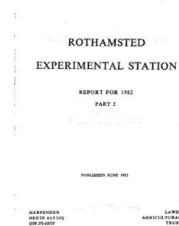


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ROTHAMSTED  
RESEARCH

## Rothamsted Experimental Station Report for 1982 Part 2



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### **Rothamsted Insect Survey Fourteenth Annual Summary With a Comment on the Neuroptera by J Bowden**

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

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## Rothamsted Insect Survey

### Fourteenth Annual Summary

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

With a comment on the Neuroptera by J. BOWDEN

### Suction traps 1982

Daily samples were collected from 13 April to 4 November 1982 and the *Aphid Bulletins* were issued weekly from 13 April (*Bulletin* No. 1) to 4 November (*Bulletin* No. 30). The 33 aphid taxa listed in Table 1 (a-h) are those in the *Aphid Bulletin*.

Dr L. A. D. Turl and colleagues at the Department of Agriculture and Fisheries for Scotland (DAFS), East Craigs, were responsible for the operation of traps at Elgin, Dundee, East Craigs, Pathhead, Ayr and also Stirling. The trap at Rainham only operated from 10 April to 15 July; it only appeared on *Bulletins* up to 15 July and in Table 1 (a-d). Traps in Holland continued to operate, but records do not appear on the *Bulletins* nor in Table 1. Suction traps sampling at 5ft (1.5 m) were operating at East Craigs, Ingraston, Hereford and Rothamsted Tower; records for these do not appear on *Bulletins* nor in Table 1.

Samples 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 samples 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 the Department of Agriculture and Fisheries for Scotland, East Craigs. We wish to thank Dr H. L. G. Stroyan of the Ministry of Agriculture, Fisheries and Food, Harpenden Laboratory, for helping with taxonomic problems.

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

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

Sample volumes were halved at various sites as follows:—Kirton and Littlehampton from 8 June to 23 June, Preston from 8 June to 23 June, and from 23 September to 20 October, Shardlow, Writtle and Wye from 8 June to 18 October, Long Ashton and Silwood from 8 June to 19 October, Rainham from 9 June to 15 July, Hereford from 9 June to 23 June and from 8 July to 26 September. In addition, when numbers were high, catches were sub-sampled in the laboratory to reduce the pressure of work. The weekly *Bulletins* and Table 1 (a-h) are corrected to full volume sample.

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

Of particular note during 1982 were the exceptionally large numbers of cereal aphids in traps from eastern Scotland during July and August. Three species were involved, *Metopolophium dirhodum*, *Rhopalosiphum padi* and *Sitobion avenae*, with numbers of *M.*

## ROTHAMSTED REPORT FOR 1982, PART 2

*dirhodum* in the traps reaching levels only exceeded previously in 1979 in eastern and midland England. It is thought that this large population build-up occurred too late to cause economic damage to spring barley in Scotland.

### Light traps

Table 2(a-f) gives the annual catches during 1980 and 1981 of the same pest, or migratory Lepidoptera as in previous years.

Ninety sites completed the 364-day sample for 1981.

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.

### Neuroptera in the Rothamsted Insect Survey, 1979-82

Three species have been added to the list trapped (*Rothamsted Reports*, for 1972, Part 2, 208-210; 1975, Part 2, 126-128; 1978, Part 2, 171-173); *Wesmaelius concinnus* taken once at Littlehampton in 1979 and once at High Mowthorpe in 1982; *Micromus angulatus* once at Silwood in 1982 and *Chrysopa perla* taken once at Shardlow and once in the 1.2 m trap at Hereford, both in 1982. *Hemerobius pini* was taken again, one at Elgin in 1980. The Survey traps have now taken 18 of the 29 British species of Hemerobiidae and 9 of 15 Chrysopidae.

The species recorded above illustrate an interesting feature, the relative frequency with which species are caught. Some species, such as *M. angulatus* and *H. pini* are very local, or rare, or both, so it is not surprising that they are trapped infrequently. Others such as *W. concinnus* and *C. perla* are common and might be expected to be trapped more often than they are. However, many Neuroptera are habitat specialists, although in their habitats larvae may feed on a variety of prey. *W. concinnus* is confined to conifers while *C. perla* is predominantly an insect of deciduous woods. The fact that Survey traps are sited in more or less open areas may result in infrequent catches of species such as *W. concinnus* and *C. perla* but dispersive propensity is probably a more important factor. *Hemerobius stigma* is a conifer frequenting species but is one of the more commonly caught Hemerobiids and *Chrysopa carnea* is common in deciduous woodland, but many other habitats as well and is the most abundantly trapped of all Neuroptera. All four British species of *Symphorobius* are known to occur at Rothamsted and two of them, *S. elegans* and *S. pygmaeus*, which are common on oaks, are taken, often in numbers, in light traps but are very rare in suction trap catches, none ever having been caught in either suction trap at Rothamsted. Similarly, *Micromus paganus* is a very common insect but trapped very infrequently by suction traps. By contrast *Hemerobius humulinus*, *Wesmaelius betulinus* and *W. subnebulosa* are also found on deciduous trees, including oaks, and are among the commonest Hemerobiids in suction-trap catches. The differing catches of common species in the Survey suction traps presumably reflect species differences in dispersal behaviour.

Trap records, which now extend over 13 years, suggest, at least for those species trapped most often, that Neuroptera are insects pre-eminently of south and east England. Even *C. carnea* is markedly less common in traps north of Rothamsted and west of Littlehampton. *C. carnea* overwinters as adults, these becoming active in April and May and giving rise to the next generation of adults in July and early August. The difference between south-eastern and other traps is greatest up to week 32, even later in the most northern traps, suggesting that there is a summer dispersal from south-east

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England, as in some aphid species. Although other Chrysopidae and all Hemerobiidae are trapped in very much smaller numbers than *C. carnea*, data suggest the same pattern of distribution and dispersal with the possible exception of *H. stigma* which occurs as frequently at Elgin as in many of the southern traps. (*J. Bowden*).

See Table 3 (a) and (b) on following pages.

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**TABLE**  
*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.											1	
<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>												1
<i>Eriosoma ulmi</i>												
<i>Hyalopterus pruni</i>												
<i>Hyperomyzus lactucae</i>												
<i>Macrosiphum euphorbiae</i>												
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>												
<i>Metopolophium festucae s.l.</i>												
<i>Myzus ascalonicus</i>								1				
<i>Myzus certus</i>												
<i>Myzus ornatus</i>												
<i>Myzus persicae</i> grp.												1
<i>Nasonovia ribisnigri</i>												
<i>Pemphigus</i> spp.												
<i>Peniatrishopus fragaefolii</i>												
<i>Phorodon humuli</i>												
<i>Phyllaphis fagi</i>												
<i>Rhopalosiphum insertum</i>												
<i>Rhopalosiphum maidis</i>												
<i>Rhopalosiphum padi</i>						1						7
<i>Sitobion avenae</i>												
<i>Sitobion fragariae</i>												
First aphid caught						April 1-7		April 1-7			April 21	March 26-1 April

Silwood 29 January-4 February, 1 *Sitobion fragariae*  
 Rosewarne 11-17 February, 1 *Myzus ornatus*  
 Wye 11-17 March, 1 *Myzus persicae*  
 Rainham 19 March, 1 *Hyalopterus pruni*  
 Rainham 19 March, 1 *Rhopalosiphum padi*  
 Rainham 21 March, 1 *Hyalopterus pruni*  
 Rainham 21 March, 1 *Rhopalosiphum insertum*  
 Rainham 21 March, 1 *Sitobion avenae*

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1(a)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1982  
26 March to 22 April 1982

										Sites	Species
Broom's Barn	Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Wye, Kent	Littlehampton	Starcross	Rosewarne	
							1				<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>
									1		<i>Brevicoryne brassicae</i>
											<i>Cavariella aegopodii</i>
											<i>Cinara</i> spp.
											<i>Drepanosiphum platanoidis</i>
										1	<i>Dysaphis plantaginea</i>
											<i>Elatobium abietinum</i>
											<i>Eriosoma ulmi</i>
											<i>Hyalopterus pruni</i>
											<i>Hyperomyzus lactucae</i>
											<i>Macrosiphum euphorbiae</i>
					1				2		<i>Megoura viciae</i>
1			4	2	3				1	4	<i>Metopolophium dirhodum</i>
				2							<i>Metopolophium festucae</i> s.l.
											<i>Myzus ascalonicus</i>
											<i>Myzus certus</i>
								1	1		<i>Myzus ornatus</i>
											<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>
					2	1		1		1	<i>Rhopalosiphum maidis</i>
											<i>Rhopalosiphum padi</i>
										1	<i>Sitobion avenae</i>
										1	<i>Sitobion fragariae</i>
April 22			April 21	March 19	April 13	Jan 29-4 Feb	March 11-17	April 15	April 15	Feb 11-17	First aphid caught

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

Sites	Elgin	Dundee	Edinburgh	Pathhead	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Kirton	Shardlow	Aberystwyth
Species												
<i>Acyrtosiphon pisum</i>								1			1	
<i>Amphorophora rubi</i>												
<i>Aphis fabae</i> grp.							3				2	1
<i>Aphis</i> spp.							3					1
<i>Aulacorthum solani</i>									2	1		
<i>Brachycaudus helichrysi</i>	1									3		
<i>Brevicoryne brassicae</i>							3	2	1	3	3	
<i>Cavariella aegopodii</i>			1									
<i>Cinara</i> spp.												
<i>Drepanosiphum platanoidis</i>	72	50	293	139		11	370	187	64	17	561	
<i>Dysaphis plantaginea</i>												
<i>Elatobium abietinum</i>	124		1	7	289	2	74	1	2		2	388
<i>Eriosoma ulmi</i>												
<i>Hyalopterus pruni</i>												
<i>Hyperomyzus lactucae</i>										2		1
<i>Macrosiphum euphorbiae</i>							5		2	1	1	
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>			1						2		2	1
<i>Metopolophium festucae</i> s.l.							1	1		5	6	8
<i>Myzus ascalonicus</i>				3		2	19	3	6	11	16	1
<i>Myzus certus</i>												
<i>Myzus ornatus</i>							5			1		
<i>Myzus persicae</i> grp.												
<i>Nasonovia ribisnigri</i>			1					1			1	1
<i>Pemphigus</i> spp.												
<i>Pentatrichopus fragaefolii</i>												
<i>Phorodon humuli</i>												
<i>Phyllaphis fagi</i>	1							1		1	1	
<i>Rhopalosiphum insertum</i>		3	1				25	1	21	2	1	
<i>Rhopalosiphum maidis</i>									1			
<i>Rhopalosiphum padi</i>			2	1			2	1	1	3	1	14
<i>Sitobion avenae</i>							1					3
<i>Sitobion fragariae</i>										1	1	1
First aphid caught	May 11	May 8	May 10	May 9	May 9		April 23		May 10	May 8		

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1(b)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1982  
23 April to 20 May 1982

