4		2	1	2	<i>Eriosoma ulmi</i>
8	10	1	4		3	2	18	4	2		<i>Hyalopterus pruni</i>
2	1	2	1		1	2	2			1	<i>Hyperomyzus lactucae</i>
											<i>Macrosiphum euphorbiae</i>
1	1				1	3	4				<i>Megoura viciae</i>
								1			<i>Metopolophium dirhodum</i>
4	1		1		1						<i>Metopolophium festucae</i> s.l.
					5	4	1	2			<i>Myzus ascalonicus</i>
						2		3		1	<i>Myzus certus</i>
97	113	7	41		23	7	102	56	27	9	<i>Myzus ornatus</i>
5	1	1	2			2	6	2	2	2	<i>Myzus persicae</i> grp.
35	41	13	46		52	89	42	68	31	33	<i>Nasonovia ribisnigri</i>
	556	1	2		1	1	960	6			<i>Pemphigus</i> spp.
											<i>Pentatrachopus fragaefolii</i>
											<i>Phorodon humuli</i>
33	106	46	22		120	110	114	168	271	129	<i>Phyllaphis fagi</i>
	5	2	5		1	10	5	26	4	4	<i>Rhopalosiphum insertum</i>
221	513	174	334		607	513	782	1507	268	111	<i>Rhopalosiphum maidis</i>
4	4	2	1		4	1	5	1		2	<i>Rhopalosiphum padi</i>
1	1				8	2	3				<i>Sitobion avenae</i>
											<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1983, PART 2

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

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)
<i>Acyrtosiphon pisum</i>											1	
<i>Amphorophora rubi</i>												
<i>Aphis fabae</i> grp.										49	2	
<i>Aphis</i> spp.										97	5	3
<i>Aulacorthum solani</i>					1					4	1	
<i>Brachycaudus helichrysi</i>		3	1	2	1		2		2	4	2	1
<i>Brevicoryne brassicae</i>										5	7	
<i>Cavariella aegopodii</i>		1							1	2	1	
<i>Cinara</i> spp.												
<i>Drepanosiphum platanoidis</i>		19			2		4		15	4	4	5
<i>Dysaphis plantaginea</i>								1			5	7
<i>Elatobium abietinum</i>												
<i>Eriosoma ulmi</i>		33	4			1	2		2	26	8	6
<i>Hyalopterus pruni</i>										2		
<i>Hyperomyzus lactucae</i>			1	1					2	6	5	2
<i>Macrosiphum euphorbiae</i>							1			6	2	
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>		1				1		2	13	3	1	
<i>Metopolophium festucae</i> s.l.												5
<i>Myzus ascalonicus</i>												
<i>Myzus certus</i>	3	4	1	2								
<i>Myzus ornatus</i>		1			1							
<i>Myzus persicae</i> grp.					1			1	2	48	5	3
<i>Nasonovia ribisnigri</i>								2	2	2		3
<i>Pemphigus</i> spp.	8	2	16	3	5	5	4	2	8	68	18	3
<i>Pentatrichopus fragaefolii</i>												
<i>Phorodon humuli</i>											5	
<i>Phyllaphis fagi</i>							1			1	1	
<i>Rhopalosiphum insertum</i>	6	15	45	6	64	135	191	29	441	112	89	394
<i>Rhopalosiphum maidis</i>												2
<i>Rhopalosiphum padi</i>	180	1102	692	214	496	119	318	66	600	382	539	136
<i>Sitobion avenae</i>								2	1	7	1	
<i>Sitobion fragariae</i>						2	4		23	6		13

ROTHAMSTED INSECT SURVEY

1(h)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1983
8 October to 4 November 1983

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		<i>Acyrtosiphon pisum</i>
47		1	7			1		2	2		<i>Amphorophora rubi</i>
2			7		1	4	12	8	1		<i>Aphis fabae</i> grp.
1			1		1	1	4	1			<i>Aphis</i> spp.
1		2			4	1	1	11	1	3	<i>Aulacorthum solani</i>
	34	1	12		10	2	7	3	4	3	<i>Brachycaudus helichrysi</i>
2		1			2		2		1		<i>Brevicoryne brassicae</i>
							1				<i>Cavariella aegopodii</i>
17		7	3		5	5	3		3	3	<i>Cinara</i> spp.
1		2	2		5	1	3				<i>Drepanosiphum platanoidis</i>
											<i>Dysaphis plantaginea</i>
2	27	3	17		1		6	2		5	<i>Elatobium abietinum</i>
											<i>Eriosoma ulmi</i>
4	3		3		3		2	2	1		<i>Hyalopterus pruni</i>
2					1			1			<i>Hyperomyzus lactucae</i>
											<i>Macrosiphum euphorbiae</i>
1	1				1	1		2			<i>Megoura viciae</i>
	3				1				1		<i>Metopolophium dirhodum</i>
1	1										<i>Metopolophium festucae</i> s.l.
									5		<i>Myzus ascalonicus</i>
											<i>Myzus certus</i>
						1		1			<i>Myzus ornatus</i>
46	28	2	17		15	7	24	30	14	7	<i>Myzus persicae</i> grp.
1	2		1		2	2	2	3	4	3	<i>Nasonovia ribisnigri</i>
25	12	5	12		91	22	33	31	92	8	<i>Pemphigus</i> spp.
					1						<i>Pentatrichopus fragaefolii</i>
2	6				2	3	68	1			<i>Phorodon humuli</i>
							1				<i>Phyllaphis fagi</i>
35	68	287	62		167	87	117	279	852	466	<i>Rhopalosiphum insertum</i>
1			2		2		2	17	6	4	<i>Rhopalosiphum maidis</i>
248	340	164	282		617	417	890	456	704	329	<i>Rhopalosiphum padi</i>
	4				5	2	7	8	8	3	<i>Sitobion avenae</i>
1	10	3	4		22	11	16	16	9	5	<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1983, PART 2

