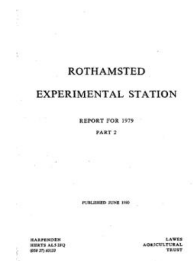


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ROTHAMSTED  
RESEARCH

# Rothamsted Experimental Station Report for 1979 Part 2



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## Rothamsted Insect Survey Eleventh Annual Summary

**L. R. Taylor and R. A. French**

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## Rothamsted Insect Survey Eleventh Annual Summary

L. R. TAYLOR and R. A. FRENCH

### Suction traps 1979

Daily samples were collected from 17 April to 4 November 1979 and the *Aphid Bulletins* were issued weekly from 7 May (*Bulletin* No. 1) to 4 November (*Bulletin* No. 26). The 33 aphid taxa listed in Table 1 (a–g) are those in the *Aphid Bulletin*.

In 1979 a new trap at Littlehampton, Sussex replaced North Farm, Pulborough, Sussex on the *Aphid Bulletins*. A trap was also operating at Belfast, N. Ireland and these results appear in Table 1 (a–g).

The trap at Rainham continued to operate throughout the year, but due to pressure of work, the results did not appear on the *Bulletins* between 2 July and 9 September 1979. In addition traps were operating at Stirling and Pathhead in Scotland and North Farm, Sussex. Suction traps sampling at 5 ft (1.5 m) were operating at Dundee, East Craigs, Ingraston, Broom's Barn, Rothamsted Tower and Littlehampton; records for these do not appear in *Bulletins* nor in Table 1.

Catches from Belfast, Aberystwyth, Broom's Barn and Holland were identified by Dr. A. C. Bell, Department of Agriculture, Belfast, N. Ireland; Mr. J. A'Brook of the Welsh Plant Breeding Station; G. D. Heathcote of Broom's Barn Experimental Station and Dr. A. van Harten of Wageningen, respectively. The catches from East Craigs, Pathhead, Stirling and Ingraston were identified by Mrs. L. A. D. Turl and Dr. D. A. Cooper of the Department of Agriculture and Fisheries for Scotland, 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, except for Holland, where samples were 12–19 days previously. 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 (\* see details below) between 20 June and 24 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–g) are corrected to full volume samples.

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

### Light traps

Table 2 (a–f) gives the annual catches during 1977 and 1978 of the same pest, or migratory, Lepidoptera as in previous years. Eighty-four sites completed the 364 day sample for 1978.

The sites on 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 0; dashes indicate no record.

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

\* Sample volumes were halved at Silwood Park from 20–26 June, Hereford 20 June–3 September, Rainham 20 June–13 September, Rothamsted Tower 20 June–17 September, Long Ashton and Writtle 20 June–18 September, Wye 20 June–19 September and Shardlow 20 June–24 September.

ROTHAMSTED REPORT FOR 1979, PART 2

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

Sites												
Species	Elgin	Dundee	Edinburgh	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Shardlow	Aberystwyth	Broom's Barn	Hereford
<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>									30		11	19
<i>Dysaphis plantaginea</i>												
<i>Elatobium abietinum</i>										2		1
<i>Eriosoma ulmi</i>												1
<i>Hyalopterus pruni</i>												1
<i>Hyperomyzus lactucae</i>												
<i>Macrosiphum euphorbiae</i>												
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>												2
<i>Metopolophium festucae</i>										1		
<i>Myzus ascalonicus</i>												
<i>Myzus certus</i>												
<i>Myzus ornatus</i>												
<i>Myzus persicae</i> grp.												
<i>Nasonovia ribisnigri</i>												1
<i>Pemphigus</i> spp.												
<i>Pentatrachopus fragaefolii</i>												
<i>Phorodon humuli</i>												
<i>Phyllaphis fagi</i>												
<i>Rhopalosiphum insertum</i>												5
<i>Rhopalosiphum maidis</i>												
<i>Rhopalosiphum padi</i>										4		
<i>Sitobion avenae</i>										3		
<i>Sitobion fragariae</i>												
First aphid caught									May 15	April 17	May 15	May 14

Silwood 8–14 Jan., 1 *M. ornatus*, 9–15 April, 1 *M. ornatus*  
 Aberystwyth 17 April, 1 *S. fragariae*  
 18 April, 1 *M. persicae*  
 21 April, 1 *R. padi*

ROTHAMSTED INSECT SURVEY

1(a)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1979  
23 April to 20 May 1979

Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	Littlehampton	Starcross	Rosewarne	Sites	Species
					2			1				<i>Acyrtosiphon pisum</i>
	1											<i>Amphorophora rubi</i>
	1											<i>Aphis fabae</i> grp.
	2				4							<i>Aphis</i> spp.
13	5	65	31	19			33		9			<i>Aulacorthum solani</i>
												<i>Brachycaudus helichrysi</i>
												<i>Brevicoryne brassicae</i>
												<i>Cavariella aegopodii</i>
												<i>Cinara</i> spp.
												<i>Drepanosiphum platanoidis</i>
1		2		1			2	2	1	5		<i>Dysaphis plantaginea</i>
												<i>Elatobium abietinum</i>
												<i>Eriosoma ulmi</i>
												<i>Hyalopterus pruni</i>
		2										<i>Hyperomyzus lactucae</i>
												<i>Macrosiphum euphorbiae</i>
1	2	5			2	1						<i>Megoura viciae</i>
		2					2					<i>Metopolophium dirhodum</i>
1	3	3	1	3				1	1			<i>Metopolophium festucae</i>
										4		<i>Myzus ascalonicus</i>
												<i>Myzus certus</i>
												<i>Myzus ornatus</i>
	1	1										<i>Myzus persicae</i> grp.
												<i>Nasonovia ribisnigri</i>
												<i>Pemphigus</i> spp.
												<i>Pentatrachopus fragaefolii</i>
	1			1								<i>Phorodon humuli</i>
	2	5			3							<i>Phyllaphis fagi</i>
	3			1								<i>Rhopalosiphum insertum</i>
				1	1	1				1		<i>Rhopalosiphum maidis</i>
		1										<i>Rhopalosiphum padi</i>
												<i>Sitobion avenae</i>
												<i>Sitobion fragariae</i>
May 13	May 8	May 6	May 12	Jan 9-14	May 14	May 12+13	May 15		May 18	May 12		First aphid caught

ROTHAMSTED REPORT FOR 1979, PART 2

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

Sites												
Species	Elgin	Dundee	Edinburgh	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Shardlow	Aberystwyth	Broom's Barn	Hereford
<i>Acyrtosiphon pisum</i>									4		7	
<i>Amphorophora rubi</i>									2			
<i>Aphis fabae</i> grp.									39		14	35
<i>Aphis</i> spp.			1				1	1	13	4		19
<i>Aulacorthum solani</i>						2						
<i>Brachycaudus helichrysi</i>				1		15	1	12	120	24	29	478
<i>Brevicoryne brassicae</i>												
<i>Cavariella aegopodii</i>		1				6	11	31	555	19	148	594
<i>Cinara</i> spp.												
<i>Drepanosiphum platanoidis</i>	180	115	493	263	70	275	753	304	1242	244	422	788
<i>Dysaphis plantaginea</i>											6	
<i>Elatobium abietinum</i>	26	5	4	69	2	108	2	3	2	995	7	17
<i>Eriosoma ulmi</i>									4		5	18
<i>Hyalopterus pruni</i>							1				3	
<i>Hyperomyzus lactucae</i>			2	2		8		6	18	4	3	21
<i>Macrosiphum euphorbiae</i>					1	13						
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>						1		1	4	3	2	
<i>Metopolophium festucae</i>		1				4					2	
<i>Myzus ascalonicus</i>	1		11		1	16	1	6	11	4	6	2
<i>Myzus certus</i>										1		
<i>Myzus ornatus</i>			1									
<i>Myzus persicae</i> grp.								2				
<i>Nasonovia ribisnigri</i>						3		1			1	7
<i>Pemphigus</i> spp.									2			
<i>Pentatrichopus fragaefolii</i>												
<i>Phorodon humuli</i>									51	7	17	504
<i>Phyllaphis fagi</i>	3	1	1	1		6	5	1	5		3	
<i>Rhopalosiphum insertum</i>	3	14	13	56	106	13	64	160	1594	30	11	5543
<i>Rhopalosiphum maidis</i>						110						
<i>Rhopalosiphum padi</i>			27			508		4	16	208	54	50
<i>Sitobion avenae</i>		1										
<i>Sitobion fragariae</i>				2				2	30	2	10	28
First aphid caught	May 30	May 25	May 30	May 30	May 30	May 26	May 27	May 24				

ROTHAMSTED INSECT SURVEY

1(b)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1979  
21 May to 17 June 1979

											Sites	Species
Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	Littlehampton	Starcross	Rosewarne		
2	2	4	2	1	9	1	1	1	1			<i>Acyrtosiphon pisum</i>
2	3	14	16	26	11	6	25	39	10	1		<i>Amphorophora rubi</i>
4	6	66	20	14			13	20	7	2		<i>Aphis fabae</i> grp.
		1	1			1						<i>Aphis</i> spp.
78	393	592	277	185			70	253	71	27		<i>Aulacorthum solani</i>
												<i>Brachycaudus helichrysi</i>
												<i>Brevicoryne brassicae</i>
379	574	764	265	612	515	156	305	374	54	6		<i>Cavariella aegopodii</i>
	2	1	1	1			1	1				<i>Cinara</i> spp.
80	60	64	654	522			47	48	106	2		<i>Drepanosiphum platanoidis</i>
		2		1		1						<i>Dysaphis plantaginea</i>
3	4	1	11	34			23	17	20	19		<i>Elatobium abietinum</i>
2		70	1	12			15	5				<i>Eriosoma ulmi</i>
1		33		2	3		6					<i>Hyalopterus pruni</i>
6	4	9	9	39		5	6	11	2	1		<i>Hyperomyzus lactucae</i>
		5	2	3			2	1				<i>Macrosiphum euphorbiae</i>
							1					<i>Megoura viciae</i>
	1	7	2	48	1		2	2				<i>Metopolophium dirhodum</i>
	1	3	4	1				8	5	4		<i>Metopolophium festucae</i>
4	7	14	8	10			5	9	5	2		<i>Myzus ascalonicus</i>
										1		<i>Myzus certus</i>
								1				<i>Myzus ornatus</i>
3	3	3	8	2	1	4	3	5	3			<i>Myzus persicae</i> grp.
							2					<i>Nasonovia ribisnigri</i>
												<i>Pemphigus</i> spp.
49	88	218	18	118	4		108	89	1	1		<i>Pentatrachopus fragaefolii</i>
3	7	4	1	54			3		1			<i>Phorodon humuli</i>
69	39	117	483	80	67	357	74	315	80	40		<i>Phyllaphis fagi</i>
2	1	5			2	21	3			6		<i>Rhopalosiphum insertum</i>
5		9	2	3	18	80	3	5	2	3		<i>Rhopalosiphum maidis</i>
		3	2				1			1		<i>Rhopalosiphum padi</i>
4	11	32	19	48		1	17	35	6			<i>Sitobion avenae</i>
												<i>Sitobion fragariae</i>