Broom's Barn	Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Wye, Kent	Littlehampton	Starcross	Rosewarne	Sites	Species
1			1	19	2		4			2		<i>Acyrtosiphon pisum</i>
1			1	1		1			1			<i>Amphorophora rubi</i>
			1	3	1	4	2	2	7	2		<i>Aphis fabae</i> grp.
1		2	2	6	2	1	3	3	1	3		<i>Aphis</i> spp.
1	1	3	76	119	22	10	1	10	12	23		<i>Aulacorthum solani</i>
										7		<i>Brachycaudus helichrysi</i>
2		4	5	13	2	4	1	4	2	9		<i>Brevicoryne brassicae</i>
												<i>Cavariella aegopodii</i>
28	21	2	5	21	11	3	4	25	6			<i>Cinara</i> spp.
2	1	2	2	7	11	5	21	1	7	46		<i>Drepanosiphum platanoidis</i>
												<i>Dysaphis plantaginea</i>
1			2	8		1	1	3		3		<i>Elatobium abietinum</i>
2	1	2	5	23	16	6	5	4	4	7		<i>Eriosoma ulmi</i>
												<i>Hyalopterus pruni</i>
1			3	58	10	4	1	7	7	1		<i>Hyperomyzus lactucae</i>
20	21	22	77	84	22	42	39	18	21	68		<i>Macrosiphum euphorbiae</i>
4	2	39	37	64	27	40	7	14	7	11		<i>Megoura viciae</i>
				19	1		1					<i>Metopolophium dirhodum</i>
			1					2				<i>Metopolophium festucae s.l.</i>
			3	6		1		2		8		<i>Myzus ascalonicus</i>
1		1		3	2	6		1	3	3		<i>Myzus certus</i>
				7								<i>Myzus ornatus</i>
				1								<i>Myzus persicae</i> grp.
				1								<i>Nasonovia ribisnigri</i>
1	1	1	8	13		1		1		1		<i>Pemphigus</i> spp.
				1								<i>Pentatrichopus fragaefolii</i>
				1	1	1						<i>Phorodon humuli</i>
	22	5	23	38	5	17	13	9	9	12		<i>Phyllaphis fagi</i>
												<i>Rhopalosiphum insertum</i>
12		3	6	15	1	3	17	19	34	78		<i>Rhopalosiphum maidis</i>
	5	5	20	24	4	4	8	10	8	34		<i>Rhopalosiphum padi</i>
	1		3	27	2			1	8	7		<i>Sitobion avenae</i>
												<i>Sitobion fragariae</i>
	May 6	May 7										First aphid caught



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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>				1			4	1	4	3	15	
<i>Amphorophora rubi</i>							1		1		5	
<i>Aphis fabae</i> grp.	2			1	1		1				4	
<i>Aphis</i> spp.			3	3		3	10	3	18	10	17	
<i>Aulacorthum solani</i>						1	4		4			1
<i>Brachycaudus helichrysi</i>	69	18	53	77	21	44	396	88	100	31	78	6
<i>Brevicoryne brassicae</i>												
<i>Cavariella aegopodii</i>	29	8	20	8	5	14	20	78	176	185	97	1
<i>Cinara</i> spp.	3	1	2		3		12	3	5	6	7	5
<i>Drepanosiphum platanoidis</i>	389	254	1345	563	58	257	221	574	1262	248	1211	100
<i>Dysaphis plantaginea</i>											2	
<i>Elatobium abietinum</i>	664	14	39	56	710	46	253	51	39	1		817
<i>Eriosoma ulmi</i>	1	12	7	6	2	1	28		23	11	18	9
<i>Hyalopterus pruni</i>	3	37	2	11			30	3	54	5	23	2
<i>Hyperomyzus lactucae</i>			4			2		6	6	6	2	
<i>Macrosiphum euphorbiae</i>		1	3				30		3	15	10	2
<i>Megoura viciae</i>							1		4		1	
<i>Metopolophium dirhodum</i>				2		1	4	1	13	6	30	10
<i>Metopolophium festucae s.l.</i>			1	3	5	5	24	73	46	218	383	23
<i>Myzus ascalonicus</i>	1		4	3		5	26	11	16	11	25	1
<i>Myzus certus</i>							2		1		2	
<i>Myzus ornatus</i>						1	2				1	
<i>Myzus persicae</i> grp.					1					1	2	3
<i>Nasonovia ribisnigri</i>			2				4		1	4	1	
<i>Pemphigus</i> spp.							3	1	1	2	3	
<i>Pentatrachopus fragaefolii</i>												
<i>Phorodon humuli</i>						1	8	1		10	30	15
<i>Phyllaphis fagi</i>	17	3	5	5	19	5	51	12	11	16	17	2
<i>Rhopalosiphum insertum</i>	1	5	8	7	3	28	52	49	32	15	15	
<i>Rhopalosiphum maidis</i>				2			3	3	2	6		1
<i>Rhopalosiphum padi</i>		21	31	22	14	13	23	14	2	14	7	18
<i>Sitobion avenae</i>			1	1	2	1	36	1	30	6	16	16
<i>Sitobion fragariae</i>			2	1		6	6	3	2	2	12	

ROTHAMSTED INSECT SURVEY

1(c)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1982  
21 May to 17 June 1982

	Broom's Barn	Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Wye, Kent	Littlehampton	Starcross	Rosewarne	Sites	Species
6	1	6	18	62	8	13	11	5	4	6	6	<i>Acyrtosiphon pisum</i>	
1			10	4	1		2	5	2	4	4	<i>Amphorophora rubi</i>	
1	2	1	1	5	2	3	4	7	2	3	3	<i>Aphis fabae</i> grp.	
	6	14	18	49	31	44	22	43	21	11	11	<i>Aphis</i> spp.	
2	2		1	31	8	5	5	7	15	52	52	<i>Aulacorthum solani</i>	
27	45	152	386	561	118	92	74	63	70	43	43	<i>Brachycaudus helichrysi</i>	
	1	1	1	7	2	7	11	16	38	1	1	<i>Brevicoryne brassicae</i>	
111	108	22	49	174	40	54	21	34	33	11	11	<i>Cavariella aegopodii</i>	
2	4	2	7	8	5	10	7	5	2	1	1	<i>Cinara</i> spp.	
93	308	85	110	96	225	233	72	140	80	65	65	<i>Drepanosiphum platanoidis</i>	
1	2	1	1	2		5	2	3	1			<i>Dysaphis plantaginea</i>	
2	5	4	2	5	42	14	19	2	31	20	20	<i>Elatobium abietinum</i>	
7	69	4	11	51	15	14	27	7	1			<i>Eriosoma ulmi</i>	
3	21	8	3	43	3	33	50	7	2	1	1	<i>Hyalopterus pruni</i>	
1	1	5	12	29	3	11	3	11	8	3	3	<i>Hyperomyzus lactucae</i>	
3	3	26	34	212	25	58	40	33	21	20	20	<i>Macrosiphum euphorbiae</i>	
		1	1	2		2	4	1				<i>Megoura viciae</i>	
18	11	25	41	407	129	98	50	150	206	17	17	<i>Metopolophium dirhodum</i>	
150	156	287	269	509	216	341	460	190	96	128	128	<i>Metopolophium festucae s.l.</i>	
5	12	33	15	35	28	26	9	13	5	13	13	<i>Myzus ascalonicus</i>	
1		2	3	20	4	4		9	5	1	1	<i>Myzus certus</i>	
		1		7	1	5	3	6	4	2	2	<i>Myzus ornatus</i>	
1	1	5	29	104	9	10	25	38	3	8	8	<i>Myzus persicae</i> grp.	
	1	3	5	12	4	2	1	8	10	4	4	<i>Nasonovia ribisnigri</i>	
	7	1		7	2	9	10	1	1	1	1	<i>Pemphigus</i> spp.	
			3					2				<i>Pentatrichopus fragaefolii</i>	
21	186	23	175	519	18	57	197	11	3	1	1	<i>Phorodon humuli</i>	
8	6	11	4	6	5	57	5	6	3	1	1	<i>Phyllaphis fagi</i>	
	20	11	12	59	7	18	17	48	23	112	112	<i>Rhopalosiphum insertum</i>	
			3	1				1	3	2	2	<i>Rhopalosiphum maidis</i>	
6	13	4	10	72	13	19	11	31	98	299	299	<i>Rhopalosiphum padi</i>	
17	9	32	99	356	137	220	89	119	107	113	113	<i>Sitobion avenae</i>	
1	5	4	18	67	17	18	3	11	44	59	59	<i>Sitobion fragariae</i>	

ROTHAMSTED REPORT FOR 1982, 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>	4	1	1	2	2	7	5	49	21	311	86	7
<i>Amphorophora rubi</i>		1					1	1		2		
<i>Aphis fabae</i> grp.	1	1			2	1	1	5	4	26	12	2
<i>Aphis</i> spp.		7	4	1	2	1	14	3	11	26	34	1
<i>Aulacorthum solani</i>							1					
<i>Brachycaudus helichrysi</i>	46	28	18	38	20	7	4	4	44	10	14	
<i>Brevicoryne brassicae</i>											2	2
<i>Cavariella aegopodii</i>	12	3	12	11	3	10	7	16	33	31	18	
<i>Cinara</i> spp.	40	15	18	31	125	5	9	1	1	4	2	28
<i>Drepanosiphum platanoidis</i>	163	158	201	68	24	73	30	49	400	15	84	14
<i>Dysaphis plantaginea</i>												
<i>Elatobium abietinum</i>	2				1		2		2			1
<i>Eriosoma ulmi</i>	9	28	2	8	1	4	6	6	9	1		
<i>Hyalopterus pruni</i>	1	73	3	4	9	3	54	28	74	72	108	15
<i>Hyperomyzus lactucae</i>				1		1	1	3	3	14	2	
<i>Macrosiphum euphorbiae</i>	1	2	7	3	2	2	7	1	23	159	44	26
<i>Megoura viciae</i>	1				1		4		1	2	8	1
<i>Metopolophium dirhodum</i>	324	996	1690	956	263	423	74	537	308	1722	1714	359
<i>Metopolophium festucae s.l.</i>	1	3	8	25	3	5	9	51	27	107	4	3
<i>Myzus ascalonicus</i>							2					
<i>Myzus certus</i>							1	3	1	4	2	
<i>Myzus ornatus</i>							2					
<i>Myzus persicae</i> grp.		6	1		2			2	7	31	20	4
<i>Nasonovia ribisnigri</i>				1				1	1			
<i>Pemphigus</i> spp.		8	7	4	1	2	4	8	10	70	16	
<i>Pentatrachopus fragaefolii</i>										1		
<i>Phorodon humuli</i>	1	2					2			3	2	
<i>Phyllaphis fagi</i>	7	8	2	1	7	1	19	6	2	6		1
<i>Rhopalosiphum insertum</i>	5	2	6	1	6	7	13	10	13	20	2	
<i>Rhopalosiphum maidis</i>	9	6	3	14	2	9	31	3	16	16	4	16
<i>Rhopalosiphum padi</i>	89	110	67	121	31	47	44	66	18	663	196	149
<i>Sitobion avenae</i>	3	4	17	15	63	49	108	152	374	1892	1620	1260
<i>Sitobion fragariae</i>	5	3	8	25	7	2	5	5	4	18	10	

ROTHAMSTED INSECT SURVEY

1(d)

of aphids of economic, or other, interest reported in the *Weekly Bulletin* 1982  
18 June to 15 July 1982