TABLE
The Rothamsted Insect Survey—Light Traps: annual records

Pest Species	Year	415 Reay	430 Latheron	418 Stronchrubic	352 Inverpolly	421 Morvich	398 Cromarty	58 Newton, Elgin	350 Beinn Eighe	49 Fort Augustus	29 Rannoch	97 Rowardennan	261 East Craigs	375 St Abb's	339 Glentress
<i>Gortyna micacea</i> Rosy Rustic	1981	233	—	9	57	—	77	180	92	49	123	20	12	—	60
	1982	244	185	8	60	77	178	136	83	51	127	29	7	248	130
<i>Bupalus piniaria</i> Bordered White	1981	0	—	0	0	—	0	1	0	1	0	0	0	—	0
	1982	0	0	0	0	0	0	0	1	0	0	0	0	0	1
<i>Panolis flammea</i> Pine Beauty	1981	0	—	0	0	—	0	0	1	4	0	0	0	—	0
	1982	0	0	0	0	0	0	7	2	21	11	0	0	6	0
<i>Cerapteryx graminis</i> Antler Moth	1981	87	—	105	123	—	26	24	108	58	58	1	2	—	77
	1982	147	140	216	229	308	61	24	144	112	168	15	2	46	184
<i>Erannis aurantiaria</i> Scarce Umber	1981	0	—	0	16	—	9	12	0	35	30	15	0	—	0
	1982	0	—	0	35	16	81	12	0	21	32	2	0	7	4
<i>Operophtera fagata</i> Northern Winter Moth	1981	0	—	0	9	—	6	1	3	4	20	26	0	—	2
	1982	0	—	0	3	8	1	0	0	4	7	10	0	0	0
<i>Apamea sordens</i> Rustic Shoulder-knot	1981	0	—	0	0	—	2	2	0	1	0	0	3	—	0
	1982	0	0	0	0	0	9	1	0	2	0	0	3	0	1
<i>Gortyna flavago</i> Frosted Orange	1981	0	—	0	0	—	0	10	0	0	0	0	0	—	0
	1982	0	0	0	0	0	0	24	0	0	0	0	0	0	5
<i>Mamestra brassicae</i> Cabbage Moth	1981	0	—	0	0	—	0	1	0	8	0	0	1	—	2
	1982	1	0	0	0	0	0	0	0	5	0	0	2	2	0
<i>Noctua pronuba</i> Large Yellow Underwing	1981	1	—	4	16	—	77	55	13	7	0	8	4	—	11
	1982	1	20	6	10	31	55	19	5	4	2	23	7	76	16
<i>Diataraxia oleracea</i> Bright-line Brown-eye	1981	0	—	0	3	—	0	4	0	0	0	0	0	—	0
	1982	0	3	0	6	0	0	5	2	0	0	0	1	0	0
<i>Euxoa nigricans</i> Garden Dart	1981	0	—	0	0	—	0	0	0	0	0	0	0	—	0
	1982	3	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Apamea secalis</i> Common Rustic	1981	22	—	0	8	—	10	37	5	1	0	0	21	—	15
	1982	5	3	1	4	5	44	6	6	8	0	2	29	139	4
<i>Melanchra persicariae</i> Dot Moth	1981	0	—	0	0	—	0	0	0	0	0	0	0	—	0
	1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Operophtera brumata</i> Winter Moth	1981	0	—	0	5	—	4	4	9	6	4	56	0	—	3
	1982	0	—	0	26	13	17	2	150	22	8	125	0	25	2

ROTHAMSTED INSECT SURVEY

2(a) of moths of economic, or other importance for 1981 and 1982

	Newton by the Sea	Culzean Castle	Auchincruive	Waterside Mains	Kielder	Stocksfield	Chester le Street	Hamsterley	Forest in Teesdale	Windermere	Wykeham	Arnside	Baldersby	Castletown, I.O.M.	Year	Pest Species
	426	264	293	338	296	362	39	425	416	323	187	403	315	306		
239	27	7	203	32	—	9	—	2	6	121	—	79	36	1981	<i>Gortyna micacea</i>	
426	62	10	372	119	74	49	44	21	1	144	74	123	32	1982	Rosy Rustic	
0	1	0	0	0	—	0	—	0	1	5	—	0	0	1981	<i>Bupalus piniaria</i>	
0	2	0	0	0	0	0	5	0	0	0	0	0	0	1982	Bordered White	
0	1	0	0	0	—	0	—	0	0	1	—	0	0	1981	<i>Panolis flammea</i>	
0	3	0	0	0	0	0	1	0	0	8	3	1	0	1982	Pine Beauty	
45	33	8	20	13	—	0	—	38	9	10	—	0	5	1981	<i>Cerapteryx graminis</i>	
62	318	75	186	39	15	0	62	186	46	44	54	2	16	1982	Antler Moth	
3	4	0	21	23	—	0	—	0	0	8	—	4	0	1981	<i>Erannis aurantiaria</i>	
1	0	0	26	37	0	0	24	1	0	16	0	0	0	1982	Scarce Umber	
0	1	0	33	13	—	0	—	1	0	44	—	0	0	1981	<i>Operophtera fagata</i>	
2	0	0	100	15	1	0	19	3	0	18	1	0	0	1982	Northern Winter Moth	
0	0	1	1	0	—	1	—	0	0	1	—	3	1	1981	<i>Apamea sordens</i>	
0	0	4	0	0	0	6	1	0	4	0	0	9	3	1982	Rustic Shoulder-knot	
16	0	0	7	0	—	0	—	0	0	1	—	3	0	1981	<i>Gortyna flavago</i>	
37	3	2	8	0	2	0	1	0	0	1	11	25	4	1982	Frosted Orange	
0	0	0	0	0	—	10	—	0	6	0	—	7	0	1981	<i>Mamestra brassicae</i>	
0	0	0	0	1	0	8	0	0	2	2	1	15	0	1982	Cabbage Moth	
17	12	7	127	5	—	9	—	5	45	17	—	11	16	1981	<i>Noctua pronuba</i>	
49	12	29	55	18	260	30	33	5	86	25	16	41	56	1982	Large Yellow Underwing	
2	6	0	2	0	—	1	—	0	0	0	—	2	7	1981	<i>Diataraxia oleracea</i>	
25	0	9	0	0	0	1	0	0	0	0	0	3	7	1982	Bright-line Brown-eye	
0	0	0	0	0	—	1	—	0	0	0	—	0	0	1981	<i>Euxoa nigricans</i>	
1	0	0	0	0	0	3	0	0	0	0	3	0	0	1982	Garden Dart	
97	4	13	5	2	—	29	—	1	24	6	—	54	70	1981	<i>Apamea secalis</i>	
70	1	41	8	3	32	37	2	0	18	4	5	132	82	1982	Common Rustic	
0	0	0	0	0	—	0	—	0	8	0	—	0	0	1981	<i>Melanchna persicariae</i>	
0	0	0	0	0	0	0	0	0	22	0	0	0	0	1982	Dot Moth	
1	1	0	32	22	—	1	—	0	2	2	—	7	10	1981	<i>Operophtera brumata</i>	
4	20	0	69	18	0	1	14	2	10	6	37	14	12	1982	Winter Moth	