First aphid caught

ROTHAMSTED REPORT FOR 1979, PART 2

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

Sites												
Species	Elgin	Dundee	Edinburgh	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Shardlow	Aberystwyth	Broom's Barn	Hereford
<i>Acyrtosiphon pisum</i>	20	1	2	10	4	7	9	5	100	1	96	52
<i>Amphorophora rubi</i>	1			1					4		7	8
<i>Aphis fabae</i> grp.					1	3		1	78	4	82	142
<i>Aphis</i> spp.					9	1	4	1	230	8	81	44
<i>Aulacorthum solani</i>								1		2		
<i>Brachycaudus helichrysi</i>	1	6	4	1		17	5	37	316	31	108	1424
<i>Brevicoryne brassicae</i>											18	
<i>Cavariella aegopodii</i>	4	25	13	8	26	36	62	255	2018	6	158	784
<i>Cinara</i> spp.	2	6	2	1	5	1	7	1	6	3	8	4
<i>Drepanosiphum platanoidis</i>	45	50	29	30	65	24	64	134	224	34	51	128
<i>Dysaphis plantaginea</i>										11	4	2
<i>Elatobium abietinum</i>	8		1	12	1	12				61		
<i>Eriosoma ulmi</i>	27	202	8	3	22	1	64	43	208	2	170	352
<i>Hyalopterus pruni</i>		4			3	1	16	18	243	3	161	148
<i>Hyperomyzus lactucae</i>		1	4	3	5	6	5	11	42	4	15	70
<i>Macrosiphum euphorbiae</i>			3	1		5	1	1	20	3	3	18
<i>Megoura viciae</i>	1		1			6					1	
<i>Metopolophium dirhodum</i>		3	13	6	21	10	28	110	3026	356	3801	3580
<i>Metopolophium festucae</i>			2	1	1	7	1	3	8	2	41	10
<i>Myzus ascalonicus</i>	1		6		1	4	1				6	
<i>Myzus certus</i>						1						
<i>Myzus ornatus</i>												
<i>Myzus persicae</i> grp.						2			2		2	
<i>Nasonovia ribisnigri</i>			2		1	3		5	4	1	8	
<i>Pemphigus</i> spp.		2			6	1	1	9	154	3	65	202
<i>Pentatrichopus fragaefolii</i>												
<i>Phorodon humuli</i>		1			1	2	8		556	3	72	1626
<i>Phyllaphis fagi</i>	16	10	7	2	9	9	12	2	22	2	15	6
<i>Rhopalosiphum insertum</i>	2	38	40	45	296	104	94	292	1182	32	47	978
<i>Rhopalosiphum maidis</i>	2	85		2	37	30	47	68	66	87	28	54
<i>Rhopalosiphum padi</i>		6	11		4	306	16		56	30	381	62
<i>Sitobion avenae</i>		2				1	1	3	6		34	20
<i>Sitobion fragariae</i>	1	1	1	1	1		2	6	54	2	70	64

ROTHAMSTED INSECT SURVEY

1(c)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1979  
18 June to 15 July 1979

	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	Littlehampton	Starcross	Rosewarne	Sites	Species
	70	262	176	14	47	52	9	422	74	5			<i>Acyrtosiphon pisum</i>
	2	4				1		3	2				<i>Amphorophora rubi</i>
	88	144	315	67	117	133	38	308	142	18	1		<i>Aphis fabae</i> grp.
	77	88	645	160	223			267	105	20	1		<i>Aphis</i> spp.
			4							2			<i>Aulacorthum solani</i>
	85	119	217	377	162	9	2	120	167	31	72		<i>Brachycaudus helichrysi</i>
		4					2						<i>Brevicoryne brassicae</i>
	325	134	484	495	421	413	149	273	135	15	4		<i>Cavariella aegopodii</i>
	9	2	8	6	15			18	3	7			<i>Cinara</i> spp.
	30	21	8	57	16			26	55	29	18		<i>Drepanosiphum platanoidis</i>
	18	6	48	6	4			6	2	2			<i>Dysaphis plantaginea</i>
	2									1			<i>Elatobium abietinum</i>
	29	58	178	15	28			174	29		2		<i>Eriosoma ulmi</i>
	130	279	1790	292	402	160	35	2323	337	125	11		<i>Hyalopterus pruni</i>
	8	34	16	20	47	18	2	178	16	4			<i>Hyperomyzus lactucae</i>
	4	4	50	16	11	1		70	25	5	6		<i>Macrosiphum euphorbiae</i>
			14	4	1	2		33	1				<i>Megoura viciae</i>
	1674	3752	9679	1220	3077	3265	1036	14324	6578	562	89		<i>Metopolophium dirhodum</i>
	10	26	18	4	5	2		38	37	20	12		<i>Metopolophium festucae</i>
		2	2	2	2					2	4		<i>Myzus ascalonicus</i>
		2		2		1	3						<i>Myzus certus</i>
			4						1	1			<i>Myzus ornatus</i>
		8	22	4	3	11	1	38	18	1			<i>Myzus persicae</i> grp.
	4	14	10	8	7	5		12	6	6	2		<i>Nasonovia ribisnigri</i>
	54	246	374	52	287			106	92	28	1		<i>Pemphigus</i> spp.
													<i>Pentatrachopus fragaefolii</i>
	176	246	566	415	491	53	21	410	349	43	1		<i>Phorodon humuli</i>
	16	14	19	8	124			18	3	11			<i>Phyllaphis fagi</i>
	136	90	181	175	197	27	40	78	135	35	11		<i>Rhopalosiphum insertum</i>
	82	96	96	34	40	124	121	540	71	70	169		<i>Rhopalosiphum maidis</i>
	42	100	290	10	164	577	450	394	71	124	6		<i>Rhopalosiphum padi</i>
	18	48	200	26	62	10	20	500	211	93	20		<i>Sitobion avenae</i>
	38	53	110	34	100	11	3	243	303	41	5		<i>Sitobion fragariae</i>



ROTHAMSTED REPORT FOR 1979, PART 2

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

Species	Elgin	Dundee	Edinburgh	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Shardlow	Aberystwyth	Broom's Barn	Hereford
<i>Acyrtosiphon pisum</i>	34	172	22	7	54	6	715	159	270	28	2095	300
<i>Amphorophora rubi</i>	2	8							8			2
<i>Aphis fabae</i> grp.	1	2	6	5	14	34	1512	226	2146	62	8587	574
<i>Aphis</i> spp.	3	6	3	5	7	58	313	104	2426	11	3000	414
<i>Aulacorthum solani</i>			2									
<i>Brachycaudus helichrysi</i>	14	8	20	2	5	5	85	230	576	57	670	94
<i>Brevicoryne brassicae</i>											321	6
<i>Cavariella aegopodii</i>	15	64	58	2	57	22	329	163	344	2	315	34
<i>Cinara</i> spp.	1	14	10	67	16	1	8	4	32	18	1	14
<i>Drepanosiphum platanoidis</i>	13	15	10	16	10	3	37	187	178	9	65	18
<i>Dysaphis plantaginea</i>										13		2
<i>Elatobium abietinum</i>										3		
<i>Eriosoma ulmi</i>	3	39	1	1	7	3	18		2		52	10
<i>Hyalopterus pruni</i>	2	58	5		8	5	236	139	1410	29	3236	244
<i>Hyperomyzus lactucae</i>	2	10	8	1	9	6	33	8	142	9	338	48
<i>Macrosiphum euphorbiae</i>	4	19	22	6	6	36	6	42	124	7	88	76
<i>Megoura viciae</i>		1		3	3	7		2		1		
<i>Metopolophium dirhodum</i>	109	1255	3017	668	1584	709	14796	2590	51726	355	183949	4978
<i>Metopolophium festucae</i>		2	6	3	4	16	85	27	16	10	136	16
<i>Myzus ascalonicus</i>			1							3		
<i>Myzus certus</i>					1		2	5	4	3		
<i>Myzus ornatus</i>												
<i>Myzus persicae</i> grp.		14	6	1	1	1	46	42	232	2	432	18
<i>Nasonovia ribisnigri</i>	1		1			2	23	2	8		83	28
<i>Pemphigus</i> spp.		3	4	1	8	2	4	61	216	3	142	128
<i>Pentatrichopus fragaefolii</i>												
<i>Phorodon humuli</i>		1			1		30	5	272		426	56
<i>Phyllaphis fagi</i>		4		1				2			4	
<i>Rhopalosiphum insertum</i>	21	164	368	108	2406	1095	2369	2849	2048	529	795	784
<i>Rhopalosiphum maidis</i>	20	60	6	2	25	34	262	55	92	17	921	20
<i>Rhopalosiphum padi</i>	13	324	457	36	261	66	2516	117	810	132	16263	332
<i>Sitobion avenae</i>	27	128	364	14	8	79	360	103	168	160	2102	76
<i>Sitobion fragariae</i>	1	5	38	7	24	1	357	93	1072	12	2007	438

