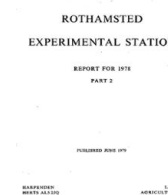


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ROTHAMSTED  
RESEARCH

# Rothamsted Experimental Station Report for 1978 Part 2



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## Rothamsted Insect Survey Tenth Annual Summary With a Comment on the Neuroptera by J. Bowden

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

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## Rothamsted Insect Survey

### Tenth Annual Summary

L. R. TAYLOR and R. A. FRENCH

With a comment on the Neuroptera by J. BOWDEN

#### Suction traps 1978

Daily samples were collected from 3 April to 6 November and the *Aphid Bulletins* were issued weekly from 30 April (*Bulletin* No. 1) to 5 November (*Bulletin* No. 28). The 33 aphid taxa listed in Table 1 (a-h) and Table 3 are those in the *Aphid Bulletin*.

During 1978, in addition to those which appear in the *Aphid Bulletins*, traps were also operating at Belfast, N. Ireland (Table 3), Stirling, Pathhead and Dalkeith in Scotland. These do not appear in Table 1. The trap at Copenhagen, Denmark did not operate during 1978. Suction traps previously sampling at 4 ft (1.2 m) were raised to 5 ft (1.5 m) at the beginning of the season, these were operating at Dundee, East Craigs, Dolphinton, Peebles (a new trap), Broom's Barn, Rothamsted Tower and North Farm; records for these do not appear in *Bulletins* nor in Table 1.

Catches from Zeeland and Nagele, Broom's Barn, and Aberystwyth were identified by A. Van Harten of Wageningen, G. D. Heathcote of Broom's Barn and J. A'Brook of the Welsh Plant Breeding Station respectively. The catches from Pathhead, Stirling and some from East Craigs were identified by Mrs. L. A. D. Turl and Miss S. Cooper of Department of Agriculture and Fisheries for Scotland, East Craigs, H. L. G. Stroyan of Ministry of Agriculture, Fisheries and Food, Plant Pathology Laboratory and V. F. Eastop of the British Museum (Natural History) confirmed difficult identifications.

The *Bulletins*, despatched each Friday, list aphids caught between 5 and 12 days earlier, except for Holland where samples were from 12-19 days previously. This timing is dictated by the postal services.

The *Bulletins* cover the working week Monday to Sunday. Tables 1 and 3 are for standard 4-week periods constant from year to year (see *Rothamsted Report for 1972*, Part 2, 211, Table 4).

Some large catches were sub-sampled in the laboratory to ease pressure of work. The weekly *Bulletins*, Table 1 (a-h) and Table 3 are corrected to full volume samples.

In Tables 1 and 3 there are no missing values; a blank records a zero catch.

#### Light traps

Table 2 (a-h) gives the annual catches during 1976 and 1977 of the same pest, or migratory, Lepidoptera as in previous years. One hundred and thirteen sites completed the 364 day sample for 1977.

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 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.

ROTHAMSTED REPORT FOR 1978, PART 2

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

Species	Sites											
	Elgin	Dundee	Edinburgh	Auchincruive	Copenhagen	Newcastle	High Mowthorpe	Preston	Shardlow	Aberystwyth	Broom's Barn	Hereford
<i>Acyrtosiphon pisum</i>												
<i>Aphis fabae</i> grp.												
<i>Aphis</i> spp.												
<i>Amphorophora rubi</i>												
<i>Aulacorthum solani</i>												
<i>Brachycaudus helichrysi</i>												
<i>Brevicoryne brassicae</i>												
<i>Cavariella aegopodii</i>												
<i>Cinara</i> spp.												
<i>Drepanosiphum platanoidis</i>												
<i>Dysaphis plantaginea</i>												
<i>Elatobium abietinum</i>												
<i>Eriosoma ulmi</i>												
<i>Hyalopterus pruni</i>												
<i>Hyperomyzus lactucae</i>												
<i>Macrosiphum euphorbiae</i>												
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>												
<i>Metopolophium festucae</i>												
<i>Myzus ascalonicus</i>												
<i>Myzus certus</i>												
<i>Myzus ornatus</i>												
<i>Myzus persicae</i> spp.								1				
<i>Nasonovia ribis nigri</i>								1				
<i>Pemphigus</i> spp.												
<i>Pentatrichopus fragaefolii</i>												
<i>Phorodon humuli</i>												
<i>Phyllaphis fagi</i>												
<i>Rhopalosiphum insertum</i>												
<i>Rhopalosiphum maidis</i>												
<i>Rhopalosiphum padi</i>												
<i>Sitobion avenae</i>												
<i>Sitobion fragariae</i>												
First aphid caught								April 2			March 31	