ROTHAMSTED REPORT FOR 1983, PART 2

TABLE
The Rothamsted Insect Survey—Light Traps: annual records

Pest Species	Year	Harrogate	Spurn Head	East Didsbury	Beaumaris	Bangor	Jodrell Bank	Gleadthorpe	Sherwood Forest	Matlock	Gibraltar Point	Empingham	Wells next the Sea	Shardlow	Sutton Bonington
		410	131	269	438	35	337	257	439	279	223	280	274	378	168
<i>Gortyna micacea</i> Rosy Rustic	1981	29	21	16	—	0	50	36	—	6	15	3	1	3	23
	1982	34	17	18	297	0	62	57	16	9	20	7	1	10	33
<i>Bupalus piniaria</i> Bordered White	1981	0	0	0	—	0	0	0	—	0	0	0	0	0	0
	1982	0	0	0	0	0	0	0	0	2	0	0	0	0	0
<i>Panolis flammea</i> Pine Beauty	1981	0	0	0	—	0	0	0	—	0	0	0	0	0	0
	1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cerapteryx graminis</i> Antler Moth	1981	3	66	0	—	0	25	10	—	0	4	0	0	0	0
	1982	6	71	0	6	1	31	4	145	2	10	0	0	0	0
<i>Erannis aurantiaria</i> Scarce Umber	1981	36	1	0	—	0	15	3	—	1	0	1	0	1	1
	1982	40	0	0	0	0	6	2	14	0	0	1	0	0	2
<i>Operophtera fagata</i> Northern Winter Moth	1981	27	0	0	—	0	1	9	—	0	0	0	0	0	0
	1982	7	0	0	0	0	0	1	38	0	0	0	0	0	0
<i>Apamea sordens</i> Rustic Shoulder-knot	1981	0	2	0	—	0	0	0	—	1	9	0	0	0	3
	1982	0	10	2	0	0	0	0	2	3	20	0	0	1	4
<i>Gortyna flavago</i> Frosted Orange	1981	1	2	1	—	0	2	10	—	0	0	0	0	0	2
	1982	7	7	0	10	0	4	21	1	2	2	1	0	3	1
<i>Mamestra brassicae</i> Cabbage Moth	1981	0	1	2	—	1	0	2	—	8	0	2	0	7	3
	1982	0	2	0	4	5	0	2	0	9	0	24	2	3	0
<i>Noctua pronuba</i> Large Yellow Underwing	1981	13	38	5	—	4	6	6	—	62	1	23	0	6	54
	1982	48	213	10	50	24	17	14	2	98	9	15	1	19	63
<i>Diataraxia oleracea</i> Bright-line Brown-eye	1981	1	18	0	—	0	0	12	—	5	1	2	0	23	19
	1982	1	57	0	1	1	0	7	3	1	4	2	3	9	14
<i>Euxoa nigricans</i> Garden Dart	1981	0	0	0	—	0	2	0	—	0	0	0	0	0	0
	1982	0	0	0	0	0	5	1	0	0	0	1	0	1	0
<i>Apamea secalis</i> Common Rustic	1981	19	29	1	—	11	13	38	—	35	10	27	8	46	145
	1982	29	58	9	44	13	10	24	5	56	51	26	14	46	108
<i>Melanchra persicariae</i> Dot Moth	1981	0	2	0	—	0	0	0	—	0	0	7	0	2	0
	1982	0	0	0	0	0	0	1	1	1	0	15	0	2	1
<i>Operophtera brumata</i> Winter Moth	1981	26	4	0	—	0	12	8	—	1	0	17	0	2	5
	1982	31	2	1	15	0	17	13	8	1	0	2	0	0	4