ROTHAMSTED INSECT SURVEY

1(d)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1979  
16 July to 12 August 1979

Sites											Species
Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	Littlehampton	Starcross	Rosewarne	
240	392	184	86	96	420	Records not available	678	294	167	6	<i>Acyrtosiphon pisum</i>
	4			18							<i>Amphorophora rubi</i>
698	1354	894	248	348	747		418	305	138	4	<i>Aphis fabae</i> grp.
1296	2570	2370	104	751			1934	285	86	15	<i>Aphis</i> spp.
				4				5	1	2	<i>Aulacorthum solani</i>
144	112	272	38	78	31		166	133	36	21	<i>Brachycaudus helichrysi</i>
	8	26		2	2			22	1	1	<i>Brevicoryne brassicae</i>
116	50	108	4	19	108		52	49	12	3	<i>Cavariella aegopodii</i>
		20	4	20				5	2	1	<i>Cinara</i> spp.
32	10	18	12	22			24	19	24	5	<i>Drepanosiphum platanoidis</i>
		4	2	1				3			<i>Dysaphis plantaginea</i>
	2	38	6	6			18	2			<i>Elatobium abietinum</i>
1562	2474	7346	348	1112	511		2834	725	127	54	<i>Eriosoma ulmi</i>
150	70	308	14	95	47		170	98	38	8	<i>Hyalopterus pruni</i>
50	16	136	6	46	8		78	108	25	18	<i>Hyperomyzus lactucae</i>
	8	22	2				18				<i>Macrosiphum euphorbiae</i>
16692	17326	22810	360	4246	13071		20116	6017	1423	322	<i>Megoura viciae</i>
52		18	10	3	5		112	14	14	24	<i>Metopolophium dirhodum</i>
	4				1						<i>Metopolophium festucae</i>
					17		6	2	1	2	<i>Myzus ascalonicus</i>
4				2				3		1	<i>Myzus certus</i>
108	102	74	8	22	1920		260	129	16	11	<i>Myzus ornatus</i>
24	6	8	2	21	8		8	8		7	<i>Myzus persicae</i> grp.
112	108	208	22	114			66	142	17	2	<i>Nasonovia ribisnigri</i>
											<i>Pemphigus</i> spp.
228	190	948	60	196	100		482	188	19		<i>Pentatrachopus fragaefolii</i>
	8	2		9			4		3		<i>Phorodon humuli</i>
494	238	776	152	533	343		146	188	157	67	<i>Phyllaphis fagi</i>
96	152	374	4	34	301		254	81	36	46	<i>Rhopalosiphum insertum</i>
2054	3474	3980	20	559	6723		2396	1549	287	37	<i>Rhopalosiphum maidis</i>
344	618	1442	90	373	150		1300	505	417	180	<i>Rhopalosiphum padi</i>
632	320	462	36	356	137		374	253	280	43	<i>Sitobion avenae</i>
											<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1979, PART 2

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

Species	Elgin	Dundee	Edinburgh	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Shardlow	Aberystwyth	Broom's Barn	Hereford
<i>Acyrtosiphon pisum</i>	15	37	11	9	19	27	11	1	12	15		99
<i>Amphorophora rubi</i>	7	16	2									
<i>Aphis fabae</i> grp.	20	29	35	29	106	21	340	62	138	13	10	56
<i>Aphis</i> spp.	9	16	6	5	21	28	78	20	146	4	8	21
<i>Aulacorthum solani</i>			2			1						
<i>Brachycaudus helichrysi</i>	7	18	21	2	9	6	3	21	22	13	12	17
<i>Brevicoryne brassicae</i>											11	
<i>Cavariella aegopodii</i>	44	37	5	3	6	19	47	8	12		3	2
<i>Cinara</i> spp.		6	8	2	3	3	1		4	2		
<i>Drepanosiphum platanoidis</i>	44	72	34	18	109	34	107	410	90	23	127	9
<i>Dysaphis plantaginea</i>										6	1	
<i>Elatobium abietinum</i>												
<i>Eriosoma ulmi</i>										1	9	
<i>Hyalopterus pruni</i>	2	87	4	2	7	13	42	28	86	2	52	16
<i>Hyperomyzus lactucae</i>	2	2	2		3		1					
<i>Macrosiphum euphorbiae</i>	6	71	34	7	4	7	1	2		2	1	8
<i>Megoura viciae</i>						7						
<i>Metopolophium dirhodum</i>	105	372	533	55	693	7	175	3	34	15	1	24
<i>Metopolophium festucae</i>	3		11	1	3					1		
<i>Myzus ascalonicus</i>												
<i>Myzus certus</i>		1	1						2	1		
<i>Myzus ornatus</i>												
<i>Myzus persicae</i> grp.	2	30	3	3	2	1	7	6	6		1	1
<i>Nasonovia ribisnigri</i>	1	1							2			
<i>Pemphigus</i> spp.	13	9	5	14	10		6	36	56	28	21	31
<i>Pentatrachopus fragaefolii</i>							1		2			
<i>Phorodon humuli</i>		2	2		10	1	1				2	93
<i>Phyllaphis fagi</i>					2			1				
<i>Rhopalosiphum insertum</i>	137	221	360	147	928	245	347	274	102	239	11	81
<i>Rhopalosiphum maidis</i>	7	8	3		7		1	1		1	4	3
<i>Rhopalosiphum padi</i>	1135	2921	1281	593	597	37	854	351	250	134	190	283
<i>Sitobion avenae</i>	119	221	398	10	31	5	20	4	16	22	5	6
<i>Sitobion fragariae</i>	7	22	6	4	33	1	13	6	2	4		12

ROTHAMSTED INSECT SURVEY

1(e)  
of aphids of economic, or other, interest reported in the Weekly Bulletin 1979  
13 August to 9 September 1979

	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	Littlehampton	Starcross	Rosewarne	Sites	Species
	2		2	12	1			2	4	15			<i>Acyrtosiphon pisum</i>
	4	4	2	8	7	10			6	16			<i>Amphorophora rubi</i>
	14	2	20	6	9			2	8	9	4		<i>Aphis fabae</i> grp.
													<i>Aphis</i> spp.
	106	2		2	10	1		8	16	3	2		<i>Aulacorthum solani</i>
		6				1			2	4			<i>Brachycaudus helichrysi</i>
	2					4			2		1		<i>Brevicoryne brassicae</i>
					1								<i>Cavariella aegopodii</i>
	68	22	2	30	184	1		22	23	2	2		<i>Cinara</i> spp.
					1								<i>Drepanosiphum platanoidis</i>
													<i>Dysaphis plantaginea</i>
													<i>Elatobium abietinum</i>
	52	2	2					2					<i>Eriosoma ulmi</i>
	2	22	58	8	27	319		122	34	18	2		<i>Hyalopterus pruni</i>
	2		2	2	1	1			1	2			<i>Hyperomyzus lactucae</i>
													<i>Macrosiphum euphorbiae</i>
		2						2					<i>Megoura viciae</i>
		2	4	2	3	8			1	2			<i>Metopolophium dirhodum</i>
										2			<i>Metopolophium festucae</i>
													<i>Myzus ascalonicus</i>
						2							<i>Myzus certus</i>
						156							<i>Myzus ornatus</i>
				2	2				2	1			<i>Myzus persicae</i> grp.
	26	6		2	1								<i>Nasonovia ribisnigri</i>
				12	86			28	25	14	8		<i>Pemphigus</i> spp.
	2				3			24		1			<i>Pentatrachopus fragaefolii</i>
													<i>Phorodon humuli</i>
	52	16	26	20	101	72		38	89	82	39		<i>Phyllaphis fagi</i>
	6		2			5		4	4	1	1		<i>Rhopalosiphum insertum</i>
	128	122	50	176	223	581		278	287	124	35		<i>Rhopalosiphum maidis</i>
	10	10	4	2	14	8		20	15	11	19		<i>Rhopalosiphum padi</i>
	2		2	6	2				2	1	1		<i>Sitobion avenae</i>
													<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1979, PART:

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

Species	Elgin	Dundee	Edinburgh	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Shardlow	Aberystwyth	Broom's Barn	Hereford
<i>Acyrtosiphon pisum</i>										3		
<i>Amphorophora rubi</i>		10										
<i>Aphis fabae</i> grp.	14	16	9	5	36	6		3		4	6	8
<i>Aphis</i> spp.	3	51	2		15	4		7		4	1	5
<i>Aulacorthum solani</i>												
<i>Brachycaudus helichrysi</i>	33	14	12	1	24	15	20	15	46	22	71	41
<i>Brevicoryne brassicae</i>											1	
<i>Cavariella aegopodii</i>	161	36	10	1	2	2		3		1	1	3
<i>Cinara</i> spp.	9	3	1		6	5	3	2				
<i>Drepanosiphum platanoidis</i>	41	92	66		41	28	73	104	150	33	8	13
<i>Dysaphis plantaginea</i>				1				1		22	18	1
<i>Elatobium abietinum</i>												
<i>Eriosoma ulmi</i>	2	2	3			2	12	1	2	4	5	9
<i>Hyalopterus pruni</i>		136	1		1	6	2	6	10	2	6	1
<i>Hyperomyzus lactucae</i>	4	4					1			4	2	2
<i>Macrosiphum euphorbiae</i>	10	44	3	1	2	1		1		2	3	5
<i>Megoura viciae</i>										1		
<i>Metopolophium dirhodum</i>	69	37	4	5	9	5		4	2	5	2	2
<i>Metopolophium festucae</i>	4		2							3		
<i>Myzus ascalonicus</i>												
<i>Myzus certus</i>												
<i>Myzus ornatus</i>			1									
<i>Myzus persicae</i> grp.		23	1	1	1		1		2	7	2	5
<i>Nasonovia ribisnigri</i>	5		2					1		6		3
<i>Pemphigus</i> spp.	185	49	41	18	31	16	16	339	202	53	847	96
<i>Pentatrichopus fragaefolii</i>												
<i>Phorodon humuli</i>									12		1	927
<i>Phyllaphis fagi</i>			3					1				
<i>Rhopalosiphum insertum</i>	1821	971	1232	163	1184	2386	557	3292	995	3024	26	458
<i>Rhopalosiphum maidis</i>				1		1	1				1	
<i>Rhopalosiphum padi</i>	8624	4931	4355	773	885	546	352	2568	2599	618	881	2887
<i>Sitobion avenae</i>	15	2	10	1	4		1	1		7		1
<i>Sitobion fragariae</i>	22	24		1				1	2	2	1	3