											Sites
Broom's Barn	Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Wye, Kent	Littlehampton	Starcross	Rosewarne	Species
160	19	31	98	88	14	18	28	14	3	1	<i>Acyrtosiphon pisum</i>
28	5	13	74	12	2	6	6	1	2	2	<i>Amphorophora rubi</i>
14	4	20	86	48	8	32	78	10	1	3	<i>Aphis fabae</i> grp.
							2	22	7	6	<i>Aphis</i> spp.
15	1	2	14	8	4	4	2	4	2	2	<i>Aulacorthum solani</i>
	6	3	18	20	6	10	24	8	3	1	<i>Brachycaudus helichrysi</i>
26	8	6	32	18	8	12	8	8	7		<i>Brevicoryne brassicae</i>
2	1	1	2	2			2	2	3		<i>Cavariella aegopodii</i>
12	25	16	6	6	20	28	12	8	8	3	<i>Cinara</i> spp.
1	1	1	2								<i>Drepanosiphum platanoidis</i>
									1		<i>Dysaphis plantaginea</i>
2	1		4	4	4	2	4				<i>Elatobium abietinum</i>
59	67	90	154	356	40	164	58	23	22	2	<i>Eriosoma ulmi</i>
4	2	3	4		6		10	2		1	<i>Hyalopterus pruni</i>
33	36	12	52	26	14	8	30	32	10	1	<i>Hyperomyzus lactucae</i>
1		4	4	2		18					<i>Macrosiphum euphorbiae</i>
928	534	146	232	158	226	116	168	87	56	1	<i>Megoura viciae</i>
48	21	17	4	2	6	6	14	5	6		<i>Metopolophium dirhodum</i>
1		1									<i>Metopolophium festucae s.l.</i>
	1		6				2	1	1		<i>Myzus ascalonicus</i>
			2		2				1		<i>Myzus certus</i>
98	7	55	134	44	22	16	216	37	5	1	<i>Myzus ornatus</i>
3	2		2	6	2		6	2	1		<i>Myzus persicae</i> grp.
1	27	2	6	20	4	6	10	4	1		<i>Nasonovia ribisnigri</i>
				2							<i>Pemphigus</i> spp.
6	4	2	26	42	2	2	20	1	1		<i>Pentatrachopus fragaefolii</i>
6	4		2	2		8	4		2		<i>Phorodon humuli</i>
12	18	10	42	88		64	34	38	42	14	<i>Phyllaphis fagi</i>
1	3	5	4		10	2	12	4	16	5	<i>Rhopalosiphum insertum</i>
660	76	233	314	968	36	752	262	328	374	66	<i>Rhopalosiphum maidis</i>
1414	1337	1000	1616	1182	3004	1492	1368	649	519	161	<i>Rhopalosiphum padi</i>
9	18	19	66	38	8	14	6	9	9		<i>Sitobion avenae</i>
											<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1982, 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>	116	166	21	64	195	25	5	23	49	106	8	2
<i>Amphorophora rubi</i>	1	28	2	1			1	1				
<i>Aphis fabae</i> grp.	76	134	23	58	101	26	8	13	151	93	60	4
<i>Aphis</i> spp.	12	31	15	6	23	15	17	86	96	363	322	4
<i>Aulacorthum solani</i>	1	1		1	2		3	1	2	1		1
<i>Brachycaudus helichrysi</i>	197	324	184	305	54	19	9	12	28	9	18	4
<i>Brevicoryne brassicae</i>	88	3		2	1					3	58	
<i>Cavariella aegopodii</i>	36	23	17	22	4	10	6	17	27	14	18	4
<i>Cinara</i> spp.	21	33	8	3	35	3	2		6	1		4
<i>Drepanosiphum platanoidis</i>	62	145	129	44	23	209	42	62	697	38	166	5
<i>Dysaphis plantaginea</i>												
<i>Elatobium abietinum</i>		1										
<i>Eriosoma ulmi</i>		1						1	1			
<i>Hyalopterus pruni</i>	57	4220	65	37	24	127	145	366	147	182	350	24
<i>Hyperomyzus lactucae</i>	8	26	6	19	1	2	2	5	2	4	6	1
<i>Macrosiphum euphorbiae</i>	76	276	133	186	177	24	181	22	103	143	128	76
<i>Megoura viciae</i>	4	1	2	1	2		7	2		9	20	
<i>Metopolophium dirhodum</i>	9266	43633	12731	29716	867	795	256	919	244	857	1390	63
<i>Metopolophium festucae s.l.</i>	83	20	23	145	195	33	62	41	225	14	4	9
<i>Myzus ascalonicus</i>												
<i>Myzus certus</i>		1	1	1		1	1		2	14	4	
<i>Myzus ornatus</i>	1	1	1				2					
<i>Myzus persicae</i> grp.	16	193	30	12	36	6	5	33	35	132	104	7
<i>Nasonovia ribisnigri</i>	16	4	1	7			2	4				2
<i>Pemphigus</i> spp.	8	20	4	1	57	7	2	5	22	10	26	3
<i>Pentatrichopus fragaefolii</i>								1				
<i>Phorodon humuli</i>		12	3			2	3	2		1	4	
<i>Phyllaphis fagi</i>		11	1									
<i>Rhopalosiphum insertum</i>	62	268	58	242	627	56	220	392	200	102	116	1
<i>Rhopalosiphum maidis</i>				1	2	10	10	9	11	9		4
<i>Rhopalosiphum padi</i>	15069	22298	5122	13870	2780	417	713	331	338	2065	526	238
<i>Sitobion avenae</i>	3508	13918	1838	4319	1627	445	1689	954	1308	2772	2587	1220
<i>Sitobion fragariae</i>	31	19	27	25	9	81	21	87	28	76	114	

ROTHAMSTED INSECT SURVEY

1(e)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1982  
16 July to 12 August 1982

Broom's Barn	Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Wye, Kent	Littlehampton	Starcross	Rosewarne	Sites	Species
26	6	19	42		6		16	6	6			<i>Acyrtosiphon pisum</i>
102	22	33	422		18	26	34	19	4	5		<i>Amphorophora rubi</i>
50	40	73	974		104	48	114	70	6	6		<i>Aphis fabae</i> grp.
2	2						2					<i>Aphis</i> spp.
4		3	8		6		6	4	1			<i>Aulacorthum solani</i>
5	14	3	14		12	10	12	11	2			<i>Brachycaudus helichrysi</i>
28	12	4	18		2	4	4	3				<i>Brevicoryne brassicae</i>
1			4		2		2		1			<i>Cavariella aegopodii</i>
19	10	11	18		62	8	20	51	7	3		<i>Cinara</i> spp.
		1	2									<i>Drepanosiphum platanoidis</i>
1												<i>Dysaphis plantaginea</i>
130	174	194	246	Trap not operating	108	192	48	41	73	22		<i>Elatobium abietinum</i>
2	8		14		8		12	5	3	1		<i>Eriosoma ulmi</i>
37	118	23	26		38	8	16	13	4	5		<i>Hyalopterus pruni</i>
82		10	44		4	44	10	4	3	1		<i>Hyperomyzus lactucae</i>
482	362	185	180		196	90	118	126	45	7		<i>Macrosiphum euphorbiae</i>
10	4	8	8		2	4		1	1			<i>Megoura viciae</i>
1	4	2	4		8		2	1	1			<i>Metopolophium dirhodum</i>
					2							<i>Metopolophium festucae s.l.</i>
395	78	96	556		68	56	502	113	14	8		<i>Myzus ascalonicus</i>
2	10	1	2		2	2		6	1	1		<i>Myzus certus</i>
5	10	3	8		28	4	16	7	5	2		<i>Myzus ornatus</i>
									1			<i>Myzus persicae</i> grp.
6	2		2				4	1				<i>Nasonovia ribisnigri</i>
29	142	139	244		2	2						<i>Pemphigus</i> spp.
14	2	3	8		22	90	76	28	42	38		<i>Pentatrichopus fragaefolii</i>
825	244	443	982		10	4	12	2	4	19		<i>Phorodon humuli</i>
1744	2734	1812	2422		96	676	1018	456	425	389		<i>Phyllaphis fagi</i>
22	34	21	10		5656	2040	1786	817	1500	393		<i>Rhopalosiphum insertum</i>
					6	10	12	5	2	3		<i>Rhopalosiphum maidis</i>
												<i>Rhopalosiphum padi</i>
												<i>Rhopalosiphum padi</i>
												<i>Sitobion avenae</i>
												<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1982, 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>	13	27	1	3	1	9	3					3
<i>Amphorophora rubi</i>		5	1									1
<i>Aphis fabae</i> grp.	16	314	13	11	6	67	10	21	77	35	60	82
<i>Aphis</i> spp.		14	2	2	1	37	4	19	18	19	58	12
<i>Aulacorthum solani</i>												
<i>Brachycaudus helichrysi</i>	22	77	7	2	5	7	15	5	16	1	2	8
<i>Brevicoryne brassicae</i>							3	2	1	2	156	
<i>Cavariella aegopodii</i>	6	4				3				1	2	
<i>Cinara</i> spp.	13	3	1		3	2						
<i>Drepanosiphum platanoidis</i>	249	384	28	77	12	61	18	73	284	27	138	261
<i>Dysaphis plantaginea</i>												
<i>Elatobium abietinum</i>												
<i>Eriosoma ulmi</i>		1								1		
<i>Hyalopterus pruni</i>	1	79	2	2	1		1	2	14	6	8	1
<i>Hyperomyzus lactucae</i>		6			1					1		1
<i>Macrosiphum euphorbiae</i>	1	57	1	1	1	4	17	2	3			4
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>	6	69	8	14	3	5	4		5		4	1
<i>Metopolophium festucae</i> s.l.		4				4	2		2			
<i>Myzus ascalonicus</i>												
<i>Myzus certus</i>							1					
<i>Myzus ornatus</i>							2					1
<i>Myzus persicae</i> grp.	7	25	1	6	2	4	3	1	6	3	6	12
<i>Nasonovia ribisnigri</i>												
<i>Pemphigus</i> spp.	12	17	8		11	90	15	5	131	35	10	63
<i>Pentatrichopus fragaefolii</i>									1			
<i>Phorodon humuli</i>		1					1					
<i>Phyllaphis fagi</i>		1										
<i>Rhopalosiphum insertum</i>	3	12	19	17	31	49	107	28	252	114	26	1
<i>Rhopalosiphum maidis</i>												2
<i>Rhopalosiphum padi</i>	313	1532	441	491	226	191	265	74	789	248	562	141
<i>Sitobion avenae</i>	17	431	57	42	25	115	33	24	39	8	6	16
<i>Sitobion fragariae</i>		1	1		1	5		1	2	1		

## ROTHAMSTED INSECT SURVEY

1(f)

of aphids of economic, or other, interest reported in the *Weekly Bulletin* 1982  
13 August to 9 September 1982

Broom's Barn	Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Wye, Kent	Littlehampton	Starcross	Rosewarne	Sites	Species
2					4	4	6	1	4	3		<i>Acyrtosiphon pisum</i>
26	108	24	20		76	8	6	2	7	38		<i>Amphorophora rubi</i>
6	76	13	38		18	16	16	13	5	12		<i>Aphis fabae</i> grp.
									1			<i>Aphis</i> spp.
9	6	33	2		2	4	2	7	6			<i>Aulacorthum solani</i>
5	14	7	6		4	6	6	3	7	5		<i>Brachycaudus helichrysi</i>
4		3			8	2						<i>Brevicoryne brassicae</i>
	2	1						1				<i>Cavariella aegopodii</i>
176	20	71	72		202	22	98	23	105	119		<i>Cinara</i> spp.
						2						<i>Drepanosiphum platanoidis</i>
1												<i>Dysaphis plantaginea</i>
9	4	6	18		26	4	18	11	20	2		<i>Elatobium abietinum</i>
					2				2			<i>Eriosoma ulmi</i>
1	4		4						2			<i>Hyalopterus pruni</i>
5	2	1			2		2		1			<i>Hyperomyzus lactucae</i>
	2											<i>Macrosiphum euphorbiae</i>
												<i>Megoura viciae</i>
												<i>Metopolophium dirhodum</i>
												<i>Metopolophium festucae s.l.</i>
			4						1			<i>Myzus ascalonicus</i>
												<i>Myzus certus</i>
2	14	1	4		2	2	4	5	11	1		<i>Myzus ornatus</i>
							2					<i>Myzus persicae</i> grp.
22	12	7	8		20	14	18	8	26			<i>Nasonovia ribisnigri</i>
					2							<i>Pemphigus</i> spp.
	182						52					<i>Pentatrachopus fragaefolii</i>
												<i>Phorodon humuli</i>
6	66	35	28		12	22	9	10	13	23		<i>Phyllaphis fagi</i>
2								3	3			<i>Rhopalosiphum insertum</i>
156	374	98	120		378	116	138	152	289	169		<i>Rhopalosiphum maidis</i>
3	24	10	12		16	4	16	4	12	8		<i>Rhopalosiphum padi</i>
2	2							1				<i>Sitobion avenae</i>
												<i>Sitobion fragariae</i>