ROTHAMSTED INSECT SURVEY

2(b)
of moths of economic, or other importance for 1981 and 1982

														Year	Pest Species
381	382	424	267	259	340	94	277	88	331	111	360	414	440	1981	<i>Gortyna micacea</i>
15	56	55	0	9	16	23	9	2	40	7	12	3	—	1982	Rosy Rustic
13	36	41	0	23	37	20	10	4	173	62	5	6	46		
0	0	0	0	0	0	0	0	0	0	0	0	0	—	1981	<i>Bupalus piniaria</i>
0	0	0	0	0	0	0	0	0	0	2	0	0	0	1982	Bordered White
0	0	0	0	4	0	1	0	0	0	2	0	0	—	1981	<i>Panolis flammea</i>
0	0	0	0	4	0	2	0	0	0	3	0	0	0	1982	Pine Beauty
0	1	1	0	2	3	0	0	1	153	2	0	0	—	1981	<i>Cerapteryx graminis</i>
1	5	0	0	19	44	0	0	0	897	25	0	1	283	1982	Antler Moth
0	1	0	0	1	0	0	111	0	50	24	0	0	—	1981	<i>Erannis aurantiaria</i>
0	2	0	0	3	2	0	13	0	20	42	0	0	0	1982	Scarce Umber
0	0	0	0	5	0	7	110	0	72	0	3	0	—	1981	<i>Operophtera fagata</i>
0	0	0	0	0	0	2	57	0	52	0	0	0	0	1982	Northern Winter Moth
2	0	1	0	2	0	0	1	0	0	0	6	3	—	1981	<i>Apamea sordens</i>
6	0	0	0	1	0	1	1	0	0	0	7	8	0	1982	Rustic Shoulder-knot
3	3	0	0	4	0	1	2	1	5	0	5	2	—	1981	<i>Gortyna flavago</i>
5	3	0	0	8	0	8	5	0	32	3	7	2	3	1982	Frosted Orange
7	1	0	0	3	1	1	0	3	0	0	9	7	—	1981	<i>Mamestra brassicae</i>
2	0	0	0	3	0	2	1	7	0	0	0	3	0	1982	Cabbage Moth
2	10	7	2	0	22	3	59	0	31	17	7	5	—	1981	<i>Noctua pronuba</i>
3	59	30	0	1	49	3	15	4	82	10	2	8	57	1982	Large Yellow Underwing
8	3	2	0	0	0	0	0	2	3	0	17	2	—	1981	<i>Diataraxia oleracea</i>
6	0	1	0	0	0	0	0	1	8	0	5	2	4	1982	Bright-line Brown-eye
0	0	1	0	0	0	0	0	0	0	0	4	0	—	1981	<i>Euxoa nigricans</i>
0	0	1	1	0	0	0	6	3	0	0	0	0	3	1982	Garden Dart
9	247	4	3	3	27	37	11	9	4	6	41	20	—	1981	<i>Apamea secalis</i>
20	259	15	0	4	62	18	24	20	26	13	25	12	111	1982	Common Rustic
0	0	0	0	2	0	2	0	2	0	0	3	5	—	1981	<i>Melanchra persicariae</i>
4	0	0	1	0	0	2	0	0	1	0	8	8	7	1982	Dot Moth
0	15	0	0	2	1	1	722	0	102	19	3	0	—	1981	<i>Operophtera brumata</i>
0	5	3	0	21	3	2	601	1	107	85	8	5	0	1982	Winter Moth

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TABLE
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Pest Species	Year	Cockayne Hatley	Hereford	Rhandirmwyn	Trelech	Halstead	Eaton Bray	Rothamsted (Barnfield)	Rothamsted (Allotments)	Rothamsted (Geescroft)	Wickham Bishops	Chalfont St Giles	Chigwell Row	Westonbirt	Hurley
		336	212	346	233	436	412	1	34	22	120	435	305	292	180
<i>Gortyna micacea</i> Rosy Rustic	1981	9	27	17	64	—	6	11	47	5	24	—	1	4	7
	1982	10	60	46	163	2	1	14	107	5	15	0	0	6	12
<i>Bupalus piniaria</i> Bordered White	1981	0	0	0	0	—	0	0	0	0	0	—	0	0	0
	1982	0	0	0	0	0	0	0	0	0	0	0	0	2	0
<i>Panolis flammea</i> Pine Beauty	1981	0	0	0	0	—	0	0	0	0	0	—	0	0	0
	1982	0	0	0	0	0	0	0	0	0	0	0	0	3	0
<i>Cerapteryx graminis</i> Antler Moth	1981	0	0	8	4	—	0	0	1	0	0	—	0	0	0
	1982	0	0	125	6	0	0	1	0	0	2	0	0	0	0
<i>Erannis aurantiaria</i> Scarce Umber	1981	2	0	71	1	—	1	0	0	35	5	—	0	7	0
	1982	1	0	36	1	0	1	0	0	43	1	0	3	15	1
<i>Operophtera fagata</i> Northern Winter Moth	1981	0	0	2	0	—	0	0	0	0	0	—	2	6	0
	1982	0	0	0	0	0	0	0	0	0	0	0	11	11	0
<i>Apamea sordens</i> Rustic Shoulder-knot	1981	2	0	1	0	—	3	5	2	2	0	—	0	0	0
	1982	1	0	2	0	0	8	19	6	1	1	2	1	0	2
<i>Gortyna flavago</i> Frosted Orange	1981	1	2	4	3	—	3	0	0	1	2	—	0	0	1
	1982	1	3	5	25	1	5	1	0	2	0	0	0	3	7
<i>Mamestra brassicae</i> Cabbage Moth	1981	1	1	0	0	—	2	0	2	1	0	—	5	0	0
	1982	1	0	0	0	2	5	2	0	0	0	4	9	1	1
<i>Noctua pronuba</i> Large Yellow Underwing	1981	1	1	47	43	—	3	40	2	203	5	—	2	38	5
	1982	2	10	80	80	1	7	35	7	260	4	12	11	54	15
<i>Diataraxia oleracea</i> Bright-line Brown-eye	1981	7	0	0	0	—	6	9	0	3	2	—	2	0	1
	1982	10	2	1	1	0	2	17	7	4	4	7	0	0	1
<i>Euxoa nigricans</i> Garden Dart	1981	1	0	0	0	—	0	0	0	9	0	—	0	0	0
	1982	2	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Apamea secalis</i> Common Rustic	1981	64	76	8	17	—	31	251	32	49	14	—	20	11	1
	1982	38	67	16	27	22	1	420	18	83	11	22	27	22	145
<i>Melanchra persicariae</i> Dot Moth	1981	0	0	0	0	—	4	1	0	2	2	—	0	0	0
	1982	1	0	0	1	1	3	2	1	3	1	4	1	0	0
<i>Operophtera brumata</i> Winter Moth	1981	1	1	143	12	—	6	3	0	135	10	—	3	11	15
	1982	5	3	106	25	6	7	3	17	116	22	1	6	26	9