## ROTHAMSTED INSECT SURVEY

1(f)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1979  
10 September to 7 October 1979

										Sites	
Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	Littlehampton	Starcross	Rosewarne	
										Species	
1			1						2		<i>Acyrtosiphon pisum</i>
1	2		1	2	9		5	4			<i>Amphorophora rubi</i>
3	8	11	2	4			9	9	3		<i>Aphis fabae</i> grp.
									2	2	<i>Aphis</i> spp.
51	23	12	23	27	14		45	67	26	6	<i>Aulacorthum solani</i>
1	10	6		3			2	1	9		<i>Brachycaudus helichrysi</i>
		3			4		1	2	1		<i>Brevicoryne brassicae</i>
											<i>Cavariella aegopodii</i>
241	63	125	23	618			51	108	13	59	<i>Cinara</i> spp.
1		8	1	5	1		1	8		2	<i>Drepanosiphum platanoidis</i>
											<i>Dysaphis plantaginea</i>
2	3	2	1	2			2	1			<i>Elatobium abietinum</i>
2	7	6		6	239		14		4		<i>Eriosoma ulmi</i>
3		10	2	1	3		5	1	8		<i>Hyalopectus pruni</i>
				4	2			1			<i>Hyperomyzus lactucae</i>
	1	7	4	1	1		3	1	2		<i>Macrosiphum euphorbiae</i>
											<i>Megoura viciae</i>
1											<i>Metopolophium dirhodum</i>
				1							<i>Metopolophium festucae</i>
											<i>Myzus ascalonicus</i>
											<i>Myzus certus</i>
								1			<i>Myzus ornatus</i>
1	4	3	4		1		7	9	6	4	<i>Myzus persicae</i> grp.
2	2	1	2	1			2	4			<i>Nasonovia ribisnigri</i>
89	155	10492	144	84			75	85	76	1	<i>Pemphigus</i> spp.
											<i>Pentatrachopus fragaefolii</i>
	1	17		9	4		867	11			<i>Phorodon humuli</i>
											<i>Phyllaphis fagi</i>
112	72	87	180	235	1706		660	263	263	139	<i>Rhopalosiphum insertum</i>
		1			1					1	<i>Rhopalosiphum maidis</i>
752	806	1969	2401	1221	1124		2686	1234	1107	280	<i>Rhopalosiphum padi</i>
2	2		1	1	1		2	2			<i>Sitobion avenae</i>
1		1	2		1						<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1979, PART 2

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

Species	Elgin	Dundee	Edinburgh	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Shardlow	Aberystwyth	Broom's Barn	Hereford
<i>Acyrtosiphon pisum</i>					2							
<i>Amphorophora rubi</i>		30			4	1		2		1	10	
<i>Aphis fabae</i> grp.					18	1		2			3	3
<i>Aphis</i> spp.	2	28						2	2			
<i>Aulacorthum solani</i>			1	1								
<i>Brachycaudus helichrysi</i>	2	12		2	6	4	6		3	2	8	
<i>Brevicoryne brassicae</i>								1				
<i>Cavariella aegopodii</i>	3	28			13	3	2	4	1		6	
<i>Cinara</i> spp.	3											
<i>Drepanosiphum platanoidis</i>	4	85	40	3	23	20	51	108	262	30	38	16
<i>Dysaphis plantaginea</i>									6	12	4	
<i>Elatobium abietinum</i>												
<i>Eriosoma ulmi</i>		1			1				2	4	4	35
<i>Hyalopterus pruni</i>		16			2						5	
<i>Hyperomyzus lactucae</i>		14						2	6	4	4	6
<i>Macrosiphum euphorbiae</i>	2	19	1	1	3	1						2
<i>Megoura viciae</i>						1						
<i>Metopolophium dirhodum</i>	25	44		4	26	2		11	1	4	2	6
<i>Metopolophium festucae</i>						1				2		2
<i>Myzus ascalonicus</i>						1					1	1
<i>Myzus certus</i>		4										
<i>Myzus ornatus</i>										1		
<i>Myzus persicae</i> grp.	1	30	1		2	1	5	1	3	2	13	13
<i>Nasonovia ribisnigri</i>	1	1								20		3
<i>Pemphigus</i> spp.	53	69	9	28	53	25	31	228	311	4	235	102
<i>Pentatrichopus fragaefolii</i>												
<i>Phorodon humuli</i>												17
<i>Phyllaphis fagi</i>	1	8	5									
<i>Rhopalosiphum insertum</i>	804	1778	673	414	1602	1732	861	1830	1559	5267	142	844
<i>Rhopalosiphum maidis</i>						4					23	
<i>Rhopalosiphum padi</i>	1528	7480	1896	511	1614	844	500	2903	4116	1069	1043	2576
<i>Sitobion avenae</i>	1		1	1		1				5		3
<i>Sitobion fragariae</i>	26	16		5	11	1	1	6	2	9		5

## ROTHAMSTED INSECT SURVEY

1(g)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1979  
8 October 1979 to 4 November 1979

	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	Littlehampton	Starcross	Rosewarne	Sites	Species
			1										<i>Acyrtosiphon pisum</i>
		1	2		1	57		7	1				<i>Amphorophora rubi</i>
		4	12	2	4			15	13		1		<i>Aphis fabae</i> grp.
			2										<i>Aphis</i> spp.
7		6	24	6	4	5		12	4	2	1		<i>Aulacorthum solani</i>
		10	4	1	3			8	1	7	1		<i>Brachycaudus helichrysi</i>
		2	3	3	3	12		3					<i>Brevicoryne brassicae</i>
													<i>Cavariella aegopodii</i>
101		88	39	20	163			41	22	3	20		<i>Cinara</i> spp.
		2			10	3		4	19	4			<i>Drepanosiphum platanoidis</i>
									1				<i>Dysaphis plantaginea</i>
		5	3	5	4			9	4	1			<i>Elatobium abietinum</i>
			11			2			2				<i>Eriosoma ulmi</i>
2		8	15	11	2	9		7	3	7			<i>Hyalopterus pruni</i>
				2						3			<i>Hyperomyzus lactucae</i>
													<i>Macrosiphum euphorbiae</i>
		1	2	9	2			4	4	6			<i>Megoura viciae</i>
				1									<i>Metopolophium dirhodum</i>
			2						1				<i>Metopolophium festucae</i>
		1		1				1	1		1		<i>Myzus ascalonicus</i>
				1									<i>Myzus certus</i>
1		8	5	9	1	13		16	13	6	1		<i>Myzus ornatus</i>
		1	3	1	2	10		4		2			<i>Myzus persicae</i> grp.
62		123	1626	197	113			135	70	58	12		<i>Nasonovia ribisnigri</i>
													<i>Pemphigus</i> spp.
		1	3	1	1			5					<i>Pentatrachopus fragaefolii</i>
			1										<i>Phorodon humuli</i>
238		250	338	588	543	1319		1233	1062	740	516		<i>Phyllaphis fagi</i>
		3	2			5		3	5		1		<i>Rhopalosiphum insertum</i>
823		2212	3261	2860	1615	2084		3521	2367	4894	271		<i>Rhopalosiphum maidis</i>
2			5	1	2	2		4	4		1		<i>Rhopalosiphum padi</i>
1		1	4	8	8	3		7	8	16	3		<i>Sitobion avenae</i>
													<i>Sitobion fragariae</i>



ROTHAMSTED REPORT FOR 1979, PART 2

TABLE  
The Rothamsted Insect Survey—Light Traps: annual records

Pest Species	Year	Inverpolly	Harris	Newton, Elgin	Beinn Eighe	New Deer	Carbost, Skye	Fort Augustus	Rannoch	Dundee	Culzean Castle	Rowardennan	East Craigs	St. Abbs	Auchincruive
<i>Gortyna micacea</i> Rosy Rustic	1977	25	105	78	115	42	116	26	51	1	11	9	5	—	5
	1978	18	27	37	57	56	195	28	68	0	25	4	3	51	5
<i>Bupalus piniaria</i> Bordered White	1977	0	0	0	1	0	0	3	0	1	4	0	0	—	0
	1978	0	0	0	1	0	0	1	0	0	0	0	0	0	0
<i>Panolis flammea</i> Pine Beauty	1977	0	0	2	0	0	0	3	1	0	1	0	0	—	0
	1978	0	0	0	1	0	0	2	0	0	2	0	0	0	0
<i>Cerapteryx graminis</i> Antler Moth	1977	66	232	17	142	13	52	240	114	74	28	35	32	—	34
	1978	25	366	21	95	3	17	99	58	10	11	79	7	6	4
<i>Erannis aurantiaria</i> Scarce Umber	1977	18	0	72	2	0	19	80	1822	6	0	265	0	—	1
	1978	—	—	32	9	2	3	311	3107	13	0	738	0	26	0
<i>Operophtera fagata</i> Northern Winter Moth	1977	6	0	3	3	0	0	10	164	0	0	51	0	—	0
	1978	—	—	3	3	0	0	8	106	0	0	8	0	5	0
<i>Apamea sordens</i> Rustic Shoulder-knot	1977	0	0	1	0	2	0	1	0	1	0	0	14	—	2
	1978	0	0	0	0	1	0	0	0	0	0	0	9	15	1
<i>Gortyna flavago</i> Frosted Orange	1977	0	0	20	0	0	0	0	0	0	0	0	0	—	0
	1978	0	0	9	0	0	0	0	0	0	2	0	0	0	0
<i>Mamestra brassicae</i> Cabbage Moth	1977	0	0	2	0	1	0	2	0	18	0	0	3	—	0
	1978	0	0	0	0	0	0	0	0	12	0	0	7	0	0
<i>Noctua pronuba</i> Large Yellow Underwing	1977	4	5	32	0	471	0	3	0	11	23	2	1	—	17
	1978	12	3	31	2	114	2	1	0	8	37	4	7	5	11
<i>Diataraxia oleracea</i> Bright-line Brown-eye	1977	23	0	14	3	46	3	1	0	10	6	1	7	—	15
	1978	6	0	4	1	5	2	0	0	2	2	0	3	2	2
<i>Euxoa nigricans</i> Garden Dart	1977	0	0	3	0	0	0	0	0	18	0	0	4	—	0
	1978	0	0	0	0	0	0	2	0	8	0	0	3	3	1
<i>Apamea secalis</i> Common Rustic	1977	11	4	76	10	32	9	34	0	27	19	6	63	—	56
	1978	2	6	75	11	43	23	8	0	12	5	6	36	66	14
<i>Melanchnra persicariae</i> Dot Moth	1977	0	0	0	0	0	0	0	0	0	0	0	0	—	0
	1978	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Operophtera brumata</i> Winter Moth	1977	19	0	15	45	3	17	24	76	6	0	1079	1	—	0
	1978	—	—	11	10	0	9	11	26	5	7	179	1	114	0