ROTHAMSTED REPORT FOR 1982, PART 2

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

Sites	Elgin	Dundee	Edinburgh	Pathhead	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Kirton	Shardlow	Aberystwyth
<i>Acyrtosiphon pisum</i>		1			1				2		2	2
<i>Amphorophora rubi</i>												
<i>Aphis fabae</i> grp.	7	46	12	209	34	21	21	31	61	41	50	197
<i>Aphis</i> spp.		2	1	8		55	5	13	82	31	38	38
<i>Aulacorthum solani</i>							1					
<i>Brachycaudus helichrysi</i>	26	25	25	162	22	20	16	18	32	39	32	17
<i>Brevicoryne brassicae</i>				1		5	1	10	17	38	226	1
<i>Cavariella aegopodii</i>		1		9	2	4			4	1		1
<i>Cinara</i> spp.	2	1	1	1					2	2		1
<i>Drepanosiphum platanoidis</i>	166	600	104	400	122	281	222	330	1815	172	1102	409
<i>Dysaphis plantaginea</i>										1		1
<i>Elatobium abietinum</i>												
<i>Eriosoma ulmi</i>	1			1	19	3		9		4	4	1
<i>Hyalopterus pruni</i>	2	2		2		3		14	16	16	10	1
<i>Hyperomyzus lactucae</i>		5		2		6	2	11	5	11	12	12
<i>Macrosiphum euphorbiae</i>	1	1	1			3	1	2		4	2	12
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>	3	12		3	2	3			44		4	3
<i>Metopolophium festucae s.l.</i>				1		2				1		8
<i>Myzus ascalonicus</i>				1								
<i>Myzus certus</i>	1									1		
<i>Myzus ornatus</i>		2	1	3			1					1
<i>Myzus persicae</i> grp.	3	17	2	13	13	5	1	36	16	33	26	41
<i>Nasonovia ribisnigri</i>			1					5	2		4	4
<i>Pemphigus</i> spp.	76	100	99	568	299	123	54	38	204	386	116	156
<i>Pentatrichopus fragaefolii</i>												
<i>Phorodon humuli</i>											4	
<i>Phyllaphis fagi</i>				1					2			
<i>Rhopalosiphum insertum</i>	80	204	258	730	553	203	1427	719	10586	229	702	432
<i>Rhopalosiphum maidis</i>							1			2		6
<i>Rhopalosiphum padi</i>	941	2828	3063	6987	1471	1536	1627	1263	22707	3178	13936	3618
<i>Sitobion avenae</i>	2	3	1	5	1	4	1	2	4	3		9
<i>Sitobion fragariae</i>						3	1		13		4	3

## ROTHAMSTED INSECT SURVEY

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of aphids of economic, or other, interest reported in the Weekly Bulletin 1982  
10 September to 7 October 1982

										Sites	
Broom's Barn	Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Wye, Kent	Littlehampton	Starcross	Rosewarne	Species
2	5	2	4		8	2		3	7	4	<i>Acyrtosiphon pisum</i>
54	74	18	38		62	10	4	1	22	33	<i>Amphorophora rubi</i>
12	28	8	40		44	18	44	10	21	22	<i>Aphis fabae</i> grp.
	1								2		<i>Aphis</i> spp.
43	33	67	46		20	24	10	31	13	3	<i>Aulacorthum solani</i>
26	22	5	28		4	10	10	7	18	12	<i>Brachycaudus helichrysi</i>
6		1	2		2			1			<i>Brevicoryne brassicae</i>
			2				4			1	<i>Cavariella aegopodii</i>
562	101	503	296		478	26	246	94	198	1414	<i>Cinara</i> spp.
12	6	8	22		8			1			<i>Drepanosiphum platanoidis</i>
											<i>Dysaphis plantaginea</i>
	1	3									<i>Elatobium abietinum</i>
11	2	2	20		16	12	26	9	18	1	<i>Eriosoma ulmi</i>
11	3	2	12		16	2		3	4		<i>Hyalopterus pruni</i>
1	9	2	10		6			3	10		<i>Hyperomyzus lactucae</i>
									1		<i>Macrosiphum euphorbiae</i>
1	2				4		4	2			<i>Megoura viciae</i>
	1								2	1	<i>Metopolophium dirhodum</i>
									1		<i>Metopolophium festucae</i> s.l.
			2					1		2	<i>Myzus ascalonicus</i>
									2		<i>Myzus certus</i>
32	31	8	20		14	16	62	51	42	19	<i>Myzus ornatus</i>
10	3					6	4	1	7		<i>Myzus persicae</i> grp.
56	107	71	100		414	74	62	48	129	13	<i>Nasonovia ribisnigri</i>
					2						<i>Pemphigus</i> spp.
2	997		6			10	490				<i>Pentatrachopus fragaefolii</i>
											<i>Phorodon humuli</i>
128	739	337	82		452	160	88	84	112	74	<i>Phyllaphis fagi</i>
2	2	3	2				4	2	8	1	<i>Rhopalosiphum insertum</i>
1274	6609	1611	1540		17048	1698	3902	3650	2877	1078	<i>Rhopalosiphum maidis</i>
6	8	7	14		28	8	10	21	37	8	<i>Rhopalosiphum padi</i>
2	1				2	4		1	3		<i>Sitobion avenae</i>
											<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1982, 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								20		4
<i>Aphis</i> spp.							1	6	1	28	5	4
<i>Aulacorthum solani</i>									2	7	1	
<i>Brachycaudus helichrysi</i>		3	1	1	1		2	1	3	4	3	1
<i>Brevicoryne brassicae</i>									2	2	1	
<i>Cavariella aegopodii</i>	1	1		1	2		1		5		6	1
<i>Cinara</i> spp.				1					1		2	
<i>Drepanosiphum platanoidis</i>	11	94	79	53	113	7	95	50	154	144	262	82
<i>Dysaphis plantaginea</i>								1		1		
<i>Elatobium abietinum</i>												
<i>Eriosoma ulmi</i>		1						1	2	5	6	4
<i>Hyalopterus pruni</i>										1		
<i>Hyperomyzus lactucae</i>				1	1		1	5		11	9	1
<i>Macrosiphum euphorbiae</i>					1		1				3	1
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>					1		2	2	30	4	3	
<i>Metopolophium festucae s.l.</i>	1			1				1				5
<i>Myzus ascalonicus</i>	2				1						2	
<i>Myzus certus</i>	2	2								1		
<i>Myzus ornatus</i>											1	
<i>Myzus persicae</i> grp.	3	1	4	12	5			7	3	38	21	5
<i>Nasonovia ribisnigri</i>								2	4	4	3	
<i>Pemphigus</i> spp.	19	2		3	41	1	6	8	62	61	69	2
<i>Pentatrichopus fragaefolii</i>												
<i>Phorodon humuli</i>										2		
<i>Phyllaphis fagi</i>								1	1			1
<i>Rhopalosiphum insertum</i>	31	38	31	25	390	13	523	233	8708	244	505	267
<i>Rhopalosiphum maidis</i>							1					1
<i>Rhopalosiphum padi</i>	91	504	417	237	1494	50	994	547	2652	2475	4005	560
<i>Sitobion avenae</i>	2	4		1	3					5	1	1
<i>Sitobion fragariae</i>								3	15	4	10	9

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Broom's Barn	Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Wye, Kent	Littlehampton	Starcross	Rosewarne	Sites	Species
						1		1	1			<i>Acyrtosiphon pisum</i>
55		1	1		1			1	2	2		<i>Amphorophora rubi</i>
1	3	4	10		3	2	5	5	2	1		<i>Aphis fabae</i> grp.
	2		2		6	1	3	5	5	1		<i>Aphis</i> spp.
4	1	6	1			2	5	2	2	1		<i>Aulacorthum solani</i>
	1	1				4			1			<i>Brachycaudus helichrysi</i>
19	3				1		1	1	1	1		<i>Brevicoryne brassicae</i>
1					1	1		1	1	1		<i>Cavariella aegopodii</i>
55	63	79	23		102	76	27	10	44	9		<i>Cinara</i> spp.
1	1											<i>Drepanosiphum platanoidis</i>
	22	9			2	4	7	1		1		<i>Dysaphis plantaginea</i>
	1					2		2				<i>Elatobium abietinum</i>
8	3	4	4		2	4	6	3	1			<i>Eriosoma ulmi</i>
1			3			2						<i>Hyalopterus pruni</i>
	3	1	3									<i>Hyperomyzus lactucae</i>
3						2						<i>Macrosiphum euphorbiae</i>
								1	1			<i>Megoura viciae</i>
					1							<i>Metopolophium dirhodum</i>
					1							<i>Metopolophium festucae s.l.</i>
		2					1					<i>Myzus ascalonicus</i>
67	8	7	12		7	11	27	11	8	3		<i>Myzus certus</i>
2	2		1		2	4	2	3	3			<i>Myzus ornatus</i>
87	75	43	28		187	66	39	47	26	4		<i>Myzus persicae</i> grp.
	1											<i>Nasonovia ribisnigri</i>
	6				3	2	10		3			<i>Pemphigus</i> spp.
					2		1					<i>Pentatrachopus fragaefolii</i>
261	629	392	125		207	328	53	113	208	106		<i>Phorodon humuli</i>
1	1						4	1	1	1		<i>Phyllaphis fagi</i>
1434	2881	926	938		3104	1058	1692	805	881	111		<i>Rhopalosiphum insertum</i>
4	4	2	4		7	6	2	2	6	1		<i>Rhopalosiphum maidis</i>
6	4	3	3		11	41	4	7	7	4		<i>Rhopalosiphum padi</i>
												<i>Sitobion avenae</i>
												<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1982, PART 2

TABLE  
The Rothamsted Insect Survey—Light Traps: annual records

Pest Species	Year	Reay	Stronchrubie	Inverpolly	Harris	Cromarty	Newton, Elgin	Beinn Eighe	Carbost, Skye	Fort Augustus	Rannoch	Dundee	Rowardennan	East Craigs	Glentress	Newton by the Sea
		415	418	352	349	398	58	350	50	49	29	47	97	261	339	426
<i>Gortyna micacea</i> Rosy Rustic	1980	67	2	33	25	23	156	43	—	—	49	4	12	13	60	—
	1981	233	9	57	72	77	180	92	165	49	123	3	20	12	60	239
<i>Bupalus piniaria</i> Bordered White	1980	0	0	0	0	0	0	1	—	—	0	0	0	0	0	—
	1981	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0
<i>Panolis flammea</i> Pine Beauty	1980	0	0	0	0	0	0	1	—	—	0	0	0	0	0	—
	1981	0	0	0	0	0	0	1	0	4	0	0	0	0	0	0
<i>Cerapteryx graminis</i> Antler Moth	1980	32	82	243	228	10	11	44	—	—	59	3	6	12	34	—
	1981	87	105	123	311	26	24	108	27	58	58	3	1	2	77	45
<i>Erannis aurantiaria</i> Scarce Umber	1980	0	2	85	—	61	14	25	—	—	469	1	178	0	0	—
	1981	0	0	16	0	9	12	0	1	35	30	2	15	0	0	3
<i>Operophtera fagata</i> Northern Winter Moth	1980	0	1	29	—	9	1	2	—	—	72	0	14	0	0	—
	1981	0	0	9	0	6	1	3	0	4	20	1	26	0	2	0
<i>Apamea sordens</i> Rustic Shoulder-knot	1980	0	0	0	0	3	1	0	—	—	0	6	0	19	0	—
	1981	0	0	0	0	2	2	0	0	1	0	3	0	3	0	0
<i>Gortyna flavago</i> Frosted Orange	1980	0	0	0	0	0	12	0	—	—	0	1	0	0	1	—
	1981	0	0	0	0	0	10	0	0	0	0	0	0	0	0	16
<i>Mamestra brassicae</i> Cabbage Moth	1980	0	0	0	0	0	3	0	—	—	0	9	0	2	0	—
	1981	0	0	0	0	0	1	0	0	8	0	20	0	1	2	0
<i>Noctua pronuba</i> Large Yellow Underwing	1980	1	2	8	1	11	17	1	—	—	1	20	3	9	8	—
	1981	1	4	16	2	77	55	13	11	7	0	15	8	4	11	17
<i>Diataraxia oleracea</i> Bright-line Brown-eye	1980	0	0	4	0	1	2	0	—	—	0	1	0	1	0	—
	1981	0	0	3	0	0	4	0	2	0	0	0	0	0	0	2
<i>Euxoa nigricans</i> Garden Dart	1980	0	0	0	0	1	0	0	—	—	0	0	0	5	0	—
	1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Apamea secalis</i> Common Rustic	1980	15	1	1	1	3	73	3	—	—	1	9	3	36	9	—
	1981	22	0	8	5	10	37	5	4	1	0	1	0	21	15	97
<i>Melanchra persicariae</i> Dot Moth	1980	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—
	1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Operophtera brumata</i> Winter Moth	1980	1	0	27	—	4	5	31	—	—	19	5	134	0	3	—
	1981	0	0	5	0	4	4	9	0	6	4	2	56	0	5	1

