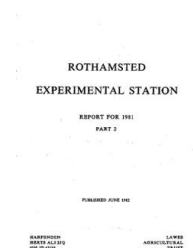


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Rothamsted Experimental Station Report for 1981 Part 2



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Rothamsted Insect Survey Thirteenth Annual Summary

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

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Rothamsted Insect Survey

Thirteenth Annual Summary

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

Suction traps 1981

Daily samples were collected from 6 April to 4 November 1981 and the *Aphid Bulletins* were issued weekly from 6 April (*Bulletin* No. 1) to 1 November (*Bulletin* No. 30). The 33 aphid taxa listed in Table 1 (a–h) are those in the *Aphid Bulletin*.

From 6 April 1981 Dr L. A. D. Turl and colleagues at the Department of Agriculture and Fisheries for Scotland (DAFS) East Craigs took over responsibility for the traps at Elgin, Dundee, East Craigs, Pathhead, Ayr and Stirling.

In 1981 records for the trap at Pathhead in Scotland appeared on the *Bulletin* and in Table 1 (a–h). The trap at Rainham was only operating from 30 March until the end of July; it only appears on the *Bulletins* until the end of June and in Tables 1 (a–d). Traps in Holland, operated by Dr A. van Harten of Wageningen, continued during 1981, but records do not appear on the *Bulletins* nor in Table 1. A trap was also operating at Stirling in Scotland. Suction traps sampling at 5 ft (1.5 m) were operating at East Craigs, Ingraston, Broom's Barn (until 1 June only), Hereford and Rothamsted Tower; records for these do not appear in *Bulletins* nor in Table 1.

Catches from 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 aphids from Broom's Barn. The catches from the Scottish traps were identified by Dr L. A. D. Turl, Dr D. A. Cooper, Mr D. B. Cole and Mr R. Burns of DAFS, East Craigs. Dr H. L. G. Stroyan of the Ministry of Agriculture, Fisheries and Food, Plant Pathology Laboratory confirmed difficult identifications.

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).

Sample volumes were halved at various sites as follows: Rothamsted Tower from 13 July–5 October, Preston, Kirton, Shardlow, Hereford, Writtle, Long Ashton and Silwood from 14 July to 12 October, Wye 15 July–12 October, Starcross from 6 August to 5 October, Broom's Barn from 17 August to 2 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 samples.

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

Light traps

Table 2 (a–f) gives the annual catches during 1979 and 1980 of the same pest, or migratory Lepidoptera as in previous years.

Eighty-two sites completed the 364-day sample for 1980.

The sites in Table 2 are arranged in sequence from north to south and the species are in the same order as in previous years. Zero catches are recorded as 0; dashes indicate missing records.

Once again voluntary workers operated most of the traps and identified many of the insects; we are most grateful for their help.

ROTHAMSTED REPORT FOR 1981, PART 2

TAB

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

Sites	Elgin	Dundee	Edinburgh	Pathhead	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Kirton	Shardlow	Aberystwyth
Species												
<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					1					
<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>							1					
<i>Macrosiphum euphorbiae</i>		1										
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>												
<i>Metopolophium festucae</i> s.l.							1	2			1	
<i>Myzus ascalonicus</i>		1		1			2			1	4	
<i>Myzus certus</i>												
<i>Myzus ornatus</i>							8					
<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>		2	1				6		1			1
<i>Sitobion avenae</i>												
<i>Sitobion fragariae</i>			1									
First aphid caught	April 17	March 19-25	April 20	April 17			April 7	April 11	April 8	Jan 22-28	April 8	Apr 9
	Silwood 8-14 January, 1 <i>Sitobion fragariae</i>											
	Hereford 15-21 January, 1 <i>Sitobion fragariae</i>											
	Littlehampton 21-27 January, 1 <i>Myzus ornatus</i>											
	Kirton 22-28 January, 1 <i>Sitobion fragariae</i>											
	Rosewarne 5-11 March, 2 <i>Rhopalosiphum padi</i>											
	Long Ashton 19-25 March, 1 <i>Myzus ornatus</i>											
	Dundee 19-25 March, 1 <i>Myzus ornatus</i>											

ROTHAMSTED INSECT SURVEY

IBAT

aphids of economic, or other interest reported in the Weekly Bulletin 1981
March to 22 April 1981

	Broom's Barn	Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Wye, Kent	Littlehampton	Starcross	Rosewarne	Sites	Species
		1			1					1	4		<i>Acrythosiphon 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>
					6	2			1	1			<i>Hyperomyzus lactucae</i>
													<i>Macrosiphum euphorbiae</i>
													<i>Megoura viciae</i>
	1	1	2	1	3	2	1			2			<i>Metopolophium dirhodum</i>
		4		9	14	5	2	1	5	1			<i>Metopolophium festucae</i> s.l.
				2	13	4	3		1	4	5		<i>Myzus ascalonicus</i>
													<i>Myzus certus</i>
		1	2	1		7	1	1		1	1		<i>Myzus ornatus</i>
							1				2		<i>Myzus persicae</i> grp.
													<i>Nasonovia ribisnigri</i>
				1									<i>Pemphigus</i> spp.
													<i>Pentatrichopus fragaefolii</i>
													<i>Phorodon humuli</i>
													<i>Phyllaphis fagi</i>
													<i>Rhopalosiphum insertum</i>
									1				<i>Rhopalosiphum maidis</i>
		1		1	2	2	2		1	1	1		<i>Rhopalosiphum padi</i>
				1						1			<i>Sitobion avenae</i>
					1						1		<i>Sitobion fragariae</i>
April 16	Jan 15-21	March 26-1 April	March 26-1 April	April 7	March 19-25	Jan 8-14	March 26-1 April	Jan 21-27	April 8	March 5-11			First aphid caught

ROTHAMSTED REPORT FOR 1981, PART 2

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

Sites												
Species	Elgin	Dundee	Edinburgh	Pathhead	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Kirton	Shardlow	Aberystwyth
<i>Acyrtosiphon pisum</i>	1		1				1		1		2	
<i>Amphorophora rubi</i>									1			
<i>Aphis fabae</i> grp.												
<i>Aphis</i> spp.									1	1	6	
<i>Aulacorthum solani</i>	1	2	1		1	3	9		8	11	10	
<i>Brachycaudus helichrysi</i>	2		5	1		2	6	1	7	8	8	8
<i>Brevicoryne brassicae</i>							2					
<i>Cavariella aegopodii</i>				2			4					
<i>Cinara</i> spp.									1			
<i>Drepanosiphum platanoidis</i>		8	5		1	4	2	11	139	6	18	1
<i>Dysaphis plantaginea</i>												
<i>Elatobium abietinum</i>	9	2	2	3	4	4	69	18	11	5	11	63
<i>Eriosoma ulmi</i>												
<i>Hyalopterus pruni</i>												
<i>Hyperomyzus lactucae</i>							1		1		1	
<i>Macrosiphum euphorbiae</i>		1	8				24		2	6	7	4
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>			3	1	2	1	6	1	6		12	
<i>Metopolophium festucae s.l.</i>	1	4	20	44	11	32	51	37	106	21	295	28
<i>Myzus ascalonicus</i>	11	4	8	3	1	11	18	7	25	20	43	3
<i>Myzus certus</i>				1						3		
<i>Myzus ornatus</i>			20		1		30		2		3	
<i>Myzus persicae</i> grp.		1					2		2	4	5	
<i>Nasonovia ribisnigri</i>												
<i>Pemphigus</i> spp.												
<i>Pentatrachopus fragaefolii</i>												
<i>Phorodon humuli</i>												
<i>Phyllaphis fagi</i>												
<i>Rhopalosiphum insertum</i>							6	1	73	8	22	1
<i>Rhopalosiphum maidis</i>							1					4
<i>Rhopalosiphum padi</i>		3	1		2		24	1	3	10	2	6
<i>Sitobion avenae</i>	1		2			1	7	1	6	30	15	15
<i>Sitobion fragariae</i>							2		3	1	1	
First aphid caught						May 8	May 7					

ROTHAMSTED INSECT SURVEY

(b)
of aphids of economic, or other, interest reported in the Weekly Bulletin 1981
23 April to 20 May 1981

	Broom's Barn	Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Wye, Kent	Littlehampton	Starcross	Rosewarne	Sites	Species
	5			2	10		2	1	1		1		<i>Acyrtosiphon pisum</i>
			3	3	2								<i>Amphorophora rubi</i>
		1	5	4	8	1	4	1	3				<i>Aphis fabae</i> grp.
	1	7		3	6		3	3	3				<i>Aphis</i> spp.
	7	8	63	3	10	8	2	5	5	5	2		<i>Aulacorthum solani</i>
				84	107	15	50	5	31	10			<i>Brachycaudus helichrysi</i>
	4	1	17	1	1	2				1			<i>Brevicoryne brassicae</i>
	1			27	50	1	25	7	16	1	1		<i>Cavariella aegopodii</i>
	1	7	5	1			41	3	2	1			<i>Cinara</i> spp.
				15	2								<i>Drepanosiphum platanoidis</i>
	18	39	42	26	2	12	80	116	20	6			<i>Dysaphis plantaginea</i>
													<i>Elatobium abietinum</i>
													<i>Eriosoma ulmi</i>
	1	1	1	1	1		1		1	1	2		<i>Hyalopterus pruni</i>
		8	1	5	48	11	10	1	6	4	2		<i>Hyperomyzus lactucae</i>
													<i>Macrosiphum euphorbiae</i>
	5	5	2	4	14	11	4		2	2			<i>Megoura viciae</i>
	40	85	23	71	88	24	110	48	24		17		<i>Metopolophium dirhodum</i>
	20	18	24	48	74	16	53	25	30	4	4		<i>Metopolophium festucae</i> s.l.
					10	1		1					<i>Myzus ascalonicus</i>
		1	3	4	5	8	6		5	1			<i>Myzus certus</i>
	3	4	4	17	22	6	4	2	5	1			<i>Myzus ornatus</i>
				1	3	1		1					<i>Myzus persicae</i> grp.
					1								<i>Nasonovia ribisnigri</i>
					2				1				<i>Pemphigus</i> spp.
		1	1	5	4		1		1				<i>Pentatrichopus fragaefolii</i>
													<i>Phorodon humuli</i>
		5	15	13	24	7	14	10	29	5	2		<i>Phyllaphis fagi</i>
		1	1		1	3		2	1	4			<i>Rhopalosiphum insertum</i>
	6	1	3	7	40	7	13	1	10	2	8		<i>Rhopalosiphum maidis</i>
	21	44	6	17	26	24	49	13	21	6	1		<i>Rhopalosiphum padi</i>
		2	2	6	6		3	1	4		2		<i>Sitobion avenae</i>
													<i>Sitobion fragariae</i>
													First aphid caught