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Kielder		Bedlington		Chester le Street		Middleton in Teesdale		Baldersby		Castletown, I.O.M.		Malham Tarn		Acomb		Blacktoft Sands		Spurn Head		Edale		Bangor		Gleadthorpe		Matlock		Year	Pest Species
296	303	39	263	315	306	45	363	330	131	365	35	257	279																
19	21	3	9	15	47	0	2	—	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	5	1977	<i>Gortyna micacea</i>	
23	20	11	2	61	10	0	1	71	21	0	1	1	2	1	1	1	1	1	1	1	1	1	1	1	44	2	1978	Rosy Rustic	
1	0	0	0	0	0	0	1	—	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1977	<i>Bupalus piniaria</i>
0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1978	Bordered White
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1977	<i>Panolis flammea</i>
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1978	Pine Beauty
20	3	0	54	6	5	23	0	—	64	111	1	2	2	1977	<i>Cerapteryx graminis</i>														
13	1	0	29	5	4	7	0	1	44	51	0	3	2	1978	Antler Moth														
28	0	—	4	1	0	10	0	—	0	6	0	3	0	1977	<i>Erannis aurantiaria</i>														
85	0	2	16	0	0	8	0	—	0	8	0	2	2	1978	Scarce Umber														
15	0	—	12	0	0	13	0	—	0	7	0	4	0	1977	<i>Operophtera fagata</i>														
52	0	0	17	0	0	2	0	—	0	5	0	0	0	1978	Northern Winter Moth														
1	7	5	0	2	5	1	3	—	5	4	1	0	3	1977	<i>Apamea sordens</i>														
0	5	3	0	8	6	1	0	16	3	0	2	0	4	1978	Rustic Shoulder-knot														
0	0	0	0	1	1	0	0	—	0	1	0	12	0	1977	<i>Gortyna flavago</i>														
0	0	0	0	1	1	0	0	8	0	0	0	9	0	1978	Frosted Orange														
1	8	9	6	3	3	0	1	—	1	1	4	0	7	1977	<i>Mamestra brassicae</i>														
1	21	16	0	3	3	0	8	15	5	1	11	1	9	1978	Cabbage Moth														
2	4	5	43	7	32	32	2	—	36	24	6	6	10	1977	<i>Noctua pronuba</i>														
2	5	23	23	11	21	9	9	4	39	6	9	6	49	1978	Large Yellow Underwing														
0	14	7	22	39	20	0	12	—	121	46	1	28	7	1977	<i>Diataraxia oleracea</i>														
0	5	3	1	14	12	0	4	53	57	8	3	70	4	1978	Bright-line Brown-eye														
4	4	2	0	0	0	0	0	—	2	0	0	2	0	1977	<i>Euxoa nigricans</i>														
0	5	11	0	2	0	0	0	0	0	0	0	1	0	1978	Garden Dart														
17	153	78	51	42	208	1	1	—	32	45	36	27	48	1977	<i>Apamea secalis</i>														
10	43	22	25	54	77	1	5	65	24	8	8	26	57	1978	Common Rustic														
0	0	0	0	0	0	0	0	—	1	0	0	0	0	1977	<i>Melanchra persicariae</i>														
0	0	0	0	0	0	0	2	1	0	0	0	0	0	1978	Dot Moth														
28	6	—	2	5	19	3	3	—	2	72	0	6	2	1977	<i>Operophtera brumata</i>														
47	1	2	8	4	13	0	2	—	0	79	0	5	4	1978	Winter Moth														

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Pest Species	Year	Gibraltar Point	Nantclwyd	Empingham	Wells next the Sea	Shardlow	Terrington	Preston Montford	Wolverhampton I	Methwold Fen	Market Harborough	Aberystwyth	Monks Wood	Monks Wood (Ewingswode)	Broom's Barn
		223	243	280	274	378	381	382	267	301	138	340	94	277	88
<i>Gortyna micacea</i>	1977	19	62	1	0	14	11	—	0	9	—	14	23	—	1
Rosy Rustic	1978	17	23	7	0	15	16	21	0	0	0	8	37	19	0
<i>Bupalus piniaria</i>	1977	0	0	0	0	0	0	—	0	0	—	0	0	—	0
Bordered White	1978	0	1	0	1	0	0	0	0	0	0	1	0	0	0
<i>Panolis flammea</i>	1977	0	0	0	0	0	0	—	0	0	—	0	0	—	0
Pine Beauty	1978	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Cerapteryx graminis</i>	1977	7	1	0	0	2	0	—	0	0	—	10	0	—	0
Antler Moth	1978	4	1	0	0	0	0	1	0	0	0	1	0	0	0
<i>Erannis aurantiaria</i>	1977	0	12	0	0	0	0	—	0	0	—	1	0	—	1
Scarce Umber	1978	0	11	0	0	2	0	12	0	0	0	1	0	23	2
<i>Operophtera fagata</i>	1977	0	0	0	0	0	0	—	0	0	—	9	0	—	0
Northern Winter Moth	1978	0	0	0	0	0	0	0	0	0	0	0	0	20	0
<i>Apamea sordens</i>	1977	1	3	0	0	0	1	—	0	0	—	0	0	—	1
Rustic Shoulder-knot	1978	1	2	2	0	1	9	0	0	1	0	0	1	0	0
<i>Gortyna flavago</i>	1977	0	0	0	0	0	1	—	0	3	—	2	0	—	0
Frosted Orange	1978	0	1	0	0	3	0	1	0	15	0	0	3	1	0
<i>Mamestra brassicae</i>	1977	0	0	4	1	3	6	—	0	38	—	0	1	—	2
Cabbage Moth	1978	0	0	11	4	3	11	1	0	27	1	0	0	0	4
<i>Noctua pronuba</i>	1977	5	2	42	5	1	3	—	1	4	—	13	10	—	2
Large Yellow Underwing	1978	8	8	91	5	9	1	7	1	7	6	8	11	24	5
<i>Diataraxia oleracea</i>	1977	13	0	3	4	5	8	—	0	9	—	2	2	—	2
Bright-line Brown-eye	1978	5	0	9	2	11	22	6	3	9	1	4	0	1	5
<i>Euxoa nigricans</i>	1977	0	0	2	0	1	3	—	1	0	—	0	4	—	3
Garden Dart	1978	0	0	38	0	0	0	2	10	0	0	0	0	4	1
<i>Apamea secalis</i>	1977	28	26	46	14	8	14	—	0	12	—	113	29	—	26
Common Rustic	1978	13	32	49	6	24	47	123	2	11	4	37	6	3	10
<i>Melanchna persicariae</i>	1977	0	0	3	0	0	1	—	0	10	—	1	0	—	0
Dot Moth	1978	0	0	5	0	2	11	2	0	9	0	0	0	0	0
<i>Operophtera brumata</i>	1977	0	46	10	2	5	2	—	0	0	—	42	5	—	1
Winter Moth	1978	1	29	21	6	1	1	11	0	0	6	26	0	147	1