## ROTHAMSTED INSECT SURVEY

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of moths of economic, or other importance for 1980 and 1981

	Culzean Castle	Auchincruive	Waterside Mains	Kielder	Rochester	Chester le Street	Newton Rigg	Forest in Teesdale	Windermere	Wykeham	Baldersby	Castletown, I.O.M.	Acomb	Harrogate	Hayton	Year	Pest Species
	264	293	338	296	278	39	322	416	323	187	315	306	363	410	291		
23	4	125	28	25	—	—	—	2	49	64	20	3	9	15	1980	<i>Gortyna micacea</i>	
27	7	203	32	55	9	59	2	6	121	79	36	2	29	31	1981	Rosy Rustic	
1	0	0	0	0	—	—	—	2	2	0	0	0	0	0	1980	<i>Bupalus piniaria</i>	
1	0	0	0	0	0	0	0	1	5	0	0	0	0	0	1981	Bordered White	
4	0	0	0	0	—	—	—	0	13	0	0	0	1	0	1980	<i>Panolis flammea</i>	
1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1981	Pine Beauty	
11	8	25	18	10	—	—	—	2	17	3	6	0	2	3	1980	<i>Cerapteryx graminis</i>	
33	8	20	13	32	0	6	38	9	10	0	5	0	3	2	1981	Antler Moth	
0	0	20	24	1	—	—	—	0	5	11	0	4	14	2	1980	<i>Erannis aurantiaria</i>	
4	0	21	23	0	0	0	0	0	8	4	0	2	36	—	1981	Scarce Umber	
1	0	126	89	0	—	—	—	0	4	0	0	0	27	1	1980	<i>Operophtera fagata</i>	
1	0	33	13	0	0	0	1	0	44	0	0	0	27	—	1981	Northern Winter Moth	
1	2	0	0	0	—	—	—	0	3	7	0	5	0	6	1980	<i>Apamea sordens</i>	
0	1	1	0	0	1	2	0	0	1	3	1	0	0	3	1981	Rustic Shoulder-knot	
0	0	4	0	0	—	—	—	0	0	8	0	0	0	3	1980	<i>Gortyna flavago</i>	
0	0	7	0	0	0	0	0	0	1	3	0	0	1	5	1981	Frosted Orange	
0	0	0	0	7	—	—	—	8	2	11	0	1	0	7	1980	<i>Mamestra brassicae</i>	
0	0	0	0	3	10	2	0	6	0	7	0	0	0	0	1981	Cabbage Moth	
19	3	119	4	2	—	—	—	123	33	42	18	5	18	35	1980	<i>Noctua pronuba</i>	
12	7	127	5	14	9	8	5	45	17	11	16	12	13	12	1981	Large Yellow Underwing	
1	1	0	0	1	—	—	—	0	0	3	3	0	0	2	1980	<i>Diataraxia oleracea</i>	
6	0	2	0	0	1	0	0	0	0	2	7	1	1	1	1981	Bright-line Brown-eye	
0	0	0	0	0	—	—	—	0	0	0	0	0	1	0	1980	<i>Euxoa nigricans</i>	
0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1981	Garden Dart	
0	10	12	1	1	—	—	—	29	11	68	37	3	20	21	1980	<i>Apamea secalis</i>	
4	13	5	2	3	29	21	1	24	6	54	70	6	19	15	1981	Common Rustic	
0	0	0	0	0	—	—	—	9	1	0	0	1	0	3	1980	<i>Melanchra persicariae</i>	
0	0	0	0	0	0	0	0	8	0	0	0	0	0	1	1981	Dot Moth	
1	0	102	70	103	—	—	—	5	14	8	29	5	20	13	1980	<i>Operophtera brumata</i>	
1	0	32	22	15	1	0	0	2	2	7	10	7	26	—	1981	Winter Moth	

ROTHAMSTED REPORT FOR 1982, PART 2

TABLE  
The Rothamsted Insect Survey—Light Traps: annual records

Pest Species	Year	Preston	Longridge	Tarleton	Spurn Head	East Didsbury	Bangor	Jodrell Bank	Gleadthorpe	Matlock	Hope	Gibraltar Point	Nantclwyd	Empingham	Wells next the Sea	Shardlow
		288	124	371	131	269	35	337	257	279	380	223	243	280	274	378
<i>Gortyna micacea</i> Rosy Rustic	1980	15	2	12	42	4	0	24	21	5	24	13	28	4	1	9
	1981	12	15	14	21	16	0	50	36	6	19	15	24	3	1	3
<i>Bupalus piniaria</i> Bordered White	1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Panolis flammea</i> Pine Beauty	1980	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cerapteryx graminis</i> Antler Moth	1980	0	1	2	73	0	1	100	8	6	1	14	6	0	0	0
	1981	1	1	0	66	0	0	25	10	0	5	4	6	0	0	0
<i>Erannis aurantiaria</i> Scarce Umber	1980	1	10	0	0	0	0	14	0	0	0	0	7	1	0	0
	1981	0	0	0	1	0	0	15	3	1	0	0	4	1	0	1
<i>Operophtera fagata</i> Northern Winter Moth	1980	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0
	1981	0	0	0	0	0	0	1	9	0	0	0	5	0	0	0
<i>Apamea sordens</i> Rustic Shoulder-knot	1980	0	0	1	5	0	0	0	0	0	18	1	4	3	0	0
	1981	0	0	0	2	0	0	0	0	1	22	9	4	0	0	0
<i>Gortyna flavago</i> Frosted Orange	1980	1	0	0	1	1	0	2	12	0	0	0	2	2	0	1
	1981	0	0	0	2	1	0	2	10	0	0	0	7	0	0	0
<i>Mamestra brassicae</i> Cabbage Moth	1980	2	0	9	0	1	2	0	3	7	17	0	0	18	3	2
	1981	1	0	6	1	2	1	0	2	8	7	0	0	2	0	7
<i>Noctua pronuba</i> Large Yellow Underwing	1980	29	6	22	59	5	12	12	6	14	29	15	60	54	6	5
	1981	10	15	5	38	5	4	6	6	62	11	1	14	23	0	6
<i>Diataraxia oleracea</i> Bright-line Brown-eye	1980	2	0	12	41	0	0	0	37	1	2	4	0	2	1	7
	1981	1	0	8	18	0	0	0	12	5	2	1	1	2	0	23
<i>Euxoa nigricans</i> Garden Dart	1980	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	1981	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
<i>Apamea secalis</i> Common Rustic	1980	8	6	10	9	1	3	9	14	51	53	5	23	44	4	10
	1981	14	4	4	29	1	11	13	38	35	83	10	17	27	8	46
<i>Melanchra persicariae</i> Dot Moth	1980	0	0	4	0	0	0	0	1	0	0	0	0	14	0	0
	1981	0	0	0	2	0	0	0	0	0	0	0	0	7	0	2
<i>Operophtera brumata</i> Winter Moth	1980	1	6	0	4	0	0	25	4	0	6	0	36	32	1	1
	1981	0	0	0	4	0	0	12	8	1	4	0	16	17	0	2

## ROTHAMSTED INSECT SURVEY

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of moths of economic, or other importance for 1980 and 1981

	Sutton Bonington	Terrington	Preston Montford	Norwich	Compton Park	Wolverhampton I	Santon Downham	Aberystwyth	Monks Wood	Monks Wood (Ewingswode)	Broom's Barn	Tregaron	Wellesbourne	Waresley	Luddington	Year	Pest Species
	168	381	382	369	424	267	259	340	94	277	88	331	359	360	414		
7	17	21	—	—	—	0	10	13	19	8	4	18	18	10	5	1980	<i>Gortyna micacea</i>
23	15	56	0	55	0	0	9	16	23	9	2	40	9	12	3	1981	Rosy Rustic
0	0	0	—	—	—	0	0	1	0	0	0	0	0	0	0	1980	<i>Bupalus piniaria</i>
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1981	Bordered White
0	0	0	—	—	—	0	69	1	0	1	0	0	0	0	0	1980	<i>Panolis flammea</i>
0	0	0	0	0	0	0	4	0	1	0	0	0	0	0	0	1981	Pine Beauty
0	0	1	—	—	—	0	21	0	1	0	1	165	0	1	0	1980	<i>Cerapteryx graminis</i>
0	0	1	0	1	0	0	2	3	0	0	1	153	0	0	0	1981	Antler Moth
0	0	2	—	—	—	0	4	0	0	74	0	41	0	0	2	1980	<i>Erannis aurantiaria</i>
1	0	1	6	0	0	0	1	0	0	111	0	50	0	0	0	1981	Scarce Umber
0	0	1	—	—	—	0	0	0	0	127	0	53	0	0	0	1980	<i>Operophtera fagata</i>
0	0	0	0	0	0	0	5	0	7	110	0	72	0	3	0	1981	Northern Winter Moth
3	4	3	—	—	—	0	4	0	6	3	0	0	0	28	1	1980	<i>Apamea sordens</i>
3	2	0	1	1	0	0	2	0	0	1	0	0	3	6	3	1981	Rustic Shoulder-knot
1	2	3	—	—	—	0	1	1	5	6	0	10	0	7	0	1980	<i>Gortyna flavago</i>
2	3	3	0	0	0	0	4	0	1	2	1	5	3	5	2	1981	Frosted Orange
5	10	3	—	—	—	0	12	1	0	0	3	0	2	6	11	1980	<i>Mamestra brassicae</i>
3	7	1	0	0	0	0	3	1	1	0	3	0	2	9	7	1981	Cabbage Moth
28	3	24	—	—	—	2	2	36	6	13	0	50	1	8	11	1980	<i>Noctua pronuba</i>
54	2	10	11	7	2	2	0	22	3	59	0	31	1	7	5	1981	Large Yellow Underwing
16	15	10	—	—	—	4	0	1	0	1	2	1	2	19	1	1980	<i>Diataraxia oleracea</i>
19	8	3	1	2	0	0	0	0	0	0	2	3	4	17	2	1981	Bright-line Brown-eye
1	0	0	—	—	—	9	2	0	0	7	1	0	0	5	0	1980	<i>Euxoa nigricans</i>
0	0	0	0	1	0	0	0	0	0	0	0	0	0	4	0	1981	Garden Dart
45	42	52	—	—	—	3	14	18	8	4	15	7	12	13	13	1980	<i>Apamea secalis</i>
145	9	247	39	4	3	3	3	27	37	11	9	4	27	41	20	1981	Common Rustic
3	6	1	—	—	—	0	7	1	0	0	0	0	0	10	5	1980	<i>Melanchra persicariae</i>
0	0	0	0	0	0	0	2	0	2	0	2	0	0	3	5	1981	Dot Moth
4	0	12	—	—	—	0	6	14	2	285	0	196	2	2	0	1980	<i>Operophtera brumata</i>
5	0	15	26	0	0	0	2	1	1	107	0	102	2	3	0	1981	Winter Moth