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	Cardiff	Sheppey	Stratfield Mortimer	Wisley	Alice Holt	Haslemere	Winchester	Lydd	Denny Lodge	Starcross	Yarmer Wood	Rosewarne	Guernsey	Jersey	Year	Pest Species
	347	370	16	289	46	219	379	366	368	149	266	114	252	146		
	1	2	0	1	0	5	6	4	1	60	7	2	1	2	1981	<i>Gortyna micacea</i>
	2	2	0	2	4	6	2	2	1	7	13	4	0	1	1982	Rosy Rustic
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1981	<i>Bupalus piniaria</i>
	0	0	0	0	3	0	0	0	0	0	0	0	0	0	1982	Bordered White
	0	0	0	1	2	0	0	0	1	0	0	0	0	0	1981	<i>Panolis flammea</i>
	0	0	1	2	2	1	0	0	0	0	0	0	0	0	1982	Pine Beauty
	0	0	0	0	13	0	0	4	0	0	1	0	0	0	1981	<i>Cerapteryx graminis</i>
	0	0	0	0	20	2	0	5	1	0	0	0	0	0	1982	Antler Moth
	0	0	32	7	16	6	0	0	48	0	241	0	0	0	1981	<i>Erannis aurantiaria</i>
	0	0	32	1	12	4	0	0	17	—	33	0	0	1	1982	Scarce Umber
	0	0	0	5	2	2	0	0	18	0	7	0	0	0	1981	<i>Operophtera fagata</i>
	0	0	0	1	3	1	1	0	2	—	10	0	0	0	1982	Northern Winter Moth
	7	0	0	3	1	0	5	0	0	0	0	0	0	0	1981	<i>Apamea sordens</i>
	5	0	0	2	1	0	5	0	0	0	0	0	0	0	1982	Rustic Shoulder-knot
	0	0	1	0	0	0	0	0	0	0	8	0	0	1	1981	<i>Gortyna flavago</i>
	1	0	0	2	0	0	0	0	3	1	11	2	0	1	1982	Frosted Orange
	0	10	1	12	0	1	4	0	1	0	0	14	4	7	1981	<i>Mamestra brassicae</i>
	0	4	1	5	0	1	12	0	5	0	3	6	4	10	1982	Cabbage Moth
	20	7	21	5	7	12	28	3	3	0	26	4	2	1	1981	<i>Noctua pronuba</i>
	26	6	9	8	33	23	64	0	10	5	50	10	3	1	1982	Large Yellow Underwing
	6	12	1	2	0	3	9	0	0	0	0	15	11	4	1981	<i>Diataraxia oleracea</i>
	8	17	0	2	0	4	14	17	1	0	7	17	14	4	1982	Bright-line Brown-eye
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1981	<i>Euxoa nigricans</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1982	Garden Dart
	68	40	23	53	14	16	122	10	5	12	25	13	23	10	1981	<i>Apamea secalis</i>
	78	35	27	21	18	26	126	60	3	7	102	21	20	4	1982	Common Rustic
	0	4	0	3	0	1	0	0	0	0	0	0	0	0	1981	<i>Melanchnra persicariae</i>
	0	9	0	2	0	0	1	2	0	0	0	3	0	1	1982	Dot Moth
	1	1	200	4	15	16	0	0	67	5	137	1	4	1	1981	<i>Operophtera brumata</i>
	1	0	271	16	28	7	2	0	13	—	137	0	4	0	1982	Winter Moth