ROTHAMSTED REPORT FOR 1981, PART 2

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

Sites	Elgin	Dundee	Edinburgh	Pathhead	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Kirton	Shardlow	Aberystwyth
Species												
<i>Acyrtosiphon pisum</i>	14	6	1				1		1	1	3	2
<i>Amphorophora rubi</i>							1				3	2
<i>Aphis fabae</i> grp.	1		2				1		3	4	3	2
<i>Aphis</i> spp.	5								4	8	11	1
<i>Aulacorthum solani</i>	4	2	8	3	2	8	12	1	14	13	11	4
<i>Brachycaudus helichrysi</i>	28	15	48	15	54	14	45	74	479	185	464	151
<i>Brevicoryne brassicae</i>											9	
<i>Cavariella aegopodii</i>	10	8	26	8	18	11	18	24	118	180	251	22
<i>Cinara</i> spp.		1	1		1	1			1	6	9	1
<i>Drepanosiphum platanoidis</i>		32	36	20	27	18	6	26	282	10	161	5
<i>Dysaphis plantaginea</i>												1
<i>Elatobium abietinum</i>	90	25	37	36	231	55	200	60	22	30	47	326
<i>Eriosoma ulmi</i>		11							5	2	8	2
<i>Hyalopterus pruni</i>	1	2		1	1	2		1	5	1	5	1
<i>Hyperomyzus lactucae</i>	1	13	3				7	1	12	5	7	9
<i>Macrosiphum euphorbiae</i>	6	20	19	6	4	13	12	1	6	7	21	21
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>	4	6	16		6	3	1	2	17		6	15
<i>Metopolophium festucae s.l.</i>	84	139	148	177	63	256	45	180	193	144	192	35
<i>Myzus ascalonicus</i>	50	11	31	20	4	32	12	26	21	11	33	2
<i>Myzus certus</i>			2	1			1			2	8	1
<i>Myzus ornatus</i>	2	5	35		1	2	22		3	1	6	1
<i>Myzus persicae</i> grp.	2	1	5	2	1		1	4	1	9	68	1
<i>Nasonovia ribisnigri</i>	1		2	2			1		5	5	4	1
<i>Pemphigus</i> spp.												
<i>Pentatrachopus fragaefolii</i>										1	1	
<i>Phorodon humuli</i>			2					3	8	10	65	12
<i>Phyllaphis fagi</i>	1		2			1			1			1
<i>Rhopalosiphum insertum</i>	1	7	4	9	7	26	35	9	66	31	42	6
<i>Rhopalosiphum maidis</i>							2		3	1	1	5
<i>Rhopalosiphum padi</i>	2	3	30	11	45	7	132	5	22	37	30	51
<i>Sitobion avenae</i>	3	15	9	2	3	12	31	11	28	182	69	62
<i>Sitobion fragariae</i>	2	4	6	2	1	2	12	2	21	4	18	3

ROTHAMSTED INSECT SURVEY

1(c)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1981
21 May to 17 June 1981

											Sites
Broom's Barn	Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Wye, Kent	Littlehampton	Starcross	Rosewarne	Species
1	2		9	13	1	11	12		5	1	<i>Acyrtosiphon pisum</i>
39	2		4	4	6	10	2	16	1	1	<i>Amphorophora rubi</i>
5	3	5	19	11	5	15	11	4			<i>Aphis fabae</i> grp.
2	9	8	21	43	8	29	7	12	2	4	<i>Aphis</i> spp.
1	7		7	7	11	3	9	7	8	5	<i>Aulacorthum solani</i>
195	513	488	597	302	344	216	397	78	64	12	<i>Brachycaudus helichrysi</i>
	12	2	31	13	1	5	1	1	7	1	<i>Brevicoryne brassicae</i>
395	139	406	673	364	101	231	205	59	15	3	<i>Cavariella aegopodii</i>
2		8	16	3	3	6	2				<i>Cinara</i> spp.
10	13	54	33	10	18	77	14	36	20	2	<i>Drepanosiphum platanoidis</i>
1		2		1		1					<i>Dysaphis plantaginea</i>
97	80	135	25	3	65	32	193	8	23	10	<i>Elatobium abietinum</i>
2	11	1	2	9	5	9	5				<i>Eriosoma ulmi</i>
3	3	1	30	142	13	3	12	4			<i>Hyalopterus pruni</i>
3	7	4	16	9	6	3	3	11	4		<i>Hyperomyzus lactucae</i>
1	9	4	13	24	17	17	8	5	4	1	<i>Macrosiphum euphorbiae</i>
		1	1		1	5					<i>Megoura viciae</i>
2	8	2	4	19	21	5	3	10	14	3	<i>Metopolophium dirhodum</i>
104	88	37	21	13	27	77	93	11	8	6	<i>Metopolophium festucae</i> s.l.
12	7	15	12	10	4	16	9		2	1	<i>Myzus ascalonicus</i>
	2	3	1	6	3	3	1	2	2		<i>Myzus certus</i>
		2	7	1	6	1		4	1	1	<i>Myzus ornatus</i>
21	11	11	58	17	8	3	12	3	1	2	<i>Myzus persicae</i> grp.
1		5	5	2	1	3		4			<i>Nasonovia ribisnigri</i>
			1	5		1					<i>Pemphigus</i> spp.
			1	1				2			<i>Pentatrachopus fragaefolii</i>
23	137	31	156	115	31	66	182	2	1		<i>Phorodon humuli</i>
1		2	2	1		9					<i>Phyllaphis fagi</i>
	12	25	21	42	11	14	16	17	14	9	<i>Rhopalosiphum insertum</i>
	3	1	3	1	1	1	3	6	4	3	<i>Rhopalosiphum maidis</i>
63	132	27	81	305	63	76	58	56	26	18	<i>Rhopalosiphum padi</i>
129	174	23	51	55	85	111	106	24	18	2	<i>Sitobion avenae</i>
6	9	18	32	23	23	52	6	14	9	17	<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1981, PART 2

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

Species	Elgin	Dundee	Edinburgh	Pathhead	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Kirton	Shardlow	Aberystwyth
<i>Acyrtosiphon pisum</i>	6	15	1	4	1	3		8		52	5	2
<i>Amphorophora rubi</i>	3	3				3		3		2	5	2
<i>Aphis fabae</i> grp.	1		2	2	2	2		9	24	66	66	4
<i>Aphis</i> spp.	9	8	10	13	3	20	15	9	10	92	86	2
<i>Aulacorthum solani</i>	2	2	1		1	3	1	3	9	4	3	1
<i>Brachycaudus helichrysi</i>	77	24	7	31	5	49	9	145	27	199	207	11
<i>Brevicoryne brassicae</i>	1		1	1		1	1	3		1	462	
<i>Cavariella aegopodii</i>	8	11	13	19	2	114	41	93	59	240	327	1
<i>Cinara</i> spp.		1	1		1	1	2	5	1	3	14	
<i>Drepanosiphum platanoidis</i>	7	47	36	13	12	91	3	53	217	11	79	5
<i>Dysaphis plantaginea</i>												
<i>Elatobium abietinum</i>	1	1	14	1	8	11	2	2	6			3
<i>Eriosoma ulmi</i>	6	80	4	7	5	7	1	14	12	11	4	4
<i>Hyalopterus pruni</i>		2	5	1	2	14	5	33	109	248	317	3
<i>Hyperomyzus lactucae</i>		14	2	2		2	4			13	4	1
<i>Macrosiphum euphorbiae</i>	10	131	18	20	6	11	2	4	17	16	11	5
<i>Megoura viciae</i>	5			6	9	6	1	2				
<i>Metopolophium dirhodum</i>	3	217	24	20	12	7	3	4	2	3	12	13
<i>Metopolophium festucae</i> s.l.	9	30	4	33	3	5		1		2	1	1
<i>Myzus ascalonicus</i>	3		2	7	1	5		1	2	2		
<i>Myzus certus</i>		1	1			3			3	6	3	1
<i>Myzus ornatus</i>	4	1	1	2		2	3					
<i>Myzus persicae</i> grp.		6	2	9		14	3	24	2	26	253	1
<i>Nasonovia ribisnigri</i>								1		5	3	2
<i>Pemphigus</i> spp.	1	3				2	1	1	6	8	7	
<i>Pentatrichopus fragaefolii</i>						4					1	
<i>Phorodon humuli</i>					2	3	2	16	1	89	189	2
<i>Phyllaphis fagi</i>	2	10	11	2	4	3	1	6	5	9	6	
<i>Rhopalosiphum insertum</i>		5	4	3	20	48	25	31	260	272	250	
<i>Rhopalosiphum maidis</i>	3	24	7	10		20	1	17	3	71	13	3
<i>Rhopalosiphum padi</i>	5	381	13	47	37	67	110	40	59	926	108	35
<i>Sitobion avenae</i>	5	35	5	15	4	26	15	30	26	500	332	23
<i>Sitobion fragariae</i>	1	11	3	3	2	4	4	6	2	20	20	1

ROTHAMSTED INSECT SURVEY

1(d)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1981
18 June to 15 July 1981

	Broom's Barn	Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Wye, Kent	Littlehampton	Starcross	Rosewarne	Sites	Species
44	1	11	73	14	4	12	20	13	5	2		<i>Acyrtosiphon pisum</i>	
6	16	6			9	12	7	9	8	2		<i>Amphorophora rubi</i>	
114	149	392	217	132	93	85	119	48	40	2		<i>Aphis fabae</i> grp.	
37	34	116	86	258	61	89	77	28	16	4		<i>Aphis</i> spp.	
3	3		4	3	9	1	2	1	12	8		<i>Aulacorthum solani</i>	
82	245	75	42	50	27	26	15	15	15			<i>Brachycaudus helichrysi</i>	
176	53	22	233	137	2	77	6	5	3			<i>Brevicoryne brassicae</i>	
135	82	256	107	130	43	149	28	62	16	2		<i>Cavariella aegopodii</i>	
4	3	6	6	7	2	1	7	6	6	3		<i>Cinara</i> spp.	
8	21	21	25	4	2	26	3	11		9		<i>Drepanosiphum platanoidis</i>	
4			5	5				4				<i>Dysaphis plantaginea</i>	
	5											<i>Elatobium abietinum</i>	
4	8	1	2	3	1	2	1	2	2	1		<i>Eriosoma ulmi</i>	
227	59	475	1056	4475	131	377	667	179	53	1		<i>Hyalopterus pruni</i>	
11	1	5	4	26	4	7	8	5	6			<i>Hyperomyzus lactucae</i>	
4	5	1	10	17	8	9		3	13	2		<i>Macrosiphum euphorbiae</i>	
5		9	10	15	2	33	6	5		2		<i>Megoura viciae</i>	
5	27	6	14	51	47	10	6	25	95	2		<i>Metopolophium dirhodum</i>	
4	1	3		1	1	1	1		3			<i>Metopolophium festucae s.l.</i>	
1					2			1				<i>Myzus ascalonicus</i>	
3	2	1	2	3	4	6			2			<i>Myzus certus</i>	
		1		2	2	5		2	3			<i>Myzus ornatus</i>	
262	9	76	83	21	6	9	24	5				<i>Myzus persicae</i> grp.	
		1	4	3	2	2		1	1			<i>Nasonovia ribisnigri</i>	
5	10	2	27	64	4	6	6	5	3	2		<i>Pemphigus</i> spp.	
		1										<i>Pentatrichopus fragaefolii</i>	
102	301	79	143	91	125	132	74	21	14			<i>Phorodon humuli</i>	
2	1	9	3	3	3	6	4					<i>Phyllaphis fagi</i>	
58	27	370	338	420	53	269	77	132	48	18		<i>Rhopalosiphum insertum</i>	
52	13	20	34	24	3	7	46	11	16	2		<i>Rhopalosiphum maidis</i>	
242	327	64	92	298	82	139	135	324	142	52		<i>Rhopalosiphum padi</i>	
379	355	154	379	380	262	413	412	287	252	7		<i>Sitobion avenae</i>	
7	15	17	27	30	4	11	11	8	15	7		<i>Sitobion fragariae</i>	