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Pest Species	Year	Cockayne Hatley 336	Hereford 212	Rhandirmwyn 346	Trelech 233	Eaton Bray 412	Rothamsted (Barnfield) 1	Rothamsted (Allotments) 34	Rothamsted (Geescroft) 22	Wickham Bishops 120	Writtle 87	Chigwell Row 305	Westonbirt 292	Hurley 180	Cardiff 347	Sheppey 370
<i>Gortyna micacea</i> Rosy Rustic	1980	11	10	29	20	0	21	6	11	16	3	0	1	13	1	6
	1981	9	27	17	64	6	11	47	5	24	3	1	4	7	1	2
<i>Bupalus piniaria</i> Bordered White	1980	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
	1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Panolis flammea</i> Pine Beauty	1980	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cerapteryx graminis</i> Antler Moth	1980	0	1	19	2	1	0	0	0	2	0	0	0	1	0	2
	1981	0	0	8	4	0	0	1	0	0	0	0	0	0	0	0
<i>Erannis aurantiaria</i> Scarce Umber	1980	0	0	270	0	0	0	0	20	2	4	1	5	1	0	0
	1981	2	0	71	1	1	0	0	35	5	0	0	7	0	0	0
<i>Operophtera fagata</i> Northern Winter Moth	1980	0	0	10	0	0	0	0	0	0	0	1	4	1	0	0
	1981	0	0	2	0	0	0	0	0	0	0	2	6	0	0	0
<i>Apamea sordens</i> Rustic Shoulder-knot	1980	4	0	3	0	5	6	1	0	1	0	0	0	0	5	0
	1981	2	0	1	0	3	5	2	2	0	2	0	0	0	7	0
<i>Gortyna flavago</i> Frosted Orange	1980	2	0	2	6	2	1	0	0	0	3	0	1	7	0	1
	1981	1	2	4	3	3	0	0	1	2	0	0	0	1	0	0
<i>Mamestra brassicae</i> Cabbage Moth	1980	1	0	1	0	2	2	0	2	0	5	23	0	0	4	4
	1981	1	1	0	0	2	0	2	1	0	6	5	0	0	0	10
<i>Noctua pronuba</i> Large Yellow Underwing	1980	6	3	63	32	2	66	13	244	4	5	17	47	20	29	0
	1981	1	1	47	43	3	40	2	203	5	5	2	38	5	20	7
<i>Diataraxia oleracea</i> Bright-line Brown-eye	1980	21	0	4	0	5	25	1	3	3	11	3	0	1	10	14
	1981	7	0	0	0	6	9	0	3	2	5	2	0	1	6	12
<i>Euxoa nigricans</i> Garden Dart	1980	3	0	0	0	0	2	1	5	0	1	11	0	0	0	0
	1981	1	0	0	0	0	0	0	9	0	0	0	0	0	0	0
<i>Apamea secalis</i> Common Rustic	1980	15	25	6	12	12	179	23	42	15	32	9	8	10	40	13
	1981	64	76	8	17	31	251	32	49	14	17	20	11	71	68	40
<i>Melanchnra persicariae</i> Dot Moth	1980	0	0	1	0	4	0	0	1	2	3	1	0	0	1	1
	1981	0	0	0	0	4	1	0	2	2	0	0	0	0	0	4
<i>Operophtera brumata</i> Winter Moth	1980	1	0	319	17	1	1	0	101	16	3	5	11	0	0	0
	1981	1	1	143	12	6	3	0	135	10	0	3	11	15	1	1

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	Long Ashton	Stratfield Mortimer	Wisley	Alice Holt	Haslemere	Winchester	Great Torrington	Lydd	Denny Lodge	Starcross	Yarner Wood	Slapton Ley	Rosewarne	Guernsey	Jersey	Year	Pest Species
—	417	16	289	46	219	379	186	366	368	149	266	67	114	252	146	1980	<i>Gortyna micacea</i>
4	0	0	1	0	5	6	76	4	1	60	7	—	4	1	2	1981	Rosy Rustic
—	0	0	0	0	0	0	—	0	0	0	0	—	0	0	0	1980	<i>Bupalus piniaria</i>
0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1981	Bordered White
—	2	3	3	0	0	0	—	0	1	0	2	—	1	2	0	1980	<i>Panolis flammea</i>
0	0	1	2	0	0	0	4	0	1	0	0	0	0	0	0	1981	Pine Beauty
—	0	0	10	0	1	—	7	0	1	2	—	0	0	0	0	1980	<i>Cerapteryx graminis</i>
0	0	0	13	0	0	0	4	0	0	1	0	0	0	0	0	1981	Antler Moth
—	9	1	—	11	0	—	0	3	0	102	—	0	0	0	0	1980	<i>Erannis aurantiaria</i>
0	32	7	16	6	0	—	0	48	0	241	0	0	0	0	0	1981	Scarce Umber
—	0	1	—	1	1	—	0	4	0	14	—	0	0	0	0	1980	<i>Operophtera fagata</i>
0	0	5	2	2	0	—	0	18	0	7	0	0	0	0	0	1981	Northern Winter Moth
—	0	4	0	0	3	—	0	0	0	0	—	0	0	0	0	1980	<i>Apamea sordens</i>
0	0	3	1	0	5	0	0	0	0	0	0	0	0	0	0	1981	Rustic Shoulder-knot
—	1	0	0	0	0	—	0	0	0	6	—	0	0	0	1	1980	<i>Gortyna flavago</i>
0	1	0	0	0	0	0	0	0	0	8	0	0	0	0	1	1981	Frosted Orange
—	1	7	0	2	1	—	0	0	0	0	—	8	11	8	8	1980	<i>Mamestra brassicae</i>
5	1	12	0	1	4	5	0	1	0	0	8	14	4	7	7	1981	Cabbage Moth
—	28	5	21	9	34	—	2	4	4	74	—	19	2	3	3	1980	<i>Noctua pronuba</i>
7	21	5	7	12	28	14	3	3	0	26	11	4	2	1	1	1981	Large Yellow Underwing
—	1	0	0	0	12	—	0	1	3	4	—	4	18	6	6	1980	<i>Diatraxia oleracea</i>
2	1	2	0	3	9	3	0	0	0	0	5	15	11	4	4	1981	Bright-line Brown-eye
—	1	0	0	0	0	—	0	0	0	0	—	0	0	0	0	1980	<i>Euxoa nigricans</i>
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1981	Garden Dart
—	7	21	1	20	39	—	24	5	19	13	—	14	12	1	1	1980	<i>Apamea secalis</i>
41	23	53	14	16	122	44	10	5	12	25	15	13	23	10	10	1981	Common Rustic
—	0	1	0	1	0	—	5	0	0	0	—	2	0	0	0	1980	<i>Melanchra persicariae</i>
4	0	3	0	1	0	0	0	0	0	0	7	0	0	0	0	1981	Dot Moth
—	88	9	—	23	1	—	0	19	3	76	—	2	7	1	1	1980	<i>Operophtera brumata</i>
0	200	4	15	16	0	—	0	67	5	137	3	1	4	1	1	1981	Winter Moth

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Pest Species	Year	Reay	Stronchrubie	Inverpolly	Harris	Cromarty	Newton, Elgin	Beinn Eighe	Carbost, Skye	Fort Augustus	Rannoch	Dundee	Rowardennan	East Craigs	Glentress	Newton by the Sea
<i>Abraxas grossulariata</i>	1980	0	34	16	8	0	0	46	—	—	0	0	0	0	2	—
Magpie Moth	1981	0	39	27	5	0	1	106	3	0	0	0	0	0	0	1
<i>Agrotis segetum</i>	1980	0	0	0	0	0	0	0	—	—	0	3	0	1	1	—
Turnip Moth	1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Erannis defoliaria</i>	1980	0	0	8	—	11	3	13	—	—	26	2	1453	0	4	—
Mottled Umber	1981	1	0	1	0	1	1	22	2	4	3	3	64	1	4	0
<i>Phlogophora meticulosa</i>	1980	1	0	3	0	0	0	0	—	—	0	0	0	0	0	—
Angle Shades	1981	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Alsophila aescularia</i>	1980	0	0	0	0	0	2	0	—	—	0	0	—	0	0	—
March Moth	1981	0	0	0	—	3	7	0	0	2	0	2	54	0	1	3
<i>Hepialus humuli</i>	1980	0	0	0	1	0	0	0	—	—	0	0	7	0	1	—
Ghost Swift	1981	0	1	0	0	0	1	0	1	0	0	0	0	3	1	0
<i>Hepialus lupulina</i>	1980	0	0	4	0	0	0	0	—	—	3	1	0	2	1	—
Common Swift	1981	0	0	0	0	0	1	0	0	0	10	0	0	0	0	1
<i>Agrotis ipsilon</i>	1980	0	0	1	0	0	1	0	—	—	0	0	0	0	0	—
Dark Sword Grass	1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euproctis chrysorrhoea</i>	1980	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—
Brown-tail	1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrotis exclamationis</i>	1980	0	0	0	0	0	1	4	—	—	0	2	0	51	2	—
Heart and Dart	1981	0	0	0	0	0	1	3	0	1	0	1	0	13	2	3
<i>Plusia gamma</i>	1980	3	3	8	1	13	1	10	—	—	3	13	1	1	5	—
Silver Y	1981	0	0	0	0	0	1	0	0	0	0	1	0	0	0	3
<i>Laphygma exigua</i>	1980	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—
Small Mottled Willow	1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nycterosea obstipata</i>	1980	0	1	0	0	0	0	0	—	—	0	0	0	0	1	—
The Gem	1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nomophila noctuella</i>	1980	0	0	0	1	0	1	1	—	—	0	5	2	0	0	—
Rush Veneer Pearl	1981	0	0	0	0	0	0	0	0	0	0	—	0	0	0	0
<i>Plutella maculipennis</i>	1980	15	96	0	61	0	7	0	—	—	0	2534	0	11	0	—
Diamond-back Moth	1981	14	0	6	5	7	49	0	0	0	0	—	0	8	1	14
<i>Udea ferrugalis</i>	1980	0	1	0	5	17	24	1	—	—	0	49	19	0	18	—
Rusty Dot Pearl	1981	0	0	0	0	0	0	0	0	0	0	—	0	0	0	0

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	Culzean Castle	Auchincruive	Waterside Mains	Kielder	Rochester	Chester le Street	Newton Rigg	Forest in Teesdale	Windermere	Wykeham	Baldersby	Castletown, I.O.M.	Acomb	Harrogate	Hayton	Year	Pest Species
	264	293	338	296	278	39	322	416	323	187	315	306	363	410	291		
	0	0	0	0	0	—	—	—	0	4	3	7	9	0	6	1980	<i>Abraxas grossulariata</i>
	9	0	0	0	0	11	3	0	0	1	10	22	11	3	11	1981	Magpie Moth
	0	1	0	0	0	—	—	—	1	0	1	1	0	0	0	1980	<i>Agrotis segetum</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1981	Turnip Moth
	3	0	251	16	6	—	—	—	2	21	8	2	2	8	5	1980	<i>Erannis defoliaria</i>
	16	0	63	11	0	8	0	0	1	56	4	3	1	6	—	1981	Mottled Umber
	0	0	5	0	2	—	—	—	11	1	2	12	0	0	1	1980	<i>Phlogophora meticulosa</i>
	0	0	3	0	1	1	0	0	24	0	3	8	0	1	3	1981	Angle Shades
	14	0	19	0	0	—	—	—	2	12	8	0	0	27	11	1980	<i>Alsophila aescularia</i>
	3	0	44	0	1	3	7	0	2	16	9	0	0	23	1	1981	March Moth
	0	0	0	0	0	—	—	—	0	1	0	0	0	0	3	1980	<i>Hepialus humuli</i>
	0	0	0	0	2	0	1	0	0	0	0	0	0	0	3	1981	Ghost Swift
	0	0	0	0	0	—	—	—	0	0	17	0	1	64	25	1980	<i>Hepialus lupulina</i>
	0	0	0	6	0	0	2	0	0	0	3	0	0	33	3	1981	Common Swift
	0	0	2	0	0	—	—	—	0	0	0	8	0	0	0	1980	<i>Agrotis ipsilon</i>
	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1981	Dark Sword Grass
	0	0	0	0	0	—	—	—	0	0	0	0	0	0	0	1980	<i>Euproctis chrysorrhoea</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1981	Brown-tail
	16	4	14	0	1	—	—	—	44	10	18	63	37	31	23	1980	<i>Agrotis exclamationis</i>
	3	2	0	1	0	1	1	0	21	3	4	40	8	11	6	1981	Heart and Dart
	12	0	60	6	1	—	—	—	2	7	103	56	54	1	47	1980	<i>Plusia gamma</i>
	1	0	2	0	1	2	2	0	0	1	22	3	19	1	13	1981	Silver Y
	0	0	0	0	0	—	—	—	0	0	0	0	0	0	0	1980	<i>Laphygma exigua</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1981	Small Mottled Willow
	1	0	0	0	0	—	—	—	0	0	0	0	0	0	0	1980	<i>Nycterosea obstipata</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1981	The Gem
	9	2	0	0	0	—	—	—	0	0	0	1	0	0	—	1980	<i>Nomophila noctuella</i>
	0	—	—	0	0	0	0	0	0	0	0	0	0	0	0	1981	Rush Veneer Pearl
	7	647	0	2	0	—	—	—	4	196	225	0	869	0	—	1980	<i>Plutella maculipennis</i>
	0	—	—	0	0	0	3	0	0	27	64	0	42	0	11	1981	Diamond-back Moth
	179	13	116	64	0	—	—	—	82	7	106	0	13	0	—	1980	<i>Udea ferrugalis</i>
	0	—	—	0	0	0	0	0	0	0	0	0	0	0	0	1981	Rusty Dot Pearl