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Pest Species	Year	Reay	Latheron	Stronchrubic	Inverpolly	Morvich	Cromarty	Newton, Elgin	Beinn Eighe	Fort Augustus	Rannoch	Rowardennan	East Craigs	St Abb's	Glentress
		415	430	418	352	421	398	58	350	49	29	97	261	375	339
<i>Abraxas grossulariata</i> Magpie Moth	1981	0	—	39	27	—	0	1	106	0	0	0	0	—	0
	1982	0	0	3	6	0	0	0	8	0	0	0	0	8	0
<i>Agrotis segetum</i> Turnip Moth	1981	0	—	0	0	—	0	0	0	0	0	0	—	0	0
	1982	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Erannis defoliaria</i> Mottled Umber	1981	1	—	0	1	—	1	1	22	4	3	64	1	—	4
	1982	0	—	0	7	9	9	2	15	5	1	19	0	85	8
<i>Phlogophora meticulosa</i> Angle Shades	1981	0	—	0	0	—	0	0	0	0	0	1	0	—	0
	1982	0	1	0	1	1	0	0	0	2	0	0	0	2	0
<i>Alsophila aescularia</i> March Moth	1981	0	—	0	0	—	3	7	0	2	0	54	0	—	1
	1982	0	0	0	0	1	11	8	0	1	0	22	0	43	2
<i>Hepialus humuli</i> Ghost Swift	1981	0	—	1	0	—	0	1	0	0	0	0	3	—	1
	1982	0	0	0	0	0	1	0	1	0	1	0	0	1	0
<i>Hepialus lupulina</i> Common Swift	1981	0	—	0	0	—	0	1	0	0	10	0	0	—	0
	1982	0	0	0	0	0	0	0	0	0	13	9	2	0	1
<i>Agrotis ipsilon</i> Dark Sword Grass	1981	0	—	0	0	—	0	0	0	0	0	0	0	—	0
	1982	0	0	0	0	2	0	0	0	0	0	0	0	0	0
<i>Euproctis chryssorrhoea</i> Brown-tail	1981	0	—	0	0	—	0	0	0	0	0	0	0	—	0
	1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrotis exclamationis</i> Heart and Dart	1981	0	—	0	0	—	0	1	3	1	0	0	13	—	2
	1982	1	0	0	0	0	0	4	0	0	0	0	50	251	3
<i>Plusia gamma</i> Silver Y	1981	0	—	0	0	—	0	1	0	0	0	0	0	—	0
	1982	1	8	1	3	1	13	2	0	0	4	2	0	33	5
<i>Laphygma exigua</i> Small Mottled Willow	1981	0	—	0	0	—	0	0	0	0	0	0	0	—	0
	1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nycterosea obstipata</i> The Gem	1981	0	—	0	0	—	0	0	0	0	0	0	0	—	0
	1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nomophila noctuella</i> Rush Veneer Pearl	1981	0	—	0	0	—	0	0	0	0	0	0	0	—	0
	1982	0	0	0	0	0	0	0	0	2	0	0	0	0	0
<i>Plutella maculipennis</i> Diamond-back Moth	1981	14	—	0	6	—	7	49	0	0	0	0	8	—	1
	1982	94	35	12	0	0	3	17	0	4	0	0	12	0	0
<i>Udea ferrugalis</i> Rusty Dot Pearl	1981	0	—	0	0	—	0	0	0	0	0	0	0	—	0
	1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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	Newton by the Sea	Culzean Castle	Auchincruive	Waterside Mains	Kielder	Stocksfield	Chester le Street	Hamsterley	Forest in Teesdale	Windermere	Wykeham	Arnside	Baldersby	Castletown, I.O.M.	Year	Pest Species
	426	264	293	338	296	362	39	425	416	323	187	403	315	306		
1	9	0	0	0	0	—	11	3	0	0	1	—	10	22	1981	<i>Abraxas grossulariata</i>
1	0	0	0	0	0	0	3	0	0	0	6	12	13	10	1982	Magpie Moth
0	0	0	0	0	0	—	0	0	0	0	0	—	0	0	1981	<i>Agrotis segetum</i>
0	0	0	0	0	0	0	1	0	0	0	1	0	0	3	1982	Turnip Moth
0	16	0	63	11	—	—	8	0	0	1	56	—	4	3	1981	<i>Erannis defoliaria</i>
1	12	0	145	12	12	12	2	51	2	3	17	16	5	6	1982	Mottled Umber
1	0	0	3	0	—	—	1	0	0	24	0	—	3	8	1981	<i>Phlogophora meticulosa</i>
0	0	0	1	1	2	2	1	0	0	13	1	4	18	7	1982	Angle Shades
3	3	0	44	0	—	—	3	7	0	2	16	—	9	0	1981	<i>Alsophila aescularia</i>
1	6	0	37	0	3	3	4	8	0	1	9	28	9	0	1982	March Moth
0	0	0	0	0	—	—	0	1	0	0	0	—	0	0	1981	<i>Hepialus humuli</i>
0	0	0	0	0	1	1	1	0	0	0	2	0	1	0	1982	Ghost Swift
1	0	0	0	6	—	—	0	2	0	0	0	—	3	0	1981	<i>Hepialus lupulina</i>
16	0	1	0	1	0	0	8	0	0	0	0	1	9	0	1982	Common Swift
0	1	0	0	0	—	—	0	0	0	0	0	—	0	2	1981	<i>Agrotis ipsilon</i>
0	1	0	0	0	0	0	0	0	0	1	0	0	1	4	1982	Dark Sword Grass
0	0	0	0	0	—	—	0	0	0	0	0	—	0	0	1981	<i>Euproctis chrysorrhoea</i>
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1982	Brown-tail
3	3	2	0	1	—	—	1	1	0	21	3	—	4	40	1981	<i>Agrotis exclamationis</i>
7	5	6	3	2	22	22	7	5	0	66	0	8	31	44	1982	Heart and Dart
3	1	0	2	0	—	—	2	2	0	0	1	—	22	3	1981	<i>Plusia gamma</i>
45	7	1	6	3	11	11	62	2	2	5	3	19	59	45	1982	Silver Y
0	0	0	0	0	—	—	0	0	0	0	0	—	0	0	1981	<i>Laphygma exigua</i>
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1982	Small Mottled Willow
0	0	0	0	0	—	—	0	0	0	0	0	—	0	0	1981	<i>Nycterosea obstipata</i>
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1982	The Gem
0	0	—	—	0	—	—	0	0	0	0	0	—	0	0	1981	<i>Nomophila noctuella</i>
0	1	0	0	1	—	—	0	0	0	0	0	0	0	0	1982	Rush Veneer Pearl
14	0	—	—	0	—	—	0	3	0	0	27	—	64	0	1981	<i>Plutella maculipennis</i>
0	11	1087	3	1	—	—	19	0	0	0	36	0	167	0	1982	Diamond-back Moth
0	0	—	—	0	—	—	0	0	0	0	0	—	0	0	1981	<i>Udea ferrugalis</i>
0	0	0	2	2	—	—	0	0	0	0	0	0	0	0	1982	Rusty Dot Pearl

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Pest Species	Year	Harrogate 410	Spurn Head 131	East Didsbury 269	Beaumaris 438	Bangor 35	Jodrell Bank 337	Gleadthorpe 257	Sherwood Forest 439	Matlock 279	Gibraltar Point 223	Empingham 280	Wells next the Sea 274	Shardlow 378	Sutton Bonington 168
<i>Abraxas grossulariata</i> Magpie Moth	1981	3	2	0	—	0	0	4	—	15	0	33	5	2	3
	1982	4	2	0	116	0	1	0	0	31	0	9	9	2	1
<i>Agrotis segetum</i> Turnip Moth	1981	0	0	0	—	0	0	2	—	0	0	5	1	0	1
	1982	0	2	0	0	0	0	1	0	0	0	0	0	1	5
<i>Erannis defoliaria</i> Mottled Umber	1981	6	0	0	—	0	55	4	—	0	1	3	0	0	1
	1982	24	0	1	2	0	75	3	35	0	0	0	0	0	4
<i>Phlogophora meticulosa</i> Angle Shades	1981	1	2	1	—	1	3	2	—	1	5	8	1	0	4
	1982	2	12	1	6	0	0	6	3	1	14	4	1	4	3
<i>Alsophila aescularia</i> March Moth	1981	23	0	0	—	1	32	4	—	1	0	4	1	7	7
	1982	11	0	4	17	0	33	3	—	0	0	5	0	1	6
<i>Hepialus humuli</i> Ghost Swift	1981	0	0	0	—	0	0	0	—	0	0	1	1	0	0
	1982	0	0	1	3	0	0	0	0	0	0	0	1	0	1
<i>Hepialus lupulina</i> Common Swift	1981	33	41	4	—	0	4	10	—	1	0	42	3	2	49
	1982	97	89	10	11	0	3	31	0	6	22	101	17	5	106
<i>Agrotis ipsilon</i> Dark Sword Grass	1981	0	0	0	—	0	0	0	—	0	0	0	0	1	0
	1982	0	2	0	1	1	0	0	0	0	0	0	0	0	0
<i>Euproctis chryorrhoea</i> Brown-tail	1981	0	0	0	—	0	0	0	—	0	0	0	0	0	0
	1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrotis exclamationis</i> Heart and Dart	1981	11	22	9	—	2	7	17	—	2	38	44	15	38	48
	1982	42	89	26	31	1	14	30	4	11	43	61	3	155	352
<i>Plusia gamma</i> Silver Y	1981	1	15	0	—	0	2	1	—	2	2	9	3	4	0
	1982	6	50	3	52	1	17	2	9	30	81	69	6	29	15
<i>Laphygma exigua</i> Small Mottled Willow	1981	0	0	0	—	0	0	0	—	0	0	0	0	0	0
	1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nycterosea obstipata</i> The Gem	1981	0	0	0	—	0	0	0	—	0	0	0	0	0	0
	1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nomophila noctuella</i> Rush Veneer Pearl	1981	0	0	0	—	0	0	0	—	0	0	0	0	0	0
	1982	—	0	0	5	0	0	0	0	0	0	0	0	0	0
<i>Plutella maculipennis</i> Diamond-back Moth	1981	0	91	0	—	0	0	14	0	12	0	8	0	154	3
	1982	—	450	0	489	18	0	175	20	55	0	104	0	264	96
<i>Udea ferrugalis</i> Rusty Dot Pearl	1981	0	0	0	—	0	0	0	—	0	0	0	0	2	0
	1982	—	0	0	4	0	0	0	0	0	0	0	0	0	0