Writtle 16 March, 1 *M. dirhodum*  
 Rainham 16 March, 2 *M. dirhodum*  
 Silwood 5 January, 1 *S. fragariae*  
 Wye 23 February, 1 *R. maidis*  
 Rosewarne 5 January, 1 *R. padi*, 12 January, 1 *R. padi*



ROTHAMSTED INSECT SURVEY

1(a)

of aphids of economic, or other, interest reported in the *Weekly Bulletin* 1978  
26 March to 22 April 1978

Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	North Farm	Starcross	Rosewarne	Sites	Species
1		15	1	2				1	1			<i>Acrythosiphon pisum</i> <i>Aphis fabae</i> grp. <i>Aphis</i> spp. <i>Amphorophora rubi</i> <i>Aulacorthum solani</i> <i>Brachycaudus helichrysi</i> <i>Brevicoryne brassicae</i> <i>Cavariella aegopodii</i> <i>Cinara</i> spp. <i>Drepanosiphum platanoidis</i> <i>Dysaphis plantaginea</i> <i>Elatobium abietinum</i> <i>Eriosoma ulmi</i> <i>Hyalopterus pruni</i> <i>Hyperomyzus lactucae</i> <i>Macrosiphum euphorbiae</i> <i>Megoura viciae</i> <i>Metopolophium dirhodum</i> <i>Metopolophium festucae</i> <i>Myzus ascalonicus</i> <i>Myzus certus</i> <i>Myzus ornatus</i> <i>Myzus persicae</i> grp. <i>Nasonovia ribis nigri</i> <i>Pemphigus</i> spp. <i>Pentatrichopus fragaefolii</i> <i>Phorodon humuli</i> <i>Phyllaphis fagi</i> <i>Rhopalosiphum insertum</i> <i>Rhopalosiphum maidis</i> <i>Rhopalosiphum padi</i> <i>Sitobion avenae</i> <i>Sitobion fragariae</i>
April 22	March 16	March 16	April 2	Jan 5			Feb 23	April 13	April 22	Jan 5		First aphid caught



ROTHAMSTED REPORT FOR 1978, PART 2

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

Species	Elgin	Dundee	Edinburgh	Auchincruive	Copenhagen	Newcastle	High Mowthorpe	Preston	Shardlow	Aberystwyth	Broom's Barn	Hereford
<i>Acyrtosiphon pisum</i>												
<i>Aphis fabae</i> grp.												
<i>Aphis</i> spp.												
<i>Amphorophora rubi</i>												
<i>Aulacorthum solani</i>								1	1			
<i>Brachycaudus helichrysi</i>								1				
<i>Brevicoryne brassicae</i>												
<i>Cavariella aegopodii</i>												
<i>Cinara</i> spp.												
<i>Drepanosiphum platanoidis</i>				15				22	3			10
<i>Dysaphis plantaginea</i>												
<i>Elatobium abietinum</i>		1		9				4	1	33	5	53
<i>Eriosoma ulmi</i>												
<i>Hyalopterus pruni</i>												
<i>Hyperomyzus lactucae</i>												
<i>Macrosiphum euphorbiae</i>											1	2
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>			1	1				1	2	1		1
<i>Metopolophium festucae</i>												1
<i>Myzus ascalonicus</i>				3				2	20		4	6
<i>Myzus certus</i>										2	1	
<i>Myzus ornatus</i>				1								
<i>Myzus persicae</i> grp.												
<i>Nasonovia ribis nigri</i>												
<i>Pemphigus</i> spp.												
<i>Pentatrachopus fragaefolii</i>												
<i>Phorodon humuli</i>												
<i>Phyllaphis fagi</i>												
<i>Rhopalosiphum insertum</i>								1				
<i>Rhopalosiphum maidis</i>												
<i>Rhopalosiphum padi</i>										8		
<i>Sitobion avenae</i>												1
<i>Sitobion fragariae</i>										4		
First aphid caught		May 19	May 20	May 15					May 4	May 4		May 4

ROTHAMSTED INSECT SURVEY

1(b)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1978  
23 April to 20 May 1978