ROTHAMSTED REPORT FOR 1981, PART 2

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

Species	Elgin	Dundee	Edinburgh	Pathhead	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Kirton	Shardlow	Aberystwyth
<i>Acyrtosiphon pisum</i>	1	101	1	1	6	2	1	13	2	92	52	
<i>Amphorophora rubi</i>		4				1			2		2	
<i>Aphis fabae</i> grp.	1	26	11	15	49	23	134	167	82	1090	494	75
<i>Aphis</i> spp.		13	13	6	5	15	17	48	16	372	250	5
<i>Aulacorthum solani</i>	2	8	1	2	4	2			4	2		1
<i>Brachycaudus helichrysi</i>	14	25	5	10	6	6	3	14	6	26	16	8
<i>Brevicoryne brassicae</i>	1	31	12	2			1			8	150	1
<i>Cavariella aegopodii</i>	5	8	12	10	5	10	2	25	12	28	22	1
<i>Cinara</i> spp.	3	3	1	3	1	2	1	1		8	12	
<i>Drepanosiphum platanoidis</i>		22	10	5	1	40	4	20	198	12	34	5
<i>Dysaphis plantaginea</i>												
<i>Elatobium abietinum</i>					1					2		
<i>Eriosoma ulmi</i>	3	1	1				1	1			2	
<i>Hyalopterus pruni</i>	7	10	17	5	11	4	14	48	108	244	748	8
<i>Hyperomyzus lactucae</i>		5	2	1		1	2	6		8	14	2
<i>Macrosiphum euphorbiae</i>	10	303	16	13	10	4	4	1		12		6
<i>Megoura viciae</i>	1	1	1			2	4					1
<i>Metopolophium dirhodum</i>	13	322	63	36	35	2	9	6	18	86	144	29
<i>Metopolophium festucae s.l.</i>	1	16		2	1		1	2			2	1
<i>Myzus ascalonicus</i>												
<i>Myzus certus</i>		3	1	1		1		2	2	2	8	
<i>Myzus ornatus</i>	2	2	1	1		1	2					
<i>Myzus persicae</i> grp.	9	141	32	46	12	9		12	2	32	6	
<i>Nasonovia ribisnigri</i>	1	1								2		4
<i>Pemphigus</i> spp.	7	5	4	1	4	3	1		2	2	8	3
<i>Pentatrichopus fragaefolii</i>	1											
<i>Phorodon humuli</i>							1	2	2	8	16	
<i>Phyllaphis fagi</i>		1			1							
<i>Rhopalosiphum insertum</i>	26	266	207	184	527	440	458	221	2258	1220	1952	62
<i>Rhopalosiphum maidis</i>		4		1		2	7	2	6	10	4	12
<i>Rhopalosiphum padi</i>	151	2892	545	573	536	432	955	262	1020	2140	2078	376
<i>Sitobion avenae</i>	29	524	57	68	43	46	117	366	86	1872	1046	126
<i>Sitobion fragariae</i>	1	22	19	18	9	11	4	22	12	66	48	2

Elgin trap not operating 3-9 August

ROTHAMSTED INSECT SURVEY

1(e)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1981
16 July to 12 August 1981

											Sites
Broom's Barn	Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Wye, Kent	Littlehampton	Starcross	Rosewarne	Species
56	24	10	74		6	10	18	26	5	3	<i>Acyrtosiphon pisum</i>
416	502	433	560		244	204	198	222	313	31	<i>Amphorophora rubi</i>
43	122	338	224		80	144	102	80	100	20	<i>Aphis fabae</i> grp.
2			2		2		4	1	1		<i>Aphis</i> spp.
6	52	12	16		30	8	4	16	11	1	<i>Aulacorthum solani</i>
128	100	20	98		26	46		10	36	6	<i>Brachycaudus helichrysi</i>
5	16	2	12		10	12	4	2	7	1	<i>Brevicoryne brassicae</i>
7	2	2	2		2	2		2	1		<i>Cavariella aegopodii</i>
11	8	4	4		4	8	14	16	1	9	<i>Cinara</i> spp.
			6			2			1		<i>Drepanosiphum platanoidis</i>
	2						2				<i>Dysaphis plantaginea</i>
											<i>Elatobium abietinum</i>
1153	436	1098	3034	Trap not operating	724	884	2408	1272	277	20	<i>Eriosoma ulmi</i>
5	10	8	14		6	12	10	17	6		<i>Hyalopterus pruni</i>
7	28	8	8		10	2	4	7	16	3	<i>Hyperomyzus lactucae</i>
6	2		14		2	12	12	13	7		<i>Macrosiphum euphorbiae</i>
125	240	30	134		164	34	92	182	217	10	<i>Megoura viciae</i>
1	10	2						1	1	2	<i>Metopolophium dirhodum</i>
	8		2			2	2	2			<i>Metopolophium festucae</i> s.l.
											<i>Myzus ascalonicus</i>
											<i>Myzus certus</i>
					2			1		1	<i>Myzus ornatus</i>
44	20	28	30			2	18	23		3	<i>Myzus persicae</i> grp.
	2	2	2			4			3		<i>Nasonovia ribisnigri</i>
2	4		14		2	10	6	20	5	5	<i>Pemphigus</i> spp.
							2				<i>Pentatrichopus fragaefolii</i>
30	36	20	62		22	42	26	26	5		<i>Phorodon humuli</i>
	2	2			2		2				<i>Phyllaphis fagi</i>
189	882	1372	1100		436	1026	394	2294	532	215	<i>Rhopalosiphum insertum</i>
95	8	12	16		16		10	7	3	8	<i>Rhopalosiphum maidis</i>
859	1476	252	594		510	370	998	1612	2069	861	<i>Rhopalosiphum padi</i>
810	1306	490	1296		988	978	1208	1560	673	112	<i>Sitobion avenae</i>
27	130	42	42		20	68	60	48	24	29	<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1981, PART 2

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

Species	Elgin	Dundee	Edinburgh	Pathhead	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Kirton	Shardlow	Aberystwyth
<i>Acyrtosiphon pisum</i>	4	5	2	1	2	11	3	9	4	12	6	11
<i>Amphorophora rubi</i>									2			
<i>Aphis fabae</i> grp.	18	143	33	47	103	128	320	184	68	326	258	51
<i>Aphis</i> spp.	1	29	17	6	3	35	37	62	56	252	364	8
<i>Aulacorthum solani</i>		1			1	2			8			1
<i>Brachycaudus helichrysi</i>	41	121	52	64	41	61	37	73	50	110	116	42
<i>Brevicoryne brassicae</i>	10	224	38	40	3	16	3	5	8	12	30	
<i>Cavariella aegopodii</i>	2	5		1	3	1	3	4	4	10	2	
<i>Cinara</i> spp.	1	5	1				1	2	2	4		
<i>Drepanosiphum platanoidis</i>	17	68	11	28	15	73	17	73	194	20	34	1
<i>Dysaphis plantaginea</i>					1					2		
<i>Elatobium abietinum</i>						1						
<i>Eriosoma ulmi</i>	2	2			1		1				4	4
<i>Hyalopterus pruni</i>	23	1600	7	15	29	27	99	53	96	496	116	13
<i>Hyperomyzus lactucae</i>	1	2	2	1	1	6	5	5		18	4	2
<i>Macrosiphum euphorbiae</i>	6	78	33	5	3	2	18	2	8	20	22	13
<i>Megoura viciae</i>								1				
<i>Metopolophium dirhodum</i>	12	32	12	6	11	49	10	8	24	52	24	15
<i>Metopolophium festucae s.l.</i>	1		1		7	7		6		4	16	4
<i>Myzus ascalonicus</i>												
<i>Myzus certus</i>	1	4		1		3	4	1				
<i>Myzus ornatus</i>	2					1						
<i>Myzus persicae</i> grp.	72	229	46	23	13	48	1	15	14	10	16	8
<i>Nasonovia ribisnigri</i>	4	1	1	3				2		2	4	6
<i>Pemphigus</i> spp.	34	79	14	20	138	74	19	14	76	62	98	143
<i>Pentatrichopus fragaefolii</i>					2	1		2				
<i>Phorodon humuli</i>		2				1					2	
<i>Phyllaphis fagi</i>						3	1					
<i>Rhopalosiphum insertum</i>	207	393	276	348	923	821	1158	329	1582	294	556	387
<i>Rhopalosiphum maidis</i>						1	2	1		2		1
<i>Rhopalosiphum padi</i>	3424	7068	3109	2715	1930	1961	1616	1182	2154	2740	542	876
<i>Sitobion avenae</i>	150	437	136	203	71	240	574	456	338	536	542	259
<i>Sitobion fragariae</i>	3	15	15	7		52	22	19	12	36	12	7

ROTHAMSTED INSECT SURVEY

(f)
 of aphids of economic, or other, interest reported in the Weekly Bulletin 1981
 3 August to 9 September 1981