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	Tregaron	Llysdinam	Wellesbourne	Waresley	Luddington	Cockayne Hatley	Pershore	Shuttleworth	Rhandirmwyn	Bradwell Abbey	Tarleton	Woodstock	Rothamsted (Barnfield)	Rothamsted (Allotments)	Year	Pest Species
	331	111	359	360	355	336	195	283	346	354	371	182	1	34	1977	<i>Gortyna micacea</i>
	41	14	9	19	4	13	12	11	49	—	—	8	10	3	1978	Rosy Rustic
	27	7	6	16	1	23	18	4	24	33	6	8	12	58		
	0	0	0	0	0	0	0	0	0	—	—	0	0	0	1977	<i>Bupalus piniaria</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1978	Bordered White
	0	3	0	0	0	0	0	0	1	—	—	0	0	0	1977	<i>Panolis flammea</i>
	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1978	Pine Beauty
	112	7	0	0	0	0	0	0	24	—	—	0	0	0	1977	<i>Cerapteryx graminis</i>
	49	0	0	0	0	0	0	0	5	0	0	2	0	0	1978	Antler Moth
	26	27	0	0	1	0	4	0	76	—	—	4	0	0	1977	<i>Erannis aurantiaria</i>
	55	58	0	0	0	1	2	1	128	0	0	5	0	0	1978	Scarce Umber
	36	0	0	1	0	1	0	0	4	—	—	0	0	0	1977	<i>Operophtera fagata</i>
	65	0	0	1	0	0	0	1	4	0	0	0	0	0	1978	Northern Winter Moth
	0	0	0	1	0	0	0	0	4	—	—	0	3	0	1977	<i>Apamea sordens</i>
	0	0	0	7	2	2	1	4	1	13	0	0	2	3	1978	Rustic Shoulder-knot
	6	0	0	5	0	1	1	0	4	—	—	0	0	0	1977	<i>Gortyna flavago</i>
	10	2	0	2	0	0	0	1	9	1	0	0	0	0	1978	Frosted Orange
	0	2	0	0	12	0	3	1	0	—	—	0	0	0	1977	<i>Mamestra brassicae</i>
	0	1	2	3	7	0	1	0	0	9	10	0	2	2	1978	Cabbage Moth
	26	2	2	8	14	16	116	14	87	—	—	8	34	0	1977	<i>Noctua pronuba</i>
	42	32	6	17	11	6	95	11	19	4	12	11	45	56	1978	Large Yellow Underwing
	9	0	3	8	11	3	3	6	11	—	—	0	2	2	1977	<i>Diataraxia oleracea</i>
	4	0	0	34	7	8	8	9	4	15	14	0	4	2	1978	Bright-line Brown-eye
	0	0	0	10	8	29	4	1	0	—	—	11	2	1	1977	<i>Euxoa nigricans</i>
	0	0	1	18	8	4	4	0	0	2	2	0	1	10	1978	Garden Dart
	36	12	15	46	14	38	16	11	40	—	—	3	94	7	1977	<i>Apamea secalis</i>
	16	15	23	64	21	32	26	11	9	40	35	1	87	118	1978	Common Rustic
	1	0	0	2	1	0	2	0	1	—	—	0	0	0	1977	<i>Melanchnra persicariae</i>
	1	0	0	8	0	0	4	0	0	0	5	0	1	1	1978	Dot Moth
	293	158	1	17	6	7	123	35	476	—	—	0	0	0	1977	<i>Operophtera brumata</i>
	325	187	2	3	1	14	125	15	257	4	0	2	1	0	1978	Winter Moth

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Pest Species	Year	Rothamsted (Geescroft)													
		22	87	374	332	305	292	213	357	180	347	370	130	171	384
<i>Gortyna micacea</i> Rosy Rustic	1977	8	1	—	50	0	5	33	116	2	—	4	0	0	—
	1978	3	3	0	31	0	0	11	48	5	0	7	1	0	5
<i>Bupalus piniaria</i> Bordered White	1977	0	0	—	3	0	1	0	1	0	—	0	0	18	—
	1978	0	0	0	8	0	5	0	0	0	0	0	0	32	0
<i>Panolis flammea</i> Pine Beauty	1977	0	0	—	65	0	1	0	0	0	—	0	0	22	—
	1978	0	0	0	38	0	1	0	1	0	0	0	0	1	0
<i>Cerapteryx graminis</i> Antler Moth	1977	0	0	—	28	0	1	0	28	0	—	0	0	0	—
	1978	0	0	1	20	0	0	2	14	0	0	1	0	0	0
<i>Erannis aurantiaria</i> Scarce Umber	1977	1	0	—	0	1	6	0	2	5	—	0	0	18	—
	1978	13	1	1	0	0	17	0	1	3	0	0	0	22	0
<i>Operophtera fagata</i> Northern Winter Moth	1977	0	0	—	0	0	1	0	2	4	—	0	0	0	—
	1978	1	0	0	0	1	3	0	0	4	0	0	0	4	0
<i>Apamea sordens</i> Rustic Shoulder-knot	1977	0	1	—	1	0	1	0	2	2	—	0	0	0	—
	1978	0	0	0	0	0	0	0	0	0	3	2	0	0	2
<i>Gortyna flavago</i> Frosted Orange	1977	0	0	—	3	0	0	0	9	1	—	0	0	0	—
	1978	0	0	3	0	0	0	12	4	0	0	0	0	0	0
<i>Mamestra brassicae</i> Cabbage Moth	1977	0	0	—	0	3	0	0	0	0	—	6	11	7	—
	1978	0	4	0	1	9	1	1	0	0	4	1	2	3	1
<i>Noctua pronuba</i> Large Yellow Underwing	1977	128	7	—	16	20	21	14	63	3	—	20	6	9	—
	1978	196	9	8	6	37	56	19	13	10	32	8	12	26	3
<i>Diataraxia oleracea</i> Bright-line Brown-eye	1977	1	1	—	0	0	0	1	39	1	—	10	4	0	—
	1978	11	16	7	3	4	0	5	31	2	9	29	2	2	11
<i>Euxoa nigricans</i> Garden Dart	1977	18	3	—	0	1	0	0	0	0	—	20	0	0	—
	1978	4	7	0	1	31	0	0	0	0	0	7	0	0	13
<i>Apamea secalis</i> Common Rustic	1977	37	28	—	10	20	6	5	124	68	—	91	24	6	—
	1978	35	68	21	9	34	44	21	52	35	70	36	12	10	16
<i>Melanchra persicariae</i> Dot Moth	1977	0	0	—	4	0	0	0	0	1	—	1	0	0	—
	1978	0	0	0	4	0	0	0	1	0	0	2	0	1	0
<i>Operophtera brumata</i> Winter Moth	1977	110	0	—	1	1	32	15	51	10	—	1	11	10	—
	1978	101	5	0	0	3	41	8	35	6	5	4	19	11	0

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Wisley		Wye		Alice Holt		Haslemere		Winchester		Lydd		Denny Lodge		Starcross		Yarner Wood I		Yarner Wood II		Slapton Ley		Rosewarne		Guernsey		Jersey		Year	Pest Species
1	1	7	2	5	7	6	2	—	3	2	10	0	0	4	7	1	4	2	1	14	9	10	3	2	8	1	3	1977	<i>Gortyna micacea</i>
0	0	0	0	1	1	0	0	—	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	6	1978	Rosy Rustic
1	0	0	0	0	0	—	—	—	—	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1977	<i>Bupalus piniaria</i>
0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1978	Bordered White
2	0	0	0	2	1	0	0	—	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1977	<i>Panolis flammea</i>
0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1978	Pine Beauty
1	0	0	0	6	0	—	—	—	—	3	6	0	0	1	1	3	6	2	1	0	0	0	0	0	0	0	0	1977	<i>Cerapteryx graminis</i>
0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1978	Antler Moth
2	0	3	0	2	5	—	—	—	—	0	0	5	0	0	0	18	34	0	0	0	0	0	0	0	0	0	0	1977	<i>Erannis aurantiaria</i>
0	0	0	0	11	15	0	0	0	0	0	0	21	0	0	0	53	116	0	0	0	0	0	0	0	0	0	0	1978	Scarce Umber
0	1	0	0	4	0	—	—	—	—	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1977	<i>Operophtera fagata</i>
1	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1978	Northern Winter Moth
0	0	1	0	1	0	—	—	—	—	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1977	<i>Apamea sordens</i>
6	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	1978	Rustic Shoulder-knot
0	0	0	0	0	0	—	—	—	—	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1977	<i>Gortyna flavago</i>
2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	1	0	0	0	0	0	1978	Frosted Orange
1	4	5	0	0	2	—	—	—	—	0	0	0	0	1	0	0	0	0	0	1	1	1	2	4	4	4	10	1977	<i>Mamestra brassicae</i>
0	0	3	0	0	2	1	2	0	2	0	0	0	0	0	0	0	0	0	0	5	4	4	4	4	4	0	0	1978	Cabbage Moth
17	21	28	18	6	—	—	—	—	—	2	6	6	1	1	34	15	15	6	6	6	9	2	3	2	3	3	3	1977	<i>Noctua pronuba</i>
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1978	Large Yellow Underwing
1	1	11	2	3	—	—	—	—	—	5	0	0	0	0	5	0	0	2	2	4	4	16	2	16	2	4	4	1977	<i>Diataraxia oleracea</i>
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	1978	Bright-line Brown-eye
0	0	4	1	0	—	—	—	—	—	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1977	<i>Euxoa nigricans</i>
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1978	Garden Dart
32	50	22	2	10	—	—	—	—	—	49	0	7	20	11	27	18	18	27	18	27	18	12	3	3	5	3	5	1977	<i>Apamea secalis</i>
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1978	Common Rustic
0	3	5	0	1	—	—	—	—	—	0	0	0	2	0	2	0	0	2	1	5	0	1	0	0	0	0	0	1977	<i>Melanchra persicariae</i>
7	14	30	44	22	—	—	—	—	—	0	18	4	533	1324	3	0	0	3	0	0	0	0	0	0	0	0	0	1978	Dot Moth
0	0	8	0	1	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1977	<i>Operophtera brumata</i>
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1978	Winter Moth

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**TABLE**  
*The Rothamsted Insect Survey—Light Traps: annual records*