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	Terrington	Preston Montford	Compton Park	Wolverhampton	Santon Downham	Aberystwyth	Monks Wood	Monks Wood (Ewingswode)	Broom's Barn	Tregaron	Llysdinam	Waresley	Luddington	Aberporth	Year	Pest Species
	381	382	424	267	259	340	94	277	88	331	111	360	414	440		
	1	6	1	0	0	10	23	137	1	32	0	37	5	—	1981	<i>Abraxas grossulariata</i>
	0	8	0	0	0	10	5	76	0	90	2	22	3	46	1982	Magpie Moth
	0	0	0	0	0	0	0	0	3	1	0	3	4	—	1981	<i>Agrotis segetum</i>
	1	0	0	0	0	0	0	3	7	3	0	1	6	2	1982	Turnip Moth
	0	7	0	0	0	3	0	290	0	231	55	2	0	—	1981	<i>Erannis defoliaria</i>
	0	13	0	0	1	6	2	209	2	169	83	5	2	0	1982	Mottled Umber
	2	3	0	1	2	1	1	21	0	11	6	2	0	—	1981	<i>Phlogophora meticulosa</i>
	17	0	0	0	14	2	1	42	6	10	1	7	4	4	1982	Angle Shades
	1	28	0	0	12	9	3	—	4	109	25	28	2	—	1981	<i>Alsophila aescularia</i>
	1	22	0	0	4	5	3	30	4	129	31	22	2	0	1982	March Moth
	1	4	0	0	0	0	0	0	0	0	2	0	0	—	1981	<i>Hepialus humuli</i>
	1	5	1	0	1	1	0	0	0	0	4	0	0	9	1982	Ghost Swift
	14	0	2	0	0	0	7	17	0	0	0	4	0	—	1981	<i>Hepialus lupulina</i>
	20	6	2	0	0	1	26	120	6	1	0	15	10	8	1982	Common Swift
	0	1	0	0	0	0	0	0	0	2	0	0	1	—	1981	<i>Agrotis ipsilon</i>
	0	0	0	0	0	0	0	0	0	3	0	0	0	1	1982	Dark Sword Grass
	0	0	0	0	0	0	0	0	0	0	0	0	0	—	1981	<i>Euproctis chryorrhoea</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1982	Brown-tail
	10	36	47	1	2	8	22	1	27	24	0	46	51	—	1981	<i>Agrotis exclamationis</i>
	5	109	167	11	6	30	67	22	20	36	160	32	265	12	1982	Heart and Dart
	1	2	0	0	3	0	0	5	2	5	2	8	1	—	1981	<i>Plusia gamma</i>
	4	10	24	5	22	68	30	26	17	60	21	40	3	80	1982	Silver Y
	0	0	0	0	0	0	0	0	0	0	0	0	0	—	1981	<i>Laphygma exigua</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1982	Small Mottled Willow
	0	0	0	0	0	1	0	0	0	1	0	0	0	—	1981	<i>Nycterosea obstipata</i>
	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1982	The Gem
	0	0	0	0	0	—	0	0	0	—	—	0	0	—	1981	<i>Nomophila noctuella</i>
	0	0	0	0	0	—	1	0	0	—	—	0	0	0	1982	Rush Veneer Pearl
	44	7	0	0	4	—	100	0	2	—	—	17	77	—	1981	<i>Plutella maculipennis</i>
	79	139	0	0	2	—	307	1	13	—	—	8	263	0	1982	Diamond-back Moth
	0	0	0	0	0	—	0	0	0	—	—	0	0	—	1981	<i>Udea ferrugalis</i>
	0	2	0	0	0	—	0	0	1	—	—	0	0	0	1982	Rusty Dot Pearl