											Sites
Broom's Barn	Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Wye, Kent	Littlehampton	Starcross	Rosewarne	Species
4	14	2	12		4	2	8	12		9	<i>Acyrtosiphon pisum</i>
											<i>Amphorophora rubi</i>
34	110	20	22		10	10	24	12	22	67	<i>Aphis fabae</i> grp.
21	84	52	52		26	62	96	21	38	66	<i>Aphis</i> spp.
									2	1	<i>Aulacorthum solani</i>
49	54	34	36		10	14	24	28	18	11	<i>Brachycaudus helichrysi</i>
4	62	2	8		6	6	6	3	18	13	<i>Brevicoryne brassicae</i>
2	4	2				2	2	2		2	<i>Cavariella aegopodii</i>
1		4			4			1			<i>Cinara</i> spp.
8	2	24	12		6	4	2	13		42	<i>Drepanosiphum platanoidis</i>
							2				<i>Dysaphis plantaginea</i>
											<i>Elatobium abietinum</i>
											<i>Eriosoma ulmi</i>
61	96	130	212		74	118	278	142	58	18	<i>Hyalopterus pruni</i>
3	10	2					4	2	4	1	<i>Hyperomyzus lactucae</i>
4	14	4	14		4	14	8	5		4	<i>Macrosiphum euphorbiae</i>
22	2	2	38			6	8		2	3	<i>Megoura viciae</i>
29	76	6	26		18	8	20	9	10	8	<i>Metopolophium dirhodum</i>
	6						2			3	<i>Metopolophium festucae s.l.</i>
	8		2		2						<i>Myzus ascalonicus</i>
											<i>Myzus certus</i>
								4			<i>Myzus ornatus</i>
3	22		28		6	2	6	3		7	<i>Myzus persicae</i> grp.
1		2				4	2			3	<i>Nasonovia ribisnigri</i>
15	70	24	20		66	64	82	42	44	243	<i>Pemphigus</i> spp.
	78		2				8			1	<i>Pentatrachopus fragaefolii</i>
											<i>Phorodon humuli</i>
											<i>Phyllaphis fagi</i>
113	844	458	338		206	456	548	372	418	1415	<i>Rhopalosiphum insertum</i>
3	2		2			2	4	3	4	4	<i>Rhopalosiphum maidis</i>
420	786	346	440		110	178	726	262	364	1465	<i>Rhopalosiphum padi</i>
187	688	220	404		214	220	482	159	128	374	<i>Sitobion avenae</i>
14	46	10	18		14	8	34	4	14	85	<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1981, PART 2

TAB

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

Species	Elgin	Dundee	Edinburgh	Pathhead	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Kirton	Shardlow	Aberystwyth
<i>Acyrtosiphon pisum</i>		2				1		4		2	2	
<i>Amphorophora rubi</i>							1					
<i>Aphis fabae</i> grp.	4	29	10	23	9	89	3	29	44	96	48	
<i>Aphis</i> spp.	2	52	17	7	1	55	5	30	30	146	130	
<i>Aulacorthum solani</i>		1										
<i>Brachycaudus helichrysi</i>	47	75	25	38	5	47	8	155	20	28	38	
<i>Brevicoryne brassicae</i>	6	178	25	29	2	32		4	2	10	18	
<i>Cavariella aegopodii</i>	2	2		2		2	1	1	6	4	2	
<i>Cinara</i> spp.	2		1			1	1					
<i>Drepanosiphum platanoidis</i>	34	131	45	29	11	41	40	30	48	8	72	
<i>Dysaphis plantaginea</i>										4	6	
<i>Elatobium abietinum</i>												
<i>Eriosoma ulmi</i>							1		4		2	
<i>Hyalopterus pruni</i>	8	1691	8	4	3	10		47	6	134	14	
<i>Hyperomyzus lactucae</i>	3	5		2		9	1	11	2	20	14	
<i>Macrosiphum euphorbiae</i>		5	2	1		3	7	6	16	14	18	
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>	30	15	5	2	14	21	2	4	28	12	10	
<i>Metopolophium festucae</i> s.l.	1					2		1				
<i>Myzus ascalonicus</i>												
<i>Myzus certus</i>	1	1	4	1		1				2		
<i>Myzus ornatus</i>				2								
<i>Myzus persicae</i> grp.	22	66	16	22	1	51	1	7	12	2	4	
<i>Nasonovia ribisnigri</i>	5	2		1			1	7	4	4	6	
<i>Pemphigus</i> spp.	115	92	46	28	28	69	11	62	176	136	58	10
<i>Pentatrichopus fragaefolii</i>	1											
<i>Phorodon humuli</i>						1						
<i>Phyllaphis fagi</i>		2	2	2	1	3	1					
<i>Rhopalosiphum insertum</i>	1298	828	435	693	1050	1623	645	754	3604	134	546	11
<i>Rhopalosiphum maidis</i>							1					
<i>Rhopalosiphum padi</i>	6198	11073	4296	2660	698	3657	132	1549	972	154	332	1
<i>Sitobion avenae</i>	6	19	20	29	8	75	22	36	52	8	14	
<i>Sitobion fragariae</i>		3	1			15		5	2		14	

ROTHAMSTED INSECT SURVEY

aphids of economic, or other, interest reported in the Weekly Bulletin 1981
September to 7 October 1980

	Broom's Barn	Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Wye, Kent	Littlehampton	Starcross	Rosewarne	Sites	Species
	2							4	5		2		<i>Acyrtosiphon pisum</i>
			2	8			4		5	2	1		<i>Amphorophora rubi</i>
45				16		8	4	32	18	12	6		<i>Aphis fabae</i> grp.
10	12												<i>Aphis</i> spp.
													<i>Aulacorthum solani</i>
58	10	31	4		16	8	8	28	30	15	3		<i>Brachycaudus helichrysi</i>
2	4		2				2	6	4	4	6		<i>Brevicoryne brassicae</i>
1							2	2		2			<i>Cavariella aegopodii</i>
1								2					<i>Cinara</i> spp.
9	16	6	8		20	2	2	4	8		54		<i>Drepanosiphum platanoidis</i>
6		4			8		14	4	4				<i>Dysaphis plantaginea</i>
													<i>Elatobium abietinum</i>
3	2							2	2	2			<i>Eriosoma ulmi</i>
8		4					22	2	4	2			<i>Hyalopterus pruni</i>
6	2		2					4	1				<i>Hyperomyzus lactucae</i>
4	10	2	6		8	2	2	4	3	4			<i>Macrosiphum euphorbiae</i>
1													<i>Megoura viciae</i>
1	2				2			4					<i>Metopolophium dirhodum</i>
		2											<i>Metopolophium festucae</i> s.l.
	4							2					<i>Myzus ascalonicus</i>
													<i>Myzus certus</i>
													<i>Myzus ornatus</i>
7	10	1	10		6	4	4	12	8		6		<i>Myzus persicae</i> grp.
4			2				2		1	4	2		<i>Nasonovia ribisnigri</i>
32	22	12	22		34	36	92	92	25	24			<i>Pemphigus</i> spp.
													<i>Pentatrachopus fragaefolii</i>
	266	2					6	96					<i>Phorodon humuli</i>
	2												<i>Phyllaphis fagi</i>
96	204	142	68		230	166	504	129	220	220	33		<i>Rhopalosiphum insertum</i>
													<i>Rhopalosiphum maidis</i>
71	114	43	110		48	48	328	39	28	28	6		<i>Rhopalosiphum padi</i>
6		4	8		4	2	6	5	6	6	2		<i>Sitobion avenae</i>
		2	2			2	2	4	4	4			<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1981, PART 2

TABLE

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

Species	Elgin	Dundee	Edinburgh	Pathhead	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Kirton	Shardlow	Aberystwyth
<i>Acyrtosiphon pisum</i>												
<i>Amphorophora rubi</i>												
<i>Aphis fabae</i> grp.						1				132	2	
<i>Aphis</i> spp.						1			2	205	4	
<i>Aulacorthum solani</i>										3	1	
<i>Brachycaudus helichrysi</i>						1			1	9		
<i>Brevicoryne brassicae</i>												
<i>Cavariella aegopodii</i>							1		1	8		
<i>Cinara</i> spp.												
<i>Drepanosiphum platanoidis</i>	10	18	13	3		8	20	8	9	16	81	1
<i>Dysaphis plantaginea</i>										8		
<i>Elatobium abietinum</i>												
<i>Eriosoma ulmi</i>										2	3	1
<i>Hyalopterus pruni</i>										2	1	
<i>Hyperomyzus lactucae</i>								2		1		
<i>Macrosiphum euphorbiae</i>										4		
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>	1		1	1	2	3		2	23	10	7	1
<i>Metopolophium festucae</i> s.l.				1								
<i>Myzus ascalonicus</i>												
<i>Myzus certus</i>										1		
<i>Myzus ornatus</i>												
<i>Myzus persicae</i> grp.	1			1	1						2	
<i>Nasonovia ribisnigri</i>	1	1						1	1	3		
<i>Pemphigus</i> spp.	3			2	2	8	1	1	12	837	37	2
<i>Pentatrichopus fragaefolii</i>												
<i>Phorodon humuli</i>							1					
<i>Phyllaphis fagi</i>											1	
<i>Rhopalosiphum insertum</i>	93	109	43	16	122	158	301	164	764	495	280	429
<i>Rhopalosiphum maidis</i>												
<i>Rhopalosiphum padi</i>	153	227	155	46	66	140	9	68	71	1090	166	3
<i>Sitobion avenae</i>			2				1		1			
<i>Sitobion fragariae</i>						1	2	6	1	17	13	

Dundee trap not operating 9–19 October

ROTHAMSTED INSECT SURVEY

(h)
of aphids of economic, or other, interest reported in the Weekly Bulletin 1981
3 October to 4 November 1981

	Broom's Barn	Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Wye, Kent	Littlehampton	Starcross	Rosewarne	Sites	Species
				4					1				<i>Acyrtosiphon pisum</i>
46				10		1	2	2		1			<i>Amphorophora rubi</i>
2	1							2					<i>Aphis fabae</i> grp.
								2					<i>Aphis</i> spp.
1	3			3		3	1	1	1				<i>Aulacorthum solani</i>
				1									<i>Brachycaudus helichrysi</i>
12	1	1						2			1		<i>Brevicoryne brassicae</i>
													<i>Cavariella aegopodii</i>
8	5	14		3		20	6	5	3	2	13		<i>Cinara</i> spp.
				2			6		4	1			<i>Drepanosiphum platanoidis</i>
	9			4		1	4	16	1	1			<i>Dysaphis plantaginea</i>
2				2			4						<i>Elatobium abietinum</i>
					Trap not operating								<i>Eriosoma ulmi</i>
2										1			<i>Hyalopterus pruni</i>
													<i>Hyperomyzus lactucae</i>
													<i>Macrosiphum euphorbiae</i>
													<i>Megoura viciae</i>
								1	1				<i>Metopolophium dirhodum</i>
							1						<i>Metopolophium festucae</i> s.l.
													<i>Myzus ascalonicus</i>
													<i>Myzus certus</i>
													<i>Myzus ornatus</i>
3				3			1	1	1	1			<i>Myzus persicae</i> grp.
4								1		1			<i>Nasonovia ribisnigri</i>
10	7	3		3		2	16	5	3	7			<i>Pemphigus</i> spp.
	2							7					<i>Pentatrachopus fragaefolii</i>
													<i>Phorodon humuli</i>
										1			<i>Phyllaphis fagi</i>
196	154	117		73		214	169	231	166	721	158		<i>Rhopalosiphum insertum</i>
													<i>Rhopalosiphum maidis</i>
44	29	23		59		25	38	111	34	50	4		<i>Rhopalosiphum padi</i>
				1			1		1				<i>Sitobion avenae</i>
9	1	1		4		5	20	3	4	6			<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1981, PART 2