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<i>Abraxas grossulariata</i>	1980	1	1	4	0	1	0	0	0	15	28	0	3	25	1	3
Magpie Moth	1981	3	1	7	2	0	0	0	4	15	27	0	6	33	5	2
<i>Agrotis segetum</i>	1980	0	0	1	1	0	0	0	16	0	1	0	0	4	1	2
Turnip Moth	1981	0	0	0	0	0	0	0	2	0	0	0	0	5	1	0
<i>Erannis defoliaria</i>	1980	6	22	0	1	0	0	99	0	0	9	0	30	3	0	0
Mottled Umber	1981	0	7	0	0	0	0	55	4	0	11	1	21	3	0	0
<i>Phlogophora meticulosa</i>	1980	1	0	4	4	0	2	1	0	2	2	1	1	19	1	0
Angle Shades	1981	4	1	9	2	1	1	3	2	1	0	5	3	8	1	0
<i>Alsophila aescularia</i>	1980	7	7	2	0	1	0	18	8	3	2	4	90	4	2	6
March Moth	1981	0	7	0	0	0	1	32	4	1	5	0	66	4	1	7
<i>Hepialus humuli</i>	1980	1	0	2	0	1	0	2	1	0	1	0	0	0	1	0
Ghost Swift	1981	0	0	2	0	0	0	0	0	0	4	0	0	1	1	0
<i>Hepialus lupulina</i>	1980	0	1	0	42	4	0	2	46	6	5	7	1	99	15	18
Common Swift	1981	2	1	0	41	4	0	4	10	1	10	0	0	42	3	2
<i>Agrotis ipsilon</i>	1980	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Dark Sword Grass	1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Euproctis chryorrhoea</i>	1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brown-tail	1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrotis exclamationis</i>	1980	5	14	18	52	6	19	24	67	12	125	73	83	150	10	212
Heart and Dart	1981	3	7	2	22	9	2	7	17	2	16	38	6	44	15	38
<i>Plusia gamma</i>	1980	41	3	21	79	0	2	10	10	8	89	63	39	41	5	23
Silver Y	1981	2	0	4	15	0	0	2	1	2	5	2	3	9	3	4
<i>Laphygma exigua</i>	1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Mottled Willow	1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nycterosea obstipata</i>	1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
The Gem	1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nomophila noctuella</i>	1980	5	0	0	1	0	0	0	1	0	0	1	1	0	0	1
Rush Veneer Pearl	1981	—	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plutella maculipennis</i>	1980	222	4	1	600	0	6	0	236	76	3	0	0	10	0	534
Diamond-back Moth	1981	—	0	0	91	0	0	0	14	12	1	0	0	8	0	154
<i>Udea ferrugalis</i>	1980	117	10	1	0	0	1	0	8	0	71	0	38	0	0	0
Rusty Dot Pearl	1981	—	0	0	0	0	0	0	0	0	0	0	0	0	0	2

ROTHAMSTED INSECT SURVEY

2(e)

of moths of economic, or other importance for 1980 and 1981

	Sutton Bonington	Terrington	Preston Montford	Norwich	Compton Park	Wolverhampton I	Santon Downham	Aberystwyth	Monks Wood	Monks Wood (Ewingswode)	Broom's Barn	Tregaron	Wellesbourne	Waresley	Luddington	Year	Pest Species
	168	381	382	369	424	267	259	340	94	277	88	331	359	360	414		
	2	1	5	—	—	0	1	7	12	107	1	18	1	18	1	1980	<i>Abraxas grossulariata</i>
	3	1	6	1	1	0	0	10	23	137	1	32	1	37	5	1981	Magpie Moth
	2	2	0	—	—	1	0	0	0	4	6	1	0	5	14	1980	<i>Agrotis segetum</i>
	1	0	0	0	0	0	0	0	0	0	3	1	0	3	4	1981	Turnip Moth
	1	0	26	—	—	0	2	13	0	480	0	264	0	1	0	1980	<i>Erannis defoliaria</i>
	1	0	7	4	0	0	0	3	0	185	0	231	1	2	0	1981	Mottled Umber
	2	3	0	—	—	0	3	1	2	8	7	7	0	4	1	1980	<i>Phlogophora meticulosa</i>
	4	2	3	3	0	1	2	1	1	21	0	11	0	2	0	1981	Angle Shades
	15	3	29	—	—	0	17	5	7	127	7	99	0	27	2	1980	<i>Alsophila aescularia</i>
	7	1	28	1	0	0	12	9	3	—	4	109	1	28	2	1981	March Moth
	2	0	2	—	—	0	2	0	1	0	0	0	0	0	0	1980	<i>Hepialus humuli</i>
	0	1	4	0	0	0	0	0	0	0	0	0	3	0	0	1981	Ghost Swift
	92	21	2	—	—	0	1	0	74	119	6	0	18	3	3	1980	<i>Hepialus lupulina</i>
	49	14	0	107	2	0	0	0	7	17	0	0	2	4	0	1981	Common Swift
	0	0	0	—	—	0	0	0	0	0	0	1	0	0	0	1980	<i>Agrotis ipsilon</i>
	0	0	1	0	0	0	0	0	0	0	0	2	0	0	1	1981	Dark Sword Grass
	0	0	0	—	—	0	0	0	0	0	0	0	0	0	0	1980	<i>Euproctis chrysorrhoea</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1981	Brown-tail
	334	29	133	—	—	2	23	34	40	13	25	34	35	120	234	1980	<i>Agrotis exclamationis</i>
	48	10	36	8	47	1	2	8	22	1	27	24	13	46	51	1981	Heart and Dart
	6	2	9	—	—	0	19	14	12	34	11	28	1	17	4	1980	<i>Plusia gamma</i>
	0	1	2	1	0	0	3	0	0	5	2	5	0	8	1	1981	Silver Y
	0	0	0	—	—	0	0	0	0	0	0	0	0	0	0	1980	<i>Laphygma exigua</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1981	Small Mottled Willow
	0	0	0	—	—	0	0	1	0	0	0	1	0	0	0	1980	<i>Nycterosea obstipata</i>
	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1981	The Gem
	0	0	4	—	—	0	0	—	0	0	8	—	0	0	0	1980	<i>Nomophila noctuella</i>
	0	0	0	0	0	0	0	—	0	0	0	—	0	0	0	1981	Rush Veneer Pearl
	19	128	51	—	—	0	0	—	162	2	19	—	389	88	129	1980	<i>Plutella maculipennis</i>
	3	44	7	0	0	0	4	—	100	0	2	—	114	17	77	1981	Diamond-back Moth
	0	0	70	—	—	0	1	—	3	9	4	—	8	0	11	1980	<i>Udea ferrugalis</i>
	0	0	0	0	0	0	0	—	0	0	0	—	0	0	0	1981	Rusty Dot Pearl

ROTHAMSTED REPORT FOR 1982, PART 2

TABLE  
The Rothamsted Insect Survey—Light Traps: annual records

Pest Species	Year	Cockayne Hatley	Hereford	Rhandirmwyn	Trelech	Eaton Bray	Rothamsted (Barnfield)	Rothamsted (Allotments)	Rothamsted (Geescroft)	Wickham Bishops	Writtle	Chigwell Row	Westonbirt	Hurley	Cardiff	Sheppey
<i>Abraxas grossulariata</i> Magpie Moth	1980	1	4	2	20	65	1	1	23	63	5	0	0	0	2	2
	1981	14	25	6	118	155	2	1	47	68	3	0	3	7	1	6
<i>Agrotis segetum</i> Turnip Moth	1980	27	0	0	0	2	15	17	11	3	4	0	0	1	0	2
	1981	5	0	0	0	0	2	6	8	0	0	0	2	0	0	0
<i>Erannis defoliaria</i> Mottled Umber	1980	0	2	1118	1	0	0	0	36	9	0	2	13	7	1	0
	1981	0	0	838	8	1	0	0	20	1	1	0	27	8	0	0
<i>Phlogophora meticulosa</i> Angle Shades	1980	0	1	6	8	1	0	1	9	5	2	3	8	0	2	1
	1981	1	1	13	14	0	1	2	22	2	3	3	8	1	5	2
<i>Alsophila aescularia</i> March Moth	1980	4	19	22	8	4	1	3	58	33	2	0	2	31	0	0
	1981	2	22	51	9	—	3	2	42	33	6	0	8	8	0	0
<i>Hepialus humuli</i> Ghost Swift	1980	0	2	0	0	1	1	1	2	1	0	1	0	0	0	0
	1981	0	1	0	0	0	2	2	1	1	0	1	0	1	0	0
<i>Hepialus lupulina</i> Common Swift	1980	5	0	0	0	77	22	11	16	117	0	18	5	8	28	5
	1981	5	0	0	1	1	7	11	4	92	0	5	1	11	12	2
<i>Agrotis ipsilon</i> Dark Sword Grass	1980	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	1981	0	0	1	4	0	0	0	0	0	0	0	1	0	0	0
<i>Euproctis chryorrhoea</i> Brown-tail	1980	0	0	0	0	0	0	0	0	1	0	0	0	0	0	4
	1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<i>Agrotis exclamationis</i> Heart and Dart	1980	90	79	47	37	95	108	29	42	52	64	34	29	37	27	56
	1981	10	24	6	1	27	21	10	21	7	46	3	2	15	14	27
<i>Plusia gamma</i> Silver Y	1980	7	6	76	22	7	8	3	10	11	11	20	22	5	24	21
	1981	1	0	4	3	1	4	4	3	4	3	4	11	0	5	10
<i>Laphygma exigua</i> Small Mottled Willow	1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nycterosea obstipata</i> The Gem	1980	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	1981	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
<i>Nomophila noctuella</i> Rush Veneer Pearl	1980	0	9	4	0	—	4	2	0	0	0	0	0	0	0	1
	1981	0	0	0	0	—	0	0	0	0	0	0	1	0	0	0
<i>Plutella maculipennis</i> Diamond-back Moth	1980	415	78	1	0	—	580	471	5	0	271	36	0	0	55	202
	1981	111	0	1	0	—	219	138	1	8	22	10	0	57	33	178
<i>Udea ferrugalis</i> Rusty Dot Pearl	1980	1	11	42	3	—	11	2	8	0	1	0	3	5	0	0
	1981	0	0	0	0	—	0	0	0	0	0	0	0	2	0	0