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Pest Species	Year	Cockayne Hatley	Hereford	Rhandirmwyn	Trelech	Halstead	Eaton Bray	Rothamsted (Barnfield)	Rothamsted (Allotments)	Rothamsted (Geescroft)	Wickham Bishops	Chalfont St Giles	Chigwell Row	Westonbirt	Hurley
		336	212	346	233	436	412	1	34	22	120	435	305	292	180
<i>Abraxas grossulariata</i>	1981	14	25	6	118	—	155	2	1	47	68	—	0	3	7
Magpie Moth	1982	4	14	9	221	55	92	3	0	51	62	7	4	4	2
<i>Agrotis segetum</i>	1981	5	0	0	0	—	0	2	6	8	0	—	0	2	0
Turnip Moth	1982	6	0	0	1	0	1	4	0	3	3	0	0	1	0
<i>Erannis defoliaria</i>	1981	0	0	838	8	—	1	0	0	20	1	—	0	27	8
Mottled Umber	1982	0	2	393	13	1	4	1	1	76	8	1	9	77	7
<i>Phlogophora meticulosa</i>	1981	1	1	13	14	—	0	1	2	22	2	—	3	8	1
Angle Shades	1982	2	10	14	13	9	0	5	3	20	5	5	3	19	3
<i>Alsophila aescularia</i>	1981	2	22	51	9	—	—	3	2	42	33	—	0	8	8
March Moth	1982	1	8	34	20	3	5	0	1	31	32	0	0	9	11
<i>Hepialus humuli</i>	1981	0	1	0	0	—	0	2	2	1	1	—	1	0	1
Ghost Swift	1982	0	1	0	0	9	1	0	10	0	1	2	1	1	2
<i>Hepialus lupulina</i>	1981	5	0	0	1	—	1	7	11	4	92	—	5	1	11
Common Swift	1982	26	0	0	0	111	29	36	23	14	116	4	6	3	39
<i>Agrotis ipsilon</i>	1981	0	0	1	4	—	0	0	0	0	0	—	0	1	0
Dark Sword Grass	1982	0	0	0	0	0	0	0	0	0	0	2	0	5	0
<i>Euproctis chrysorrhoea</i>	1981	0	0	0	0	—	0	0	0	0	0	—	0	0	0
Brown-tail	1982	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Agrotis exclamationis</i>	1981	10	24	6	1	—	27	21	10	21	7	—	3	2	15
Heart and Dart	1982	43	167	14	38	15	82	91	22	98	55	83	13	51	35
<i>Plusia gamma</i>	1981	1	0	4	3	—	1	4	4	3	4	—	4	11	0
Silver Y	1982	38	9	32	18	11	21	40	13	13	14	50	63	57	9
<i>Laphygma exigua</i>	1981	0	0	0	0	—	0	0	0	0	0	—	0	0	0
Small Mottled Willow	1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nycterosea obstipata</i>	1981	0	0	0	0	—	1	1	0	0	0	—	0	0	0
The Gem	1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nomophila noctuella</i>	1981	0	0	0	0	—	—	0	0	0	0	—	0	1	0
Rush Veneer Pearl	1982	0	0	0	0	0	—	1	0	0	0	—	0	2	0
<i>Plutella maculipennis</i>	1981	111	0	1	0	—	—	219	138	1	8	—	10	0	57
Diamond-back Moth	1982	402	479	0	0	18	—	800	1034	3	2	—	48	2	83
<i>Udea ferrugalis</i>	1981	0	0	0	0	—	—	0	0	0	0	—	0	0	2
Rusty Dot Pearl	1982	0	2	5	0	1	—	0	0	1	0	—	0	0	0

ROTHAMSTED INSECT SURVEY

2(f)
of moths of economic, or other importance for 1981 and 1982

	Cardiff	Sheppey	Stratfield Mortimer	Wisley	Alice Holt	Haslemere	Winchester	Lydd	Denny Lodge	Starcross	Yarner Wood	Rosewarne	Guernsey	Jersey	Year	Pest Species
347	1	6	27	0	0	0	61	0	0	11	2	9	18	5	1981	<i>Abraxas grossulariata</i>
3	1	27	0	0	0	0	34	0	0	2	1	10	20	0	1982	Magpie Moth
0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	1981	<i>Agrotis segetum</i>
0	1	0	0	7	1	0	0	0	1	2	7	2	2	3	1982	Turnip Moth
0	0	39	11	33	7	0	2	67	0	55	0	1	0	0	1981	<i>Erannis defoliaria</i>
0	0	56	35	51	7	0	0	47	—	60	0	0	0	0	1982	Mottled Umber
5	2	4	2	2	4	4	2	2	2	21	0	2	0	0	1981	<i>Phlogophora meticulosa</i>
2	1	1	1	4	7	9	0	3	3	12	5	0	0	2	1982	Angle Shades
0	0	20	8	21	3	8	0	10	4	33	2	0	5	0	1981	<i>Alsophila aescularia</i>
0	0	10	18	19	5	4	0	9	1	46	1	0	15	0	1982	March Moth
0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1981	<i>Hepialus humuli</i>
0	0	0	1	5	0	1	1	0	3	0	0	0	0	0	1982	Ghost Swift
12	2	1	1	2	0	17	12	0	1	0	0	1	0	0	1981	<i>Hepialus lupulina</i>
21	7	18	20	12	2	11	37	0	5	1	1	0	0	0	1982	Common Swift
0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	1981	<i>Agrotis ipsilon</i>
0	0	0	0	1	0	1	0	1	0	7	3	0	1	0	1982	Dark Sword Grass
0	2	0	0	0	0	0	42	0	0	0	0	0	0	0	1981	<i>Euproctis chryssorrhoea</i>
0	1	0	0	0	0	0	79	0	0	0	0	2	0	0	1982	Brown-tail
14	27	17	7	21	11	6	31	2	9	9	27	19	17	0	1981	<i>Agrotis exclamationis</i>
38	42	48	51	78	102	33	55	13	51	152	173	21	36	0	1982	Heart and Dart
5	10	2	1	6	10	10	0	1	7	19	9	0	15	0	1981	<i>Plusia gamma</i>
55	68	23	23	35	27	46	38	2	27	162	85	13	22	0	1982	Silver Y
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1981	<i>Laphygma exigua</i>
0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	1982	Small Mottled Willow
0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1981	<i>Nycterosea obstipata</i>
0	0	0	1	0	0	0	0	0	2	5	3	0	1	0	1982	The Gem
0	0	0	0	0	0	0	0	—	0	—	—	0	2	0	1981	<i>Nomophila noctuella</i>
0	0	0	0	2	0	0	0	—	4	—	45	5	31	0	1982	Rush Veneer Pearl
33	178	0	105	13	3	0	0	—	18	—	—	44	34	0	1981	<i>Plutella maculipennis</i>
149	317	4	945	169	77	0	0	—	420	—	2453	551	359	0	1982	Diamond-back Moth
0	0	0	0	0	0	0	0	—	2	—	—	0	4	0	1981	<i>Udea ferrugalis</i>
0	0	0	1	7	2	0	0	—	16	—	95	11	36	0	1982	Rusty Dot Pearl