Pest Species	Year	Inverpolly	Harris	Newton, Elgin	Beinn Eighe	New Deer	Carbost, Skye	Fort Augustus	Rannoch	Dundee	Culzean Castle	Rowardennan	East Craigs	St. Abbs	Auchincruive
		352	349	58	350	372	50	49	29	47	264	97	261	375	293
<i>Abraxas grossulariata</i> Magpie Moth	1977	10	17	0	54	0	7	0	0	0	0	0	0	—	0
	1978	3	26	0	99	0	3	0	0	0	1	0	0	1	0
<i>Agrotis segetum</i> Turnip Moth	1977	0	0	0	0	0	0	0	0	3	0	0	1	—	2
	1978	0	0	1	0	0	0	0	0	23	0	0	0	0	0
<i>Erannis defoliaria</i> Mottled Umber	1977	5	0	2	8	0	23	12	69	6	0	7399	0	—	0
	1978	—	—	2	10	0	10	21	241	3	3	9722	0	99	0
<i>Phlogophora meticulosa</i> Angle Shades	1977	0	0	0	0	0	0	0	0	0	0	0	—	—	2
	1978	0	0	0	0	0	2	0	0	0	0	0	1	1	0
<i>Alsophila aescularia</i> March Moth	1977	0	0	5	0	0	0	10	0	1	1	129	0	—	0
	1978	0	0	10	0	0	0	5	0	1	1	133	0	46	0
<i>Hepialus humuli</i> Ghost Swift	1977	0	0	1	3	3	4	0	1	0	0	3	0	—	0
	1978	0	1	0	0	1	2	0	0	0	0	1	0	1	0
<i>Hepialus lupulina</i> Common Swift	1977	0	0	0	0	0	0	1	6	0	0	1	1	—	0
	1978	0	0	0	0	0	0	0	14	0	0	2	0	2	2
<i>Agrotis ipsilon</i> Dark Sword Grass	1977	0	0	0	0	1	0	0	0	0	0	0	0	—	0
	1978	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Euproctis chrysorrhoea</i> Brown-tail	1977	0	0	0	0	0	0	0	0	0	0	0	0	—	0
	1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrotis exclamatoris</i> Heart and Dart	1977	0	0	135	1	10	0	1	0	32	95	0	69	—	43
	1978	0	1	11	0	1	7	1	0	47	80	0	74	172	27
<i>Plusia gamma</i> Silver Y	1977	1	0	1	0	1	4	0	0	2	2	1	1	—	0
	1978	0	0	0	0	0	2	1	1	0	0	0	0	14	0
<i>Laphygma exigua</i> Small Mottled Willow	1977	0	0	0	0	0	0	0	0	0	0	0	0	—	0
	1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nycterosea obstipata</i> The Gem	1977	0	0	0	0	0	0	0	0	0	0	0	0	—	0
	1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nomophila noctuella</i> Rush Veneer Pearl	1977	0	0	0	0	0	0	0	0	0	0	0	0	—	0
	1978	0	0	0	0	0	0	0	0	—	0	0	0	0	0
<i>Plutella maculipennis</i> Diamond-back Moth	1977	2	0	1	0	0	0	0	0	156	0	0	2	—	0
	1978	0	9	0	18	2	0	0	0	—	0	0	0	0	0
<i>Udea ferrugalis</i> Rusty Dot Pearl	1977	0	0	0	0	0	0	0	0	0	0	0	0	—	0
	1978	0	0	0	0	0	0	0	0	—	0	0	0	0	0

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	Kielder	Bedlington	Chester le Street	Middleton in Teesdale	Baldersby	Castletown, I.O.M.	Malham Tarn	Acomb	Blacktoft Sands	Spurn Head	Edale	Bangor	Gleadthorpe	Matlock	Year	Pest Species
	296	303	39	263	315	306	45	363	330	131	365	35	257	279		
	0	7	4	0	4	12	1	3	—	1	1	0	0	15	1977	<i>Abraxas grossulariata</i>
	0	4	2	0	7	8	0	7	1	2	1	1	0	25	1978	Magpie Moth
	0	0	0	0	4	0	0	1	—	2	0	0	13	2	1977	<i>Agrotis segetum</i>
	0	1	1	0	1	1	0	3	5	0	0	0	17	2	1978	Turnip Moth
	1	1	—	4	0	13	7	0	—	0	4	0	4	0	1977	<i>Erannis defoliaria</i>
	17	0	4	14	9	8	5	2	—	0	5	1	1	2	1978	Mottled Umber
	0	2	2	4	11	11	2	0	—	9	9	3	15	2	1977	<i>Phlogophora meticulosa</i>
	1	0	0	6	7	13	3	1	18	20	3	3	2	6	1978	Angle Shades
	0	0	1	2	1	0	1	0	—	0	0	0	8	2	1977	<i>Alsophila aescularia</i>
	0	0	3	4	9	0	0	0	0	0	3	0	3	1	1978	March Moth
	0	2	0	2	0	0	3	1	—	0	5	0	1	1	1977	<i>Hepialus humuli</i>
	0	2	1	0	1	0	2	0	0	0	0	0	0	0	1978	Ghost Swift
	1	6	1	0	4	0	1	0	—	25	0	0	14	6	1977	<i>Hepialus lupulina</i>
	2	20	1	0	9	0	0	1	77	35	1	0	18	6	1978	Common Swift
	0	0	0	0	0	1	0	0	—	1	0	0	0	0	1977	<i>Agrotis ipsilon</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1978	Dark Sword Grass
	0	0	0	0	0	0	0	0	—	0	0	0	0	0	1977	<i>Euproctis chrysorrhoea</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1978	Brown-tail
	1	139	161	59	477	475	7	116	—	376	281	331	587	599	1977	<i>Agrotis exclamationis</i>
	5	89	55	42	93	1382	2	66	113	81	33	20	421	19	1978	Heart and Dart
	5	9	15	41	59	92	2	57	—	95	11	7	7	8	1977	<i>Plusia gamma</i>
	3	6	21	28	40	17	5	31	0	78	1	0	3	18	1978	Silver Y
	0	0	0	0	0	0	0	0	—	0	0	0	0	0	1977	<i>Laphygma exigua</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1978	Small Mottled Willow
	0	0	0	0	0	0	0	0	—	0	0	0	0	0	1977	<i>Nycterosea obstipata</i>
	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1978	The Gem
	0	0	0	0	0	1	0	0	—	0	0	0	0	0	1977	<i>Nomophila noctuella</i>
	0	0	0	0	—	0	0	0	—	1	0	0	0	0	1978	Rush Veneer Pearl
	1	2	0	0	3	0	0	55	—	41	1	0	40	33	1977	<i>Plutella maculipennis</i>
	2	0	0	0	—	0	0	43	—	487	2	0	14	12	1978	Diamond-back Moth
	0	0	0	0	0	0	0	0	—	0	0	0	0	0	1977	<i>Udea ferrugalis</i>
	4	0	0	0	—	0	0	0	—	0	0	0	0	0	1978	Rusty Dot Pearl



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Pest Species	Year	Location													
		Gibraltar Point	Nantclwyd	Empingham	Wells next the Sea	Shardlow	Terrington	Preston Montford	Wolverhampton	Methwold Fen	Market Harborough	Aberystwyth	Monks Wood	Monks Wood (Ewingswode)	Broom's Barn
		223	243	280	274	378	381	382	267	301	138	340	94	277	88
<i>Abraxas grossulariata</i> Magpie Moth	1977	0	4	33	18	4	2	—	0	0	—	10	2	—	7
	1978	1	4	56	14	3	3	4	0	2	39	4	5	103	1
<i>Agrotis segetum</i> Turnip Moth	1977	0	0	20	11	0	4	—	0	16	—	1	3	—	15
	1978	0	1	10	0	1	17	1	0	22	0	0	2	5	2
<i>Erannis defoliaria</i> Mottled Umber	1977	0	52	2	0	2	0	—	0	0	—	9	1	—	1
	1978	0	62	2	0	6	1	13	0	1	0	14	0	61	1
<i>Phlogophora meticulosa</i> Angle Shades	1977	9	1	26	1	7	14	—	0	18	—	3	44	—	5
	1978	5	1	15	5	8	28	0	0	14	0	2	6	3	5
<i>Alsophila aescularia</i> March Moth	1977	0	4	1	1	1	0	—	0	1	—	8	2	—	1
	1978	0	54	2	2	11	2	46	0	8	8	7	3	213	5
<i>Hepialus humuli</i> Ghost Swift	1977	0	0	0	1	0	0	—	0	0	—	4	0	—	0
	1978	0	0	0	0	0	0	0	0	0	1	0	0	1	0
<i>Hepialus lupulina</i> Common Swift	1977	4	0	60	2	3	7	—	0	0	—	0	4	—	2
	1978	0	0	82	11	33	34	0	0	2	9	1	6	43	0
<i>Agrotis ipsilon</i> Dark Sword Grass	1977	0	0	0	0	0	0	—	0	0	—	0	0	—	0
	1978	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Euproctis chrysorrhoea</i> Brown-tail	1977	0	0	0	0	0	0	—	0	0	—	0	0	—	0
	1978	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrotis exclamationis</i> Heart and Dart	1977	145	1618	1045	24	468	23	—	3	93	—	1130	63	—	20
	1978	25	208	246	7	182	53	233	5	42	63	122	53	12	32
<i>Plusia gamma</i> Silver Y	1977	14	34	103	17	22	6	—	0	56	—	21	17	—	15
	1978	26	16	55	4	16	1	5	0	63	4	21	12	54	7
<i>Laphygma exigua</i> Small Mottled Willow	1977	0	0	0	0	0	0	—	0	0	—	0	0	—	0
	1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nycterosea obstipata</i> The Gem	1977	1	0	0	0	0	0	—	0	0	—	0	0	—	0
	1978	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Nomophila noctuella</i> Rush Veneer Pearl	1977	0	0	0	0	0	0	—	0	—	—	—	0	—	0
	1978	0	0	0	0	0	0	0	0	0	—	—	0	0	0
<i>Plutella maculipennis</i> Diamond-back Moth	1977	0	0	36	0	45	94	—	0	—	—	—	0	—	21
	1978	0	0	7	0	40	5	75	0	0	—	—	0	6	6
<i>Udea ferrugalis</i> Rusty Dot Pearl	1977	0	0	0	0	0	0	—	0	—	—	—	0	—	0
	1978	0	0	0	0	0	0	0	0	0	—	—	0	0	0