ROTHAMSTED INSECT SURVEY

2(f)

of moths of economic, or other importance for 1980 and 1981

	Long Ashton	Stratfield Mortimer	Wisley	Alice Holt	Haslemere	Winchester	Great Torrington	Lydd	Denny Lodge	Starcross	Yarner Wood	Slapton Ley	Rosewarne	Guernsey	Jersey	Year	Pest Species
—	417	16	289	46	219	379	186	366	368	149	266	67	114	252	146	1980	<i>Abraxas grossulariata</i>
11	23	0	0	0	0	14	—	6	1	7	3	—	4	19	2	1981	Magpie Moth
—	1	0	8	0	0	0	—	1	0	1	0	—	1	1	0	1980	<i>Agrotis segetum</i>
1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1981	Turnip Moth
—	33	15	—	7	1	—	0	26	3	61	—	0	0	1	1980	<i>Erannis defoliaria</i>	
0	39	11	33	7	0	—	2	67	0	55	1	0	1	0	1981	Mottled Umber	
—	2	2	0	1	0	—	3	0	1	14	—	2	0	3	1980	<i>Phlogophora meticulosa</i>	
1	4	2	2	4	4	0	2	2	2	21	7	0	2	0	1981	Angle Shades	
—	9	6	—	6	6	—	1	2	4	33	—	3	0	6	1980	<i>Alsophila aescularia</i>	
4	20	8	21	3	8	13	0	10	4	33	3	2	0	5	1981	March Moth	
—	0	0	0	0	0	—	0	0	0	0	—	0	0	0	1980	<i>Hepialus humuli</i>	
0	0	0	2	0	0	1	0	0	0	0	1	0	0	0	1981	Ghost Swift	
—	9	1	7	0	0	—	21	3	0	0	—	2	2	0	1980	<i>Hepialus lupulina</i>	
0	1	1	2	0	17	0	12	0	1	0	0	0	1	0	1981	Common Swift	
—	0	0	0	0	0	—	0	1	0	2	—	3	0	1	1980	<i>Agrotis ipsilon</i>	
0	0	0	0	0	1	0	0	0	0	2	3	0	0	0	1981	Dark Sword Grass	
—	0	0	0	0	0	—	49	0	0	0	—	0	5	1	1980	<i>Euproctis chryorrhoea</i>	
0	0	0	0	0	0	0	42	0	0	0	0	0	0	0	1981	Brown-tail	
—	26	88	68	49	35	—	52	24	32	36	—	40	23	36	1980	<i>Agrotis exclamationis</i>	
23	17	7	21	11	6	22	31	2	9	9	21	27	19	17	1981	Heart and Dart	
—	9	12	3	10	18	—	4	2	12	62	—	28	2	16	1980	<i>Plusia gamma</i>	
1	2	1	6	10	10	6	0	1	7	19	8	9	0	15	1981	Silver Y	
—	0	0	0	0	0	—	0	0	0	0	—	0	0	0	1980	<i>Laphygma exigua</i>	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1981	Small Mottled Willow	
—	0	0	0	0	0	—	0	1	0	0	—	4	0	0	1980	<i>Nycterosea obstipata</i>	
1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1981	The Gem	
—	0	1	3	2	0	—	0	—	2	—	—	75	11	12	1980	<i>Nomophila noctuella</i>	
0	0	0	0	0	0	0	0	—	0	—	0	—	0	2	1981	Rush Veneer Pearl	
—	0	206	19	16	0	—	0	—	99	—	—	2010	203	54	1980	<i>Plutella maculipennis</i>	
41	0	105	13	3	0	0	0	—	18	—	0	—	44	34	1981	Diamond-back Moth	
—	0	0	9	1	0	—	0	—	52	—	—	434	49	56	1980	<i>Udea ferrugalis</i>	
0	0	0	0	0	0	0	0	—	2	—	0	—	0	4	1981	Rusty Dot Pearl	



ROTHAMSTED REPORT FOR 1982, PART 2

TABLE 3(a)

*The Rothamsted Insect Survey—Suction Traps: four-weekly totals of Chrysopa carnea in 1979–80–81–82*

Week No.	Elgin	Dundee	The Murrays	East Craigs	Ayr	Newcastle	High Mowthorpe	Preston	Kirton	Shardlow	Broom's Barn	Hereford	Rothamsted Tower	Writtle	Rainham II	Long Ashton	Silwood Park	Wye	North Farm	Littlehampton	Starcross	Rosewarne
1979																						
1-16	0	0	0	0	0	0	0	0	—	0	0	0	0	2	2	0	4	0	1	0	1	0
17-20	0	0	1	0	0	0	0	0	—	0	0	0	2	1	2	0	18	0	0	0	0	0
21-24	0	0	0	0	2	0	0	1	—	0	0	2	7	4	9	0	11	0	5	0	1	0
25-28	0	0	0	0	0	0	0	1	—	2	0	4	27	0	0	0	11	0	3	0	1	0
29-32	0	0	0	1	0	0	0	1	—	4	8	0	32	40	4	0	5	6	7	5	0	0
33-36	2	0	3	1	0	0	3	1	—	148	91	22	440	538	4	8	78	44	31	24	6	1
37-40	10	8	1	0	0	0	1	10	—	231	210	11	355	392	77	2	317	554	106	14	7	0
41-44	43	1	5	0	2	7	131	3	—	55	57	37	105	80	23	29	486	151	147	39	13	2
45-52	0	0	0	0	0	0	1	0	—	3	0	1	1	2	0	1	3	0	2	1	7	0
1980																						
1-16	0	0	0	0	0	0	0	0	—	2	0	5	5	6	7	0	12	1	0	0	0	0
17-20	0	0	0	0	0	0	0	0	0	1	1	1	9	0	12	0	22	0	—	0	0	0
21-24	0	1	0	2	1	0	0	0	3	6	4	7	9	8	1	0	17	1	—	1	1	3
25-28	0	1	3	0	19	0	1	0	0	0	4	0	5	2	—	0	0	0	—	3	2	0
29-32	0	0	6	0	0	0	1	2	4	2	12	4	4	16	—	0	0	10	—	8	1	0
33-36	0	1	1	0	0	1	0	0	12	44	174	2	456	68	—	0	8	6	—	10	2	2
37-40	2	4	1	0	1	4	1	0	78	72	68	2	89	108	—	2	20	61	—	16	8	1
41-44	0	1	0	0	0	0	8	1	3	29	6	1	1	6	—	8	29	36	—	6	14	1
45-52	0	0	0	0	0	0	0	0	0	0	1	1	0	0	—	0	0	0	—	0	7	0
1981																						
1-16	0	0	0	0	0	0	0	0	0	1	1	0	31	4	2	0	5	1	—	0	1	0
17-20	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	1	1	—	1	0	0
21-24	0	0	0	0	0	0	0	0	0	1	0	0	0	2	1	0	1	1	—	0	0	0
25-28	0	0	0	0	0	0	0	1	0	1	0	0	3	3	1	0	0	0	—	0	0	0
29-32	0	0	0	0	0	0	0	0	0	0	3	2	2	4	2	0	6	0	—	1	3	0
33-36	0	1	0	0	0	0	0	2	8	16	132	6	318	58	—	2	20	12	—	10	2	3
37-40	0	1	0	0	0	2	4	2	6	32	16	4	41	26	—	2	18	6	—	3	4	0
41-44	4	0	0	0	0	0	1	9	4	5	10	1	2	0	—	5	26	2	—	8	35	0
45-52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0	2	0	—	0	0	0
1982																						
1-16	0	0	0	0	0	0	0	1	0	2	0	1	6	0	6	0	1	1	—	0	2	0
17-20	0	0	0	0	0	0	0	0	0	0	0	4	0	0	2	0	5	1	—	0	0	0
21-24	0	0	0	0	0	0	1	1	1	4	1	6	1	1	5	0	8	0	—	2	0	0
25-28	0	0	1	0	0	0	0	1	0	0	2	9	5	8	18	6	4	4	—	31	20	21
29-32	1	0	1	4	6	1	2	0	9	0	54	32	29	46	—	6	102	20	—	182	29	23
33-36	0	0	1	0	0	0	1	3	25	20	103	4	143	50	—	2	26	36	—	13	16	4
37-40	7	1	3	1	0	26	5	9	27	74	115	18	152	146	—	12	66	88	—	88	24	32
41-44	7	1	1	0	1	0	0	0	12	112	18	45	57	22	—	69	200	29	—	35	36	22
45-52	0	0	0	0	0	1	0	1	1	1	2	6	0	0	—	1	3	0	—	3	5	4

ROTHAMSTED INSECT SURVEY

TABLE 3(b)

The Rothamsted Insect Survey—Suction Traps: annual total catches of Neuroptera in 1979–80–81–82

	Year	Elgin	Dundee	The Murrays	East Craigs	Ayr	Newcastle	High Mowthorpe	Preston	Kirton	Shardlow	Broom's Barn	Hereford	Rothamsted Tower	Writtle	Rainham II	Long Ashton	Silwood Park	Wye	North Farm	Littlehampton	Starcross	Rosewarne
<b>Hemerobiidae</b>																							
<i>H. humulinus</i>	1979		2							—		1				2		1			1		1
	80		2				1											3		—			
	81								1					2	4	1			2	—			1
	82		2	1		1	2					1	2	1	2			7	5	—	4	2	
<i>H. lutescens</i>	1979							1	3	—	6	1	7	6	2	2	6	10	1	4	6	1	4
	80	2						2	2	1				2	2	2	2	9		—		2	2
	81						1	5			6	2		2	2			4		—	2		4
	82							1			3			2	2	2		7		—	1		
<i>H. micans</i>	1979									—						3	1		1	1			1
	80		1		1	1													2	—			
	81								2					2				1	2	—			
	82												1				2	2	1	—			1
<i>H. nitidulus</i>	1979									—							2				1		
	80		2		1																—		
	81												1		1				2		—		
	82																1			—			
<i>H. stigma</i>	1979	4					1		—		2	1	2	2	4			8	4	5	13	1	2
	80	4	1				1	1	2		6	2	2	2	4			14	2	—		1	
	81	5	2				2						2	2	2			10	6	—	5	1	1
	82	6	5	2		4	2	3					1	2	2			3		—	2	3	1
<i>W. betulinus</i>	1979		3			2	1	4	—	2			5	9	2	1	5	7		5	4		1
	80	1		1	1	2		1			2		2	2				1		—		1	1
	81	1	2			2		2					2	3				1		—			
	82	1	1			2	1				2				2			2		—			1
<i>W. subnebulosus</i>	1979			1	8		2	4	—	143	7	67	11	41	10	21	20	15	10	34	10		
	80	2	3	2	8			2	2	9			1	6		2	5	2	—		2		
	81				1			2	1	6		2	22	3	10	3	10	—	—	6	6	1	
	82	1	1							4		1		3		10	2	—	—	3	1	2	
<i>M. paganus</i>	1979									—		2								—			
	80					1														—			
	81																			—			
	82																			—		1	
<i>M. variegatus</i>	1979									—			6		3	4		1	6	9	5		
	80		1		1									1						—			
	81														2	1	2			—			
	82	1	2			4	1	3	2					2	2					—			2

ROTHAMSTED REPORT FOR 1982, PART 2

TABLE 3(b) continued

The Rothamsted Insect Survey—Suction Traps: annual total catches of Neuroptera in 1979–80–81–82

	Elgin	Dundee	The Murrays	East Craigs	Ayr	Newcastle	High Mowthorpe	Preston	Kirton	Shardlow	Broom's Barn	Hereford	Rothamsted Tower	Writtle	Rainham II	Long Ashton	Silwood Park	Wye	North Farm	Littlehampton	Starcross	Rosewarne
Chrysopidae																						
<i>C. albolineata</i>																						
1979									—								1					3
80				1									1				1		—			1
81					1			1	2				2	1		2	14	2	—		1	1
82	1																		—			
<i>C. ciliata</i>																						
1979									—													1
80																	2		—			
81							1										1		—			
82																		2	—			
<i>C. flava</i>																						
1979	1	1							—											1		
80																	3		—			
81													6				2		—			
82	5							1				2	1				6		—			
<i>C. flavifrons</i>																						
1979									—											—		
80																				—		
81											2						2		—			
82																			—			
<i>C. 7-punctata</i>																						
1979									—											—		
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<i>C. ventralis</i>																						
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