TABLE
The Rothamsted Insect Survey—Light Traps: annual records

Pest Species	Year	Reay	Stronchrubie	Inverpolly	Knockan	Cromarty	Newton, Elgin	Beinn Eighe	Rannoch	Dundee	Rowardennan	East Craigs	Glentress	Culzean Castle	Auchincruive
		415	418	352	351	398	58	350	29	47	97	261	339	264	293
<i>Gortyna micacea</i> Rosy Rustic	1979	—	—	14	—	45	—	41	48	0	8	7	—	20	0
	1980	67	2	33	0	23	156	43	49	4	12	13	60	23	4
<i>Bupalus piniaria</i> Bordered White	1979	—	—	0	—	0	—	0	0	0	0	0	—	1	0
	1980	0	0	0	0	0	0	1	0	0	0	0	0	1	0
<i>Panolis flammea</i> Pine Beauty	1979	—	—	0	—	0	—	0	0	0	0	0	—	1	0
	1980	0	0	0	0	0	0	1	0	0	0	0	0	4	0
<i>Cerapteryx graminis</i> Antler Moth	1979	—	—	94	—	4	—	21	50	3	2	5	—	12	5
	1980	32	82	243	53	10	11	44	59	3	6	12	34	11	8
<i>Erannis aurantiaria</i> Scarce Umber	1979	—	—	30	—	141	—	6	470	0	185	0	—	1	0
	1980	0	2	85	4	61	14	25	469	1	178	0	0	0	0
<i>Operophtera fagata</i> Northern Winter Moth	1979	—	—	17	—	1	—	0	105	0	29	0	—	0	0
	1980	0	1	29	0	9	1	2	72	0	14	0	0	1	0
<i>Apamea sordens</i> Rustic Shoulder-knot	1979	—	—	0	—	3	—	0	0	0	0	3	—	1	1
	1980	0	0	0	0	3	1	0	0	6	0	19	0	1	2
<i>Gortyna flavago</i> Frosted Orange	1979	—	—	0	—	1	—	0	0	0	0	0	—	2	0
	1980	0	0	0	0	0	12	0	0	1	0	0	1	0	0
<i>Mamestra brassicae</i> Cabbage Moth	1979	—	—	0	—	0	—	0	0	6	0	3	—	1	0
	1980	0	0	0	0	0	3	0	0	9	0	2	0	0	0
<i>Noctua pronuba</i> Large Yellow Underwing	1979	—	—	5	—	44	—	2	2	16	1	5	—	9	2
	1980	1	2	8	0	11	17	1	1	20	3	9	8	19	3
<i>Diataraxia oleracea</i> Bright-line Brown-eye	1979	—	—	8	—	1	—	0	0	0	0	3	—	4	0
	1980	0	0	4	0	1	2	0	0	1	0	1	0	1	1
<i>Euxoa nigricans</i> Garden Dart	1979	—	—	0	—	0	—	0	0	0	0	0	—	0	0
	1980	0	0	0	0	1	0	0	0	0	0	5	0	0	0
<i>Apamea secalis</i> Common Rustic	1979	—	—	7	—	22	—	0	0	3	1	30	—	7	4
	1980	15	1	1	1	3	73	3	1	9	3	36	9	0	10
<i>Melanchra persicariae</i> Dot Moth	1979	—	—	0	—	0	—	0	0	0	0	0	—	0	0
	1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Operophtera brumata</i> Winter Moth	1979	—	—	10	—	31	—	18	27	0	202	0	—	7	0
	1980	1	0	27	8	4	5	31	19	5	134	0	3	1	0

ROTHAMSTED INSECT SURVEY

2(a)
of moths of economic, or other importance for 1979 and 1980

	Waterside Mains	Kielder	Gatehouse of Fleet	Alston	Windermere	Wykeham	Arnside	Baldersby	Castletown, I.O.M.	Acomb	Harrogate	Hayton	Preston	Longridge	Year	Pest Species
	338	296	287	408	323	187	403	315	306	363	410	291	288	124		
	—	34	—	—	—	66	19	71	13	5	—	—	4	5	1979	<i>Gortyna micacea</i>
125	28	23	85	2	49	20	64	20	3	9	15	15	2	1980	Rosy Rustic	
	—	1	—	—	—	2	0	0	0	—	—	0	0	1979	<i>Bupalus piniaria</i>	
0	0	0	0	2	2	0	0	0	0	0	0	0	0	1980	Bordered White	
	—	0	—	—	—	1	0	0	0	—	—	0	0	1979	<i>Panolis flammea</i>	
0	0	0	0	0	13	0	0	0	0	1	0	0	0	1980	Pine Beauty	
	—	5	—	—	—	8	0	3	3	0	—	—	0	1979	<i>Cerapteryx graminis</i>	
25	18	9	32	2	17	4	3	6	0	2	3	0	1	1980	Antler Moth	
	—	23	—	—	—	12	11	7	0	1	—	—	5	1979	<i>Erannis aurantiaria</i>	
20	24	14	3	0	5	0	11	0	4	14	2	1	10	1980	Scarce Umber	
	—	68	—	—	—	—	6	0	0	—	—	—	0	1979	<i>Operophtera fagata</i>	
126	89	3	19	0	4	6	0	0	0	27	1	0	0	1980	Northern Winter Moth	
	—	0	—	—	—	0	0	5	4	0	—	—	0	1979	<i>Apamea sordens</i>	
0	0	0	0	0	3	0	7	0	5	0	6	0	0	1980	Rustic Shoulder-knot	
	—	0	—	—	—	0	1	1	0	—	—	—	0	1979	<i>Gortyna flavago</i>	
4	0	1	0	0	0	2	8	0	0	0	3	1	0	1980	Frosted Orange	
	—	0	—	—	—	1	0	16	1	4	—	—	1	1979	<i>Mamestra brassicae</i>	
0	0	0	0	8	2	0	11	0	1	0	7	2	0	1980	Cabbage Moth	
	—	5	—	—	—	8	9	4	9	1	—	—	6	1979	<i>Noctua pronuba</i>	
119	4	24	49	123	33	17	42	18	5	18	35	29	6	1980	Large Yellow Underwing	
	—	0	—	—	—	0	0	5	2	3	—	—	5	1979	<i>Diataraxia oleracea</i>	
0	0	0	0	0	0	0	3	3	0	0	2	2	0	1980	Bright-line Brown-eye	
	—	0	—	—	—	0	0	0	0	0	—	—	0	1979	<i>Euxoa nigricans</i>	
0	0	0	0	0	0	0	0	0	0	1	0	0	0	1980	Garden Dart	
	—	7	—	—	—	8	5	27	122	1	—	—	17	1979	<i>Apamea secalis</i>	
12	1	10	0	29	11	2	68	37	3	20	21	8	6	1980	Common Rustic	
	—	0	—	—	—	0	1	0	0	8	—	—	0	1979	<i>Melanchnra persicariae</i>	
0	0	0	0	9	1	2	0	0	0	1	0	3	0	1980	Dot Moth	
	—	103	—	—	—	—	187	28	23	13	—	—	17	1979	<i>Operophtera brumata</i>	
102	70	48	21	5	14	70	8	29	5	20	13	1	6	1980	Winter Moth	

ROTHAMSTED REPORT FOR 1981, PART 2

TABLE
The Rothamsted Insect Survey—Light Traps: annual records

Pest Species	Year	Tarleton	Spurn Head	East Didsbury	Bangor	Jodrell Bank	Gleadthorpe	Matlock	Hope	Gibraltar Point	Leek	Empingham	Wells next the Sea	Shardlow	Sutton Bonington
<i>Gortyna micacea</i> Rosy Rustic	1979	11	43	5	0	21	40	5	—	9	—	280	1	12	14
	1980	12	42	4	0	24	21	5	24	13	21	4	1	9	7
<i>Bupalus piniaria</i> Bordered White	1979	0	0	0	0	0	0	0	—	0	—	0	0	1	0
	1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Panolis flammea</i> Pine Beauty	1979	0	0	0	0	0	0	0	—	0	—	0	0	0	0
	1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cerapteryx graminis</i> Antler Moth	1979	1	70	1	0	91	4	1	—	2	—	0	0	0	1
	1980	2	73	0	1	100	8	6	1	14	16	0	0	0	0
<i>Erannis aurantiaria</i> Scarce Umber	1979	0	0	1	0	22	1	0	—	0	—	0	0	2	1
	1980	0	0	0	0	14	0	0	0	0	0	1	0	0	0
<i>Operophtera fagata</i> Northern Winter Moth	1979	0	0	0	0	4	3	0	—	0	—	0	0	0	0
	1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Apamea sordens</i> Rustic Shoulder-knot	1979	1	0	0	0	0	0	4	—	2	—	0	0	0	1
	1980	1	5	0	0	0	0	0	18	1	8	3	0	0	3
<i>Gortyna flavago</i> Frosted Orange	1979	2	1	0	0	1	11	0	—	1	—	1	0	1	3
	1980	0	1	1	0	2	12	0	0	0	0	2	0	1	1
<i>Mamestra brassicae</i> Cabbage Moth	1979	7	2	5	10	0	3	18	—	0	—	20	4	1	0
	1980	9	0	1	2	0	3	7	17	0	5	18	3	2	5
<i>Noctua pronuba</i> Large Yellow Underwing	1979	13	30	2	9	11	8	37	—	4	—	44	5	11	39
	1980	22	59	5	12	12	6	14	29	15	108	54	6	5	28
<i>Diataraxia oleracea</i> Bright-line Brown-eye	1979	14	53	0	3	0	13	10	—	1	—	7	3	22	15
	1980	12	41	0	0	0	37	1	2	4	2	2	1	7	16
<i>Euxoa nigricans</i> Garden Dart	1979	0	0	0	0	2	0	1	—	0	—	1	0	0	0
	1980	1	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Apamea secalis</i> Common Rustic	1979	15	17	2	5	3	21	28	—	10	—	90	0	8	52
	1980	10	9	1	3	9	14	51	53	5	16	44	4	10	45
<i>Melanchra persicariae</i> Dot Moth	1979	15	1	0	0	0	0	1	—	0	—	11	1	0	1
	1980	4	0	0	0	0	1	0	0	0	2	14	0	0	3
<i>Operophtera brumata</i> Winter Moth	1979	0	17	0	0	54	8	9	—	5	—	47	3	4	16
	1980	0	4	0	0	25	4	0	6	0	1	32	1	1	4