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		Tregaron	Llysdinam	Wellesbourne	Waresley	Luddington	Cockayne Hatley	Pershore	Shuttleworth	Rhandirmwyn	Bradwell Abbey	Tarleton	Woodstock	Rothamsted (Barnfield)	Rothamsted (Allotments)	Year	Pest Species
35	25	331	111	359	360	355	336	195	283	346	354	371	182	1	34	1977	<i>Abraxas grossulariata</i>
0	0	1	0	2	21	2	8	12	1	7	—	—	0	0	0	1978	Magpie Moth
0	0	0	10	3	3	45	187	34	7	0	—	—	0	40	3	1977	<i>Agrotis segetum</i>
0	0	0	3	3	0	0	46	28	1	0	10	0	0	6	0	1978	Turnip Moth
365	155	1	6	0	1	15	12	737	—	—	—	—	2	0	0	1977	<i>Erannis defoliaria</i>
478	187	0	3	0	0	0	0	18	13	941	0	0	3	0	0	1978	Mottled Umber
6	4	4	25	13	15	24	19	17	—	—	—	—	1	1	0	1977	<i>Phlogophora meticulosa</i>
13	2	0	19	5	4	22	11	5	5	7	1	1	0	5	0	1978	Angle Shades
63	13	2	26	0	9	17	6	25	—	—	—	—	1	2	1	1977	<i>Alsophila aescularia</i>
42	21	2	33	1	19	38	9	9	3	1	2	1	2	1	0	1978	March Moth
0	0	0	0	1	1	2	0	0	—	—	—	—	0	0	0	1977	<i>Hepialus humuli</i>
0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1978	Ghost Swift
0	0	1	8	13	46	9	1	0	—	—	—	—	0	31	25	1977	<i>Hepialus lupulina</i>
0	0	1	3	7	15	17	3	0	36	11	0	11	11	37	0	1978	Common Swift
0	0	0	0	0	0	1	0	1	—	—	—	—	0	0	0	1977	<i>Agrotis ipsilon</i>
0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1978	Dark Sword Grass
0	0	0	0	0	0	0	0	0	—	—	—	—	0	0	0	1977	<i>Euproctis chrysorrhoea</i>
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1978	Brown-tail
1376	439	69	104	103	163	151	35	435	—	—	—	—	5	78	13	1977	<i>Agrotis exclamationis</i>
185	214	58	84	86	56	158	49	82	21	59	3	49	3	51	0	1978	Heart and Dart
29	23	14	92	19	32	48	29	65	—	—	—	—	0	18	5	1977	<i>Plusia gamma</i>
12	7	6	51	3	9	13	8	23	12	15	0	0	0	4	7	1978	Silver Y
0	0	0	0	0	0	0	0	0	—	—	—	—	0	0	0	1977	<i>Laphygma exigua</i>
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1978	Small Mottled Willow
0	0	0	0	0	0	0	0	0	—	—	—	—	0	0	0	1977	<i>Nycterosea obstipata</i>
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1978	The Gem
—	—	0	0	0	0	0	0	0	—	—	—	—	0	0	0	1977	<i>Nomophila noctuella</i>
—	—	—	0	0	0	0	0	0	0	0	0	0	0	0	0	1978	Rush Veneer Pearl
—	—	307	42	37	89	2	14	1	—	—	—	—	1	259	86	1977	<i>Plutella maculipennis</i>
—	—	—	44	16	92	7	—	1	0	0	0	0	0	201	130	1978	Diamond-back Moth
—	—	0	0	0	0	0	0	0	3	—	—	—	0	0	0	1977	<i>Udea ferrugalis</i>
—	—	—	0	0	0	0	0	—	11	0	0	0	0	0	0	1978	Rusty Dot Pearl

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Pest Species	Year	Rothamsted (Geescroft)													
		22	87	374	332	305	292	213	357	180	347	370	130	171	384
<i>Abraxas grossulariata</i> Magpie Moth	1977	41	1	—	20	3	3	13	31	5	—	3	0	0	—
	1978	54	7	24	18	5	1	5	37	6	6	0	0	0	
<i>Agrotis segetum</i> Turnip Moth	1977	21	2	—	0	1	0	0	3	0	—	5	0	0	
	1978	7	8	0	0	0	0	0	0	0	1	0	1	0	
<i>Erannis defoliaria</i> Mottled Umber	1977	16	0	—	0	1	55	26	26	16	—	0	0	30	
	1978	16	1	0	2	1	47	31	38	8	0	0	1	26	
<i>Phlogophora meticulosa</i> Angle Shades	1977	12	6	—	7	6	23	1	19	3	—	0	5	1	
	1978	12	1	4	3	6	22	1	6	1	4	1	1	3	
<i>Alsophila aescularia</i> March Moth	1977	38	1	—	9	1	5	11	13	11	—	0	0	5	
	1978	40	3	2	1	0	6	39	19	6	0	0	0	8	
<i>Hepialus humuli</i> Ghost Swift	1977	0	0	—	3	0	0	0	0	0	—	0	0	0	
	1978	0	0	1	5	0	0	7	2	1	0	0	0	0	
<i>Hepialus lupulina</i> Common Swift	1977	15	2	—	0	19	6	3	0	3	—	34	0	13	
	1978	9	2	7	0	9	4	0	1	8	17	27	0	33	
<i>Agrotis ipsilon</i> Dark Sword Grass	1977	0	0	—	0	0	3	0	2	0	—	0	0	0	
	1978	0	1	0	0	1	3	0	3	0	0	0	0	0	
<i>Euproctis chrysorrhoea</i> Brown-tail	1977	0	2	—	0	0	0	0	0	0	—	285	0	0	
	1978	0	2	0	0	6	0	0	0	0	0	54	0	0	
<i>Agrotis exclamationis</i> Heart and Dart	1977	29	44	—	2162	11	169	190	4337	41	—	62	54	31	
	1978	24	70	29	226	16	24	80	386	27	28	34	35	21	
<i>Plusia gamma</i> Silver Y	1977	51	25	—	5	63	85	24	138	3	—	43	3	46	
	1978	12	8	34	11	25	25	12	68	5	21	15	5	22	
<i>Laphygma exigua</i> Small Mottled Willow	1977	0	0	—	0	0	0	0	0	0	—	0	0	0	
	1978	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Nycterosea obstipata</i> The Gem	1977	0	0	—	0	0	0	0	9	0	—	0	0	0	
	1978	0	0	0	0	0	0	0	5	0	0	0	0	0	
<i>Nomophila noctuella</i> Rush Veneer Pearl	1977	0	0	—	—	0	0	0	—	0	—	0	0	0	
	1978	0	0	0	—	0	0	0	—	0	0	0	0	0	
<i>Plutella maculipennis</i> Diamond-back Moth	1977	4	112	—	—	21	0	0	—	3	—	137	0	2	
	1978	0	66	0	—	5	0	0	—	1	23	122	0	4	
<i>Udea ferrugalis</i> Rusty Dot Pearl	1977	0	0	—	—	0	0	0	—	0	—	0	0	0	
	1978	0	0	0	—	0	0	0	—	0	0	0	0	0	

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2(f)

of moths of economic, or other importance for 1977 and 1978

	Wisley	Wye	Alice Holt	Haslemere	Winchester	Lydd	Denny Lodge	Starcross	Yarner Wood I	Yarner Wood II	Slapton Ley	Rosewarne	Guernsey	Jersey	Year	Pest Species
	289	181	46	219	379	366	368	149	266	308	67	114	252	146		
0	39	1	0	0	23	13	0	0	2	0	10	4	28	3	1977	<i>Abraxas grossulariata</i>
0	52	1	0	0	—	4	0	2	0	7	16	3	22	5	1978	Magpie Moth
3	16	0	1	—	0	0	0	2	0	0	0	4	3	1	1977	<i>Agrotis segetum</i>
4	0	0	0	0	3	0	0	1	0	0	1	8	2	0	1978	Turnip Moth
5	5	22	17	—	0	31	0	69	171	0	0	0	0	0	1977	<i>Erannis defoliaria</i>
3	14	18	6	0	0	10	1	96	201	1	0	0	0	1	1978	Mottled Umber
9	21	4	4	—	3	1	1	11	4	3	0	0	0	1	1977	<i>Phlogophora meticulosa</i>
4	37	1	2	5	3	0	2	5	2	4	3	2	3	3	1978	Angle Shades
4	27	13	4	—	0	4	0	17	17	1	3	0	3	3	1977	<i>Alsophila aescularia</i>
9	30	4	2	3	1	3	2	16	21	2	2	0	0	7	1978	March Moth
0	0	0	1	—	0	0	0	0	0	0	1	0	0	0	1977	<i>Hepialus humuli</i>
0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	1978	Ghost Swift
0	55	2	1	—	54	2	0	0	0	0	0	3	0	0	1977	<i>Hepialus lupulina</i>
2	10	4	0	0	33	0	0	0	0	0	1	0	0	0	1978	Common Swift
0	3	0	0	—	1	0	1	2	0	1	0	0	0	0	1977	<i>Agrotis ipsilon</i>
0	4	0	0	0	0	0	0	0	0	0	1	0	0	1	1978	Dark Sword Grass
0	2	0	0	—	10	0	0	0	0	0	0	0	0	0	1977	<i>Euproctis chrysorrhoea</i>
0	1	0	0	0	21	0	0	0	0	0	0	0	0	0	1978	Brown-tail
53	219	36	67	—	62	12	359	523	136	665	576	56	94	94	1977	<i>Agrotis exclamationis</i>
56	160	34	21	83	25	11	19	19	2	64	97	11	23	23	1978	Heart and Dart
28	82	25	42	—	16	5	11	73	70	24	62	8	26	26	1977	<i>Plusia gamma</i>
20	25	7	15	12	9	6	6	26	20	18	11	9	24	24	1978	Silver Y
0	0	0	0	—	0	0	0	0	0	0	0	0	0	0	1977	<i>Laphygma exigua</i>
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1978	Small Mottled Willow
0	0	0	0	—	0	0	0	4	0	0	0	0	0	0	1977	<i>Nycterosea obstipata</i>
0	0	0	0	0	0	1	0	1	1	0	1	2	1	1	1978	The Gem
0	0	0	0	—	0	0	0	—	—	0	0	0	0	0	1977	<i>Nomophila noctuella</i>
1	0	0	0	0	0	0	0	0	0	0	6	2	1	1	1978	Rush Veneer Pearl
190	42	36	24	—	85	0	114	—	—	0	182	281	85	85	1977	<i>Plutella maculipennis</i>
101	67	17	9	0	0	0	24	4	1	0	276	125	62	62	1978	Diamond-back Moth
0	2	0	0	—	0	0	0	—	—	0	3	0	1	1	1977	<i>Udea ferrugalis</i>
0	9	0	1	0	0	0	11	9	2	0	17	8	17	17	1978	Rusty Dot Pearl