ROTHAMSTED INSECT SURVEY

2(b)

of moths of economic, or other importance for 1979 and 1980

	Preston Montford	Wolverhampton I	Santon Downham	Aberystwyth	Monks Wood	Monks Wood (Ewingswode)	Broom's Barn	Tregaron	Waresley	Luddington	Cockayne Hatley	Hereford	Rhandirmwyn	Year	Pest Species
	382	267	259	340	94	277	88	331	360	414	336	212	346		
	47	0	—	7	41	—	3	39	21	—	14	—	32	1979	<i>Gortyna micacea</i>
	21	0	10	13	19	8	4	18	10	5	11	10	29	1980	Rosy Rustic
	0	0	—	3	0	—	0	0	0	—	0	—	0	1979	<i>Bupalus piniaria</i>
	0	0	0	1	0	0	0	0	0	0	0	0	0	1980	Bordered White
	0	0	—	0	0	—	0	0	0	—	0	—	0	1979	<i>Panolis flammea</i>
	0	0	69	1	0	1	0	0	0	0	0	0	0	1980	Pine Beauty
	1	0	—	1	0	—	1	88	0	—	0	—	3	1979	<i>Cerapteryx graminis</i>
	1	0	21	0	1	0	1	165	1	0	0	1	19	1980	Antler Moth
	10	0	—	3	0	—	0	115	0	—	0	—	309	1979	<i>Erannis aurantiaria</i>
	2	0	4	0	0	74	0	41	0	2	0	0	270	1980	Scarce Umber
	0	0	—	1	2	—	0	188	0	—	0	—	7	1979	<i>Operophtera fagata</i>
	1	0	0	0	0	127	0	53	0	0	0	0	10	1980	Northern Winter Moth
	1	0	—	0	0	—	2	0	13	—	3	—	0	1979	<i>Apamea sordens</i>
	3	0	4	0	6	3	0	0	28	1	4	0	3	1980	Rustic Shoulder-knot
	1	0	—	0	3	—	0	8	4	—	2	—	2	1979	<i>Gortyna flavago</i>
	3	0	1	1	5	6	0	10	7	0	2	0	2	1980	Frosted Orange
	2	0	—	0	0	—	6	0	2	—	0	—	0	1979	<i>Mamestra brassicae</i>
	3	0	12	1	0	0	3	0	6	11	1	0	1	1980	Cabbage Moth
	4	1	—	7	3	—	2	22	10	—	4	—	40	1979	<i>Noctua pronuba</i>
	24	2	2	36	6	13	0	50	8	11	6	3	63	1980	Large Yellow Underwing
	2	1	—	1	0	—	0	4	30	—	7	—	4	1979	<i>Diataraxia oleracea</i>
	10	4	0	1	0	1	2	1	19	1	21	0	4	1980	Bright-line Brown-eye
	0	10	—	0	1	—	1	0	4	—	2	—	0	1979	<i>Euxoa nigricans</i>
	0	9	2	0	0	7	1	0	5	0	3	0	0	1980	Garden Dart
	66	0	—	27	3	—	5	10	38	—	10	—	8	1979	<i>Apamea secalis</i>
	52	3	14	18	8	4	15	7	13	13	15	25	6	1980	Common Rustic
	1	0	—	1	0	—	1	1	2	—	2	—	2	1979	<i>Melanchra persicariae</i>
	1	0	7	1	0	0	0	0	10	5	0	0	1	1980	Dot Moth
	25	0	—	15	54	—	1	352	21	—	65	—	267	1979	<i>Operophtera brumata</i>
	12	0	6	14	2	285	0	196	2	0	1	0	319	1980	Winter Moth

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TABLE
The Rothamsted Insect Survey—Light Traps: annual records

Pest Species	Year	Trelech	Eaton Bray	Rothamsted (Barnfield)	Rothamsted (Allotments)	Rothamsted (Geescroft)	Writtle	Dale Fort	Chigwell Row	Westonbirt	Hurley	Lambourne	Cardiff	Sheppey	Stratfield Mortimer
<i>Gortyna micacea</i> Rosy Rustic	1979	17	—	4	2	10	2	—	1	2	8	—	0	12	3
	1980	20	0	21	6	11	3	6	0	1	13	0	1	6	0
<i>Bupalus piniaria</i> Bordered White	1979	0	—	0	0	0	0	—	0	4	0	—	0	0	0
	1980	0	0	0	0	0	0	0	0	3	0	0	0	0	0
<i>Panolis flammea</i> Pine Beauty	1979	0	—	0	0	0	0	—	0	0	0	—	0	0	0
	1980	0	0	0	0	0	0	0	0	0	1	0	0	0	2
<i>Cerapteryx graminis</i> Antler Moth	1979	2	—	0	1	0	0	—	1	0	0	—	0	0	0
	1980	2	1	0	0	0	0	0	0	0	1	4	0	2	0
<i>Erannis aurantiaria</i> Scarce Umber	1979	0	—	0	0	23	0	—	1	18	7	—	0	0	6
	1980	0	0	0	0	20	4	0	1	5	1	1	0	0	9
<i>Operophtera fagata</i> Northern Winter Moth	1979	0	—	0	0	3	0	—	3	4	10	—	0	1	0
	1980	0	0	0	0	0	0	0	1	4	1	0	0	0	0
<i>Apamea sordens</i> Rustic Shoulder-knot	1979	0	—	2	0	1	1	—	0	0	1	—	0	0	0
	1980	0	5	6	1	0	0	0	0	0	0	6	5	0	0
<i>Gortyna flavago</i> Frosted Orange	1979	10	—	0	0	1	0	—	0	1	1	—	0	0	1
	1980	6	2	1	0	0	3	0	0	1	7	0	0	1	1
<i>Mamestra brassicae</i> Cabbage Moth	1979	0	—	3	3	0	2	—	8	1	0	—	1	0	2
	1980	0	2	2	0	2	5	0	23	0	0	0	4	4	1
<i>Noctua pronuba</i> Large Yellow Underwing	1979	25	—	46	5	217	3	—	4	48	8	—	14	12	12
	1980	32	2	66	13	244	5	5	17	47	20	5	29	0	28
<i>Diataraxia oleracea</i> Bright-line Brown-eye	1979	0	—	24	3	8	14	—	4	0	2	—	10	20	2
	1980	0	5	25	1	3	11	2	3	0	1	0	10	14	1
<i>Euxoa nigricans</i> Garden Dart	1979	0	—	5	0	2	2	—	0	0	0	—	0	0	1
	1980	0	0	2	1	5	1	6	11	0	0	0	0	0	1
<i>Apamea secalis</i> Common Rustic	1979	49	—	90	7	57	21	—	25	39	17	—	35	17	11
	1980	12	12	179	23	42	32	13	9	8	10	16	40	13	7
<i>Melanchra persicariae</i> Dot Moth	1979	0	—	0	0	3	3	—	0	0	1	—	0	1	0
	1980	0	4	0	0	1	3	0	1	0	0	0	1	1	0
<i>Operophtera brumata</i> Winter Moth	1979	18	—	7	0	156	19	—	7	29	14	—	2	3	162
	1980	17	1	1	0	101	3	0	5	11	0	11	0	0	88

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	Windlesham	Wisley	Lordsfield	Alice Holt	Haslemere	Winchester	Lydd	Denny Lodge	Starcross	Yarner Wood	Rosewarne	Guernsey	Jersey	Year	Pest Species
	171	289	406	46	219	379	366	368	149	266	114	252	146		
0	2	—	4	3	2	10	0	8	5	4	4	2	1	1979	<i>Gortyna micacea</i>
0	2	11	9	2	7	4	0	3	3	4	1	2	2	1980	Rosy Rustic
5	2	—	0	0	0	0	0	0	0	0	0	0	0	1979	<i>Bupalus piniaria</i>
2	0	0	0	0	0	0	0	0	0	0	0	0	0	1980	Bordered White
1	0	—	0	0	0	0	0	0	0	0	0	0	0	1979	<i>Panolis flammea</i>
4	3	3	3	0	0	0	0	1	0	2	1	2	0	1980	Pine Beauty
0	1	—	10	1	0	33	0	6	6	0	0	0	0	1979	<i>Cerapteryx graminis</i>
0	0	0	10	0	1	7	0	1	2	0	0	0	0	1980	Antler Moth
27	1	—	—	16	0	0	15	0	63	0	0	0	0	1979	<i>Erannis aurantiaria</i>
12	1	3	—	11	0	0	3	0	102	0	0	0	0	1980	Scarce Umber
0	1	—	—	2	0	0	0	0	1	0	0	0	0	1979	<i>Operophtera fagata</i>
0	1	0	—	1	1	0	4	0	14	0	0	0	0	1980	Northern Winter Moth
0	4	—	0	0	2	0	0	0	0	0	0	0	0	1979	<i>Apamea sordens</i>
0	4	5	0	0	3	0	0	0	0	0	0	0	0	1980	Rustic Shoulder-knot
0	1	—	1	0	1	0	1	0	8	0	0	0	1	1979	<i>Gortyna flavago</i>
0	0	0	0	0	0	0	0	0	6	0	0	0	1	1980	Frosted Orange
9	4	—	0	5	5	0	0	1	0	5	1	11	8	1979	<i>Mamestra brassicae</i>
7	7	1	0	2	1	0	0	0	0	8	11	8	8	1980	Cabbage Moth
4	1	—	10	9	22	3	2	0	29	7	1	0	0	1979	<i>Noctua pronuba</i>
15	5	26	21	9	34	2	4	4	74	19	2	3	3	1980	Large Yellow Underwing
2	1	—	1	6	30	4	3	1	1	10	10	9	9	1979	<i>Diataraxia oleracea</i>
0	0	1	0	0	12	0	1	3	4	4	4	18	6	1980	Bright-line Brown-eye
1	0	—	0	0	0	0	0	0	0	6	0	0	0	1979	<i>Euxoa nigricans</i>
1	0	1	0	0	0	0	0	0	0	0	0	0	0	1980	Garden Dart
6	16	—	16	9	55	321	1	9	30	8	3	16	16	1979	<i>Apamea secalis</i>
6	21	11	1	20	39	24	5	19	13	14	12	1	1	1980	Common Rustic
0	0	—	0	1	1	3	0	0	0	3	0	0	0	1979	<i>Melanchra persicariae</i>
0	1	1	0	1	0	5	0	0	0	2	0	0	0	1980	Dot Moth
13	9	—	—	20	4	0	2	6	269	3	1	3	3	1979	<i>Operophtera brumata</i>
9	9	15	—	23	1	0	19	3	76	2	7	1	1	1980	Winter Moth

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Pest Species	Year	Reay	Stronchrubie	Inverpolly	Knockan	Cromarty	Newton, Elgin	Beinn Eighe	Rannoch	Dundee	Rowardennan	East Craigs	Glentress	Culzean Castle	Auchincruive
		415	418	352	351	398	58	350	29	47	97	261	339	264	293
<i>Abraxas grossulariata</i> Magpie Moth	1979	—	—	13	—	0	—	80	0	0	0	0	—	1	0
	1980	0	34	16	6	0	0	46	0	0	0	0	2	0	0
<i>Agrotis segetum</i> Turnip Moth	1979	—	—	0	—	0	—	0	0	0	0	—	—	1	0
	1980	0	0	0	0	0	0	0	0	3	0	1	1	0	1
<i>Erannis defoliaria</i> Mottled Umber	1979	—	—	1	—	3	—	4	24	1	1984	0	—	5	0
	1980	0	0	8	0	11	3	13	26	2	1453	0	4	3	0
<i>Phlogophora meticulosa</i> Angle Shades	1979	—	—	0	—	0	—	0	0	0	0	—	—	0	0
	1980	1	0	3	0	0	0	0	0	0	0	0	0	0	0
<i>Alsophila aescularia</i> March Moth	1979	—	—	0	—	0	—	0	0	3	66	1	—	8	1
	1980	0	0	0	0	0	2	0	0	0	—	0	0	14	0
<i>Hepialus humuli</i> Ghost Swift	1979	—	—	0	—	2	—	0	3	0	0	0	—	4	0
	1980	0	0	0	0	0	0	0	0	0	7	0	1	0	0
<i>Hepialus lupulina</i> Common Swift	1979	—	—	7	—	0	—	0	7	1	0	0	—	0	7
	1980	0	0	4	0	0	0	0	3	1	0	2	1	0	0
<i>Agrotis ipsilon</i> Dark Sword Grass	1979	—	—	1	—	2	—	0	0	0	0	—	—	0	0
	1980	0	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Euproctis chryssorrhoea</i> Brown-tail	1979	—	—	0	—	0	—	0	0	0	0	—	—	0	0
	1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrotis exclamationis</i> Heart and Dart	1979	—	—	0	—	2	—	1	0	6	0	15	—	54	29
	1980	0	0	0	0	0	1	4	0	2	0	51	2	16	4
<i>Plusia gamma</i> Silver Y	1979	—	—	0	—	3	—	0	6	2	0	0	—	4	0
	1980	3	3	8	1	13	1	10	3	13	1	1	5	12	0
<i>Laphygma exigua</i> Small Mottled Willow	1979	—	—	0	—	0	—	0	0	0	0	—	—	0	0
	1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nycterosea obstipata</i> The Gem	1979	—	—	0	—	0	—	0	0	0	0	—	—	0	0
	1980	0	1	0	0	0	0	0	0	0	0	0	1	1	0
<i>Nomophila noctuella</i> Rush Veneer Pearl	1979	—	—	0	—	0	—	0	0	0	0	—	—	0	0
	1980	0	0	0	0	0	1	1	0	5	2	0	0	9	2
<i>Plutella maculipennis</i> Diamond-back Moth	1979	—	—	0	—	2	—	0	0	0	0	—	—	0	29
	1980	15	96	0	209	0	7	0	0	2534	0	11	0	7	647
<i>Udea ferrugalis</i> Rusty Dot Pearl	1979	—	—	0	—	0	—	0	0	0	0	—	—	0	0
	1980	0	1	0	6	17	24	1	0	49	19	0	18	179	13

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	Waterside Mains	Kielder	Gatehouse of Fleet	Alston	Windermere	Wykeham	Arnside	Baldersby	Castletown I.O.M.	Acomb	Harrogate	Hayton	Preston	Longridge	Year	Pest Species
	338	296	287	408	323	187	403	315	306	363	410	291	288	124		
	—	0	—	—	—	0	10	11	13	5	—	—	4	0	1979	<i>Abraxas grossulariata</i>
	0	0	4	0	0	4	10	3	7	9	0	6	1	1	1980	Magpie Moth
	—	0	—	—	—	0	0	1	0	—	—	—	0	0	1979	<i>Agrotis segetum</i>
	0	0	1	0	1	0	0	1	1	0	0	0	0	0	1980	Turnip Moth
	—	13	—	—	—	53	26	5	16	3	—	—	15	16	1979	<i>Erannis defoliaria</i>
251	16	95	1	2	21	18	8	2	2	8	5	6	22	1980	Mottled Umber	
	—	0	—	—	—	0	5	2	18	0	—	—	2	0	1979	<i>Phlogophora meticulosa</i>
	5	0	4	0	11	1	1	2	12	0	0	1	1	0	1980	Angle Shades
	—	0	—	—	—	—	24	20	0	—	—	—	11	7	1979	<i>Alsophila aescularia</i>
19	0	44	1	2	12	28	8	0	0	0	27	11	7	1980	March Moth	
	—	0	—	—	—	3	0	0	0	—	—	—	2	0	1979	<i>Hepialus humuli</i>
	0	0	0	0	0	1	2	0	0	0	0	3	1	0	1980	Ghost Swift
	—	0	—	—	—	0	1	9	0	—	—	—	3	0	1979	<i>Hepialus lupulina</i>
	0	0	0	4	0	0	1	17	0	1	64	25	0	1	1980	Common Swift
	—	1	—	—	—	0	0	0	1	0	—	—	0	0	1979	<i>Agrotis ipsilon</i>
2	0	1	2	0	0	0	0	0	8	0	0	0	0	0	1980	Dark Sword Grass
	—	0	—	—	—	0	0	0	0	—	—	—	0	0	1979	<i>Euproctis chryssorrhoea</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1980	Brown-tail
	—	0	—	—	—	13	9	11	124	15	—	—	14	11	1979	<i>Agrotis exclamationis</i>
14	0	1	0	44	10	11	18	63	37	31	23	5	14	14	1980	Heart and Dart
	—	0	—	—	—	5	19	47	40	86	—	—	14	1	1979	<i>Plusia gamma</i>
60	6	15	12	2	7	42	103	56	54	1	47	41	3	1980	Silver Y	
	—	0	—	—	—	0	1	0	0	—	—	—	0	0	1979	<i>Laphygma exigua</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1980	Small Mottled Willow
	—	0	—	—	—	0	0	0	0	—	—	—	0	0	1979	<i>Nycterosea obstipata</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1980	The Gem
	—	0	—	—	—	0	0	0	0	—	—	—	1	0	1979	<i>Nomophila noctuella</i>
	0	0	2	0	0	0	0	0	1	0	0	—	5	0	1980	Rush Veneer Pearl
	—	0	—	—	—	9	0	5	0	15	—	—	1	0	1979	<i>Plutella maculipennis</i>
	0	2	9	0	4	196	0	225	0	869	0	—	222	4	1980	Diamond-back Moth
	—	0	—	—	—	0	0	0	0	—	—	—	0	0	1979	<i>Udea ferrugalis</i>
116	64	65	0	82	7	5	106	0	13	0	—	—	117	10	1980	Rusty Dot Pearl

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Pest Species	Year	Tarleton	Spurn Head	East Didsbury	Bangor	Jodrell Bank	Gleadthorpe	Matlock	Hope	Gibraltar Point	Leek	Empingham	Wells next the Sea	Shardlow	Sutton Bonington
<i>Abraxas grossulariata</i> Magpie Moth	1979	7	1	0	1	1	2	28	—	0	—	44	11	6	0
	1980	4	0	1	0	0	0	15	28	0	1	25	1	3	2
<i>Agrotis segetum</i> Turnip Moth	1979	0	0	0	0	0	0	0	—	0	—	2	0	0	2
	1980	1	1	0	0	0	16	0	1	0	0	4	1	2	2
<i>Erannis defoliaria</i> Mottled Umber	1979	0	1	1	1	66	0	3	—	0	—	1	1	5	1
	1980	0	1	0	0	99	0	0	9	0	1	3	0	0	1
<i>Phlogophora meticulosa</i> Angle Shades	1979	3	7	0	1	0	1	1	—	1	—	6	1	0	2
	1980	4	4	0	2	1	0	2	2	1	0	19	1	0	2
<i>Alsophila aescularia</i> March Moth	1979	1	0	1	0	33	2	3	—	0	—	5	0	2	5
	1980	2	0	1	0	18	8	3	2	4	3	4	2	6	15
<i>Hepialus humuli</i> Ghost Swift	1979	0	0	0	0	1	0	0	—	0	—	0	2	0	1
	1980	2	0	1	0	2	1	0	1	0	0	0	1	0	2
<i>Hepialus lupulina</i> Common Swift	1979	2	6	4	0	2	10	4	—	4	—	57	4	3	44
	1980	0	42	4	0	2	46	6	5	7	7	99	15	18	92
<i>Agrotis ipsilon</i> Dark Sword Grass	1979	0	1	0	0	0	0	0	—	0	—	0	0	0	0
	1980	0	2	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euproctis chrysorrhoea</i> Brown-tail	1979	0	0	0	0	0	0	0	—	0	—	0	0	0	0
	1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrotis exclamationis</i> Heart and Dart	1979	8	18	11	5	6	26	8	—	18	—	33	6	70	61
	1980	18	52	6	19	24	67	12	125	73	73	150	10	212	334
<i>Plusia gamma</i> Silver Y	1979	21	66	0	1	4	2	4	—	8	—	44	5	4	3
	1980	21	79	0	2	10	10	8	89	63	9	41	5	23	6
<i>Laphygma exigua</i> Small Mottled Willow	1979	0	0	0	0	0	0	0	—	0	—	0	0	0	0
	1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nycterosea obstipata</i> The Gem	1979	0	0	0	0	0	0	0	—	0	—	0	0	0	0
	1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nomophila noctuella</i> Rush Veneer Pearl	1979	0	6	0	0	0	0	0	—	0	—	0	0	—	0
	1980	0	1	0	0	0	1	0	0	1	0	0	0	1	0
<i>Plutella maculipennis</i> Diamond-back Moth	1979	0	31	0	1	0	0	6	—	0	—	3	0	—	1
	1980	1	600	0	6	0	236	76	3	0	167	10	0	534	19
<i>Udea ferrugalis</i> Rusty Dot Pearl	1979	0	1	0	0	0	0	0	—	0	—	0	0	—	0
	1980	1	0	0	1	0	8	0	71	0	3	0	0	0	0

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	Preston Montford	Wolverhampton I	Santon Downham	Aberystwyth	Monks Wood	Monks Wood (Ewingswoode)	Broom's Barn	Tregaron	Waresley	Luddington	Cockayne Hatley	Hereford	Rhandirmwyn	Year	Pest Species
	382	267	259	340	94	277	88	331	360	414	336	212	346		
0	0	—	—	12	6	—	2	17	18	—	10	—	3	1979	<i>Abraxas grossulariata</i>
5	0	1	7	12	107	1	18	18	—	1	1	4	2	1980	Magpie Moth
0	0	—	0	0	—	0	0	2	—	—	2	—	0	1979	<i>Agrotis segetum</i>
0	1	0	0	0	4	6	1	5	14	27	0	0	0	1980	Turnip Moth
40	0	—	30	1	—	0	657	4	—	4	—	1452	1979	<i>Erannis defoliaria</i>	
26	0	2	13	0	480	0	264	1	0	0	2	1118	1980	Mottled Umber	
3	0	—	1	2	—	1	5	6	—	1	—	8	1979	<i>Phlogophora meticulosa</i>	
0	0	3	1	2	8	7	7	4	1	0	1	6	1980	Angle Shades	
55	0	—	—	4	—	2	41	30	—	10	—	19	1979	<i>Alsophila aescularia</i>	
29	0	17	5	7	127	7	99	27	2	4	19	22	1980	March Moth	
1	0	—	1	1	—	0	0	1	—	2	—	0	1979	<i>Hepialus humuli</i>	
2	0	2	0	1	0	0	0	0	0	0	2	0	1980	Ghost Swift	
0	0	—	0	35	—	4	1	7	—	44	—	0	1979	<i>Hepialus lupulina</i>	
2	0	1	0	74	119	6	0	3	3	5	0	0	1980	Common Swift	
1	0	—	0	0	—	0	1	0	—	0	—	0	1979	<i>Agrotis ipsilon</i>	
0	0	0	0	0	0	0	1	0	0	0	0	1	1980	Dark Sword Grass	
0	0	—	0	0	—	0	0	0	—	0	—	0	1979	<i>Euproctis chrysorrhoea</i>	
0	0	0	0	0	0	0	0	0	0	0	0	0	1980	Brown-tail	
44	1	—	9	24	—	9	44	42	—	13	—	7	1979	<i>Agrotis exclamationis</i>	
133	2	23	34	40	13	25	34	120	234	90	79	47	1980	Heart and Dart	
8	0	—	17	3	—	9	7	31	—	3	—	26	1979	<i>Plusia gamma</i>	
9	0	19	14	12	34	11	28	17	4	7	6	76	1980	Silver Y	
0	0	—	0	0	—	0	0	0	—	0	—	0	1979	<i>Laphygma exigua</i>	
0	0	0	0	0	0	0	0	0	0	0	0	0	1980	Small Mottled Willow	
0	0	—	0	0	—	0	0	0	—	0	—	0	1979	<i>Nycterosea obstipata</i>	
0	0	0	1	0	0	0	1	0	0	0	1	0	1980	The Gem	
0	0	—	—	0	—	0	—	0	—	1	—	0	1979	<i>Nomophila noctuella</i>	
4	0	0	—	0	0	8	—	0	0	0	9	4	1980	Rush Veneer Pearl	
0	0	—	—	10	—	3	—	22	—	31	—	0	1979	<i>Plutella maculipennis</i>	
51	0	0	—	162	2	19	—	88	129	415	78	1	1980	Diamond-back Moth	
0	0	—	—	0	—	1	—	0	—	1	—	2	1979	<i>Udea ferrugalis</i>	
70	0	1	—	3	9	4	—	0	11	1	11	42	1980	Rusty Dot Pearl	

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<i>Abraxas grossulariata</i> Magpie Moth	1979	41	—	3	1	41	7	—	305	292	180	—	347	370	16
	1980	20	65	1	1	23	5	36	0	0	0	2	2	2	23
<i>Agrotis segetum</i> Turnip Moth	1979	0	—	4	1	8	2	—	0	3	1	—	0	0	0
	1980	0	2	15	17	11	4	7	0	0	1	0	0	2	1
<i>Erannis defoliaria</i> Mottled Umber	1979	14	—	0	0	43	3	—	1	79	5	—	0	0	28
	1980	1	0	0	0	36	0	0	2	13	7	4	1	0	33
<i>Phlogophora meticulosa</i> Angle Shades	1979	9	—	0	0	4	1	—	2	10	0	—	1	8	0
	1980	8	1	0	1	9	2	5	3	8	0	0	2	1	2
<i>Alsophila aescularia</i> March Moth	1979	30	—	0	0	36	0	—	0	8	24	—	0	0	17
	1980	8	4	1	3	58	2	5	0	2	31	1	0	0	9
<i>Hepialus humuli</i> Ghost Swift	1979	0	—	0	1	3	0	—	2	2	0	—	0	0	1
	1980	0	1	1	1	2	0	0	1	0	0	4	0	0	0
<i>Hepialus lupulina</i> Common Swift	1979	0	—	12	1	10	3	—	19	13	28	—	27	13	8
	1980	0	77	22	11	16	0	1	18	5	8	15	28	5	9
<i>Agrotis ipsilon</i> Dark Sword Grass	1979	4	—	0	0	0	0	—	0	1	0	—	0	0	0
	1980	1	0	0	0	0	0	7	0	0	0	0	0	0	0
<i>Euproctis chryorrhoea</i> Brown-tail	1979	0	—	0	0	0	2	—	3	0	0	—	0	19	0
	1980	0	0	0	0	0	0	0	0	0	0	0	0	4	0
<i>Agrotis exclamationis</i> Heart and Dart	1979	43	—	41	2	20	45	—	5	2	13	—	7	51	11
	1980	37	95	108	29	42	64	10	34	29	37	66	27	56	26
<i>Plusia gamma</i> Silver Y	1979	5	—	0	5	11	29	—	25	16	0	—	25	10	12
	1980	22	7	8	3	10	11	19	20	22	5	6	24	21	9
<i>Laphygma exigua</i> Small Mottled Willow	1979	0	—	0	0	0	0	—	0	0	0	—	0	0	0
	1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nycterosea obstipata</i> The Gem	1979	0	—	0	0	0	0	—	0	0	0	—	0	0	0
	1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nomophila noctuella</i> Rush Veneer Pearl	1979	0	—	0	0	0	—	—	0	0	0	—	0	0	0
	1980	0	—	4	2	0	0	22	0	0	0	0	0	1	0
<i>Plutella maculipennis</i> Diamond-back Moth	1979	0	—	49	35	0	—	—	7	0	0	—	3	29	0
	1980	0	—	580	471	5	271	82	36	0	0	0	55	202	0
<i>Udea ferrugalis</i> Rusty Dot Pearl	1979	0	—	0	0	0	—	—	0	0	0	—	0	0	0
	1980	3	—	11	2	8	1	419	0	3	5	0	0	0	0

ROTHAMSTED INSECT SURVEY

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of moths of economic, or other importance for 1979 and 1980

	Windlesham	Wisley	Lordsfield	Alice Holt	Haslemere	Winchester	Lydd	Denny Lodge	Starcross	Yarner Wood	Rosewarne	Guernsey	Jersey	Year	Pest Species
	171	289	406	46	219	379	366	368	149	266	114	252	146	1979	<i>Abraxas grossulariata</i>
	0	0	—	0	0	15	6	0	7	3	4	9	8	1980	Magpie Moth
	0	0	21	0	0	14	6	1	7	3	4	19	2		
	0	2	—	0	1	0	1	0	0	1	16	11	4	1979	<i>Agrotis segetum</i>
	3	0	1	8	0	0	1	0	1	0	1	1	0	1980	Turnip Moth
	33	9	—	—	7	1	0	36	1	122	1	1	1	1979	<i>Erannis defoliaria</i>
	15	15	2	—	7	1	0	26	3	61	0	0	1	1980	Mottled Umber
	0	0	—	3	0	6	0	0	2	10	1	2	1	1979	<i>Phlogophora meticulosa</i>
	0	2	1	0	1	0	3	0	1	14	2	0	3	1980	Angle Shades
	5	7	—	23	5	4	0	3	1	39	1	0	5	1979	<i>Alsophila aescularia</i>
	4	6	21	—	6	6	1	2	4	33	3	0	6	1980	March Moth
	1	1	—	0	0	1	0	0	0	0	1	0	0	1979	<i>Hepialus humuli</i>
	0	0	1	0	0	0	0	0	0	0	0	0	0	1980	Ghost Swift
	8	0	—	5	1	14	64	6	3	0	1	2	0	1979	<i>Hepialus lupulina</i>
	23	1	14	7	0	0	21	3	0	0	2	2	0	1980	Common Swift
	0	0	—	0	0	0	0	0	0	7	2	2	0	1979	<i>Agrotis ipsilon</i>
	0	0	0	0	0	0	0	1	0	2	3	0	1	1980	Dark Sword Grass
	0	0	—	0	0	0	54	0	0	0	0	2	0	1979	<i>Euproctis chrysorrhoea</i>
	0	0	0	0	0	0	49	0	0	0	0	5	1	1980	Brown-tail
	16	23	—	26	12	49	41	11	13	12	77	9	34	1979	<i>Agrotis exclamationis</i>
	54	88	59	68	49	35	52	24	32	36	40	23	36	1980	Heart and Dart
	17	15	—	11	19	10	0	4	1	41	22	13	12	1979	<i>Plusia gamma</i>
	35	12	5	3	10	18	4	2	12	62	28	2	16	1980	Silver Y
	0	0	—	0	0	0	0	0	0	0	0	0	0	1979	<i>Laphygma exigua</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	1980	Small Mottled Willow
	0	0	—	0	0	0	0	0	0	0	0	1	0	1979	<i>Nycterosea obstipata</i>
	0	0	0	0	0	0	0	1	0	0	4	0	0	1980	The Gem
	0	0	—	3	1	0	0	—	1	0	12	0	13	1979	<i>Nomophila noctuella</i>
	0	1	4	3	2	0	0	—	2	—	75	11	12	1980	Rush Veneer Pearl
	1	25	—	3	1	0	50	—	6	0	—	27	12	1979	<i>Plutella maculipennis</i>
	12	206	50	19	16	0	0	—	99	—	2010	203	54	1980	Diamond-back Moth
	0	0	—	0	1	0	0	—	1	0	0	0	2	1979	<i>Udea ferrugalis</i>
	0	0	35	9	1	0	0	—	52	—	434	49	56	1980	Rusty Dot Pearl