												Sites
Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	North Farm	Starcross	Rosewarne		Species
		2		1	2							<i>Acyrtosiphon pisum</i>
					3							<i>Aphis fabae</i> grp.
												<i>Aphis</i> spp.
												<i>Amphorophora rubi</i>
		2										<i>Aulacorthum solani</i>
		4	3				1	1	2	9		<i>Brachycaudus helichrysi</i>
									1			<i>Brevicoryne brassicae</i>
				1								<i>Cavariella aegopodii</i>
												<i>Cinara</i> spp.
		1	118	2		1522	3	2	3	3		<i>Drepanosiphum platanoidis</i>
												<i>Dysaphis plantaginea</i>
19	3		10	234	3	27	15	31	4	22		<i>Elatobium abietinum</i>
												<i>Eriosoma ulmi</i>
												<i>Hyalopterus pruni</i>
												<i>Hyperomyzus lactucae</i>
1		2	4				1		2	1		<i>Macrosiphum euphorbiae</i>
												<i>Megoura viciae</i>
4	1	14	4	6		1		2		2		<i>Metopolophium dirhodum</i>
		4	4	4	3					6		<i>Metopolophium festucae</i>
10	5	27	23	42	25	22	6	14	3	9		<i>Myzus ascalonicus</i>
												<i>Myzus certus</i>
1			3									<i>Myzus ornatus</i>
		3										<i>Myzus persicae</i> grp.
			2				1					<i>Nasonovia ribis nigri</i>
												<i>Pemphigus</i> spp.
												<i>Pentatrachopus fragaefolii</i>
				1								<i>Phorodon humuli</i>
					3	1						<i>Phyllaphis fagi</i>
												<i>Rhopalosiphum insertum</i>
												<i>Rhopalosiphum maidis</i>
		2			1	1				1		<i>Rhopalosiphum padi</i>
												<i>Sitobion avenae</i>
					1							<i>Sitobion fragariae</i>
												First aphid caught
					April	May						
					23	5						

ROTHAMSTED REPORT FOR 1978, PART 2

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

Sites	Elgin	Dundee	Edinburgh	Auchincruive	Copenhagen	Newcastle	High Mowthorpe	Preston	Shardlow	Aberystwyth	Broom's Barn	Hereford
Species												
<i>Acyrtosiphon pisum</i>		1							3	1	5	3
<i>Aphis fabae</i> grp.		1	1				1	5	2	2	7	4
<i>Aphis</i> spp.	1	5	1				2	1	1			1
<i>Amphorophora rubi</i>			1			1					1	2
<i>Aulacorthum solani</i>		1	1			2					2	
<i>Brachycaudus helichrysi</i>		6	13	131		14	117	455	392	666	259	858
<i>Brevicoryne brassicae</i>											1	
<i>Cavariella aegopodii</i>	1	4	11	13		8	31	74	303	40	115	228
<i>Cinara</i> spp.		1								4		
<i>Drepanosiphum platanoidis</i>	57	3830	5885	467		30	232	1152	261	559	51	414
<i>Dysaphis plantaginea</i>										1	2	
<i>Elatobium abietinum</i>	1	17	31	96		5	25	51	19	274	41	65
<i>Eriosoma ulmi</i>		3	5	2				37	8	3	1	31
<i>Hyalopterus pruni</i>				1				5	2	1		2
<i>Hyperomyzus lactucae</i>			2	2		2		10	1	4		2
<i>Macrosiphum euphorbiae</i>		4	6	3		1		4	2	6	1	6
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>			1	1				14	12	4		6
<i>Metopolophium festucae</i>			2	18				47		11	5	8
<i>Myzus ascalonicus</i>		3	8	12		6	1	28	48		33	18
<i>Myzus certus</i>		1	4							9		1
<i>Myzus ornatus</i>			2									
<i>Myzus persicae</i> grp.								2	1	2		1
<i>Nasonovia ribis nigri</i>		1	2			1		5	4			3
<i>Pemphigus</i> spp.												
<i>Pentatrachopus fragaefolii</i>												
<i>Phorodon humuli</i>			1	1		4	12	8	42	25	50	204
<i>Phyllaphis fagi</i>	3	14	10	2		1	2	37	5	4	3	4
<i>Rhopalosiphum insertum</i>		39	5	308		20	113	474	53	6	5	131
<i>Rhopalosiphum maidis</i>								2		6		
<i>Rhopalosiphum padi</i>	1	6	65	9			16	2	4	62	89	2
<i>Sitobion avenae</i>			2				1	2		4	2	3
<i>Sitobion fragariae</i>		1	1	14		9	5	4	11		4	21
First aphid caught	June 12					May 21	May 22					



## ROTHAMSTED INSECT SURVEY

1(c)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1978  
21 May to 17 June 1978

											Sites
Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	North Farm	Starcross	Rosewarne	Species
2		10	4	5	3	3	2	4			<i>Acyrtosiphon pisum</i>
3	2	7	4	8	6	4	53	20	2	1	<i>Aphis fabae</i> grp.
1	6	16	10	13	1		11	4	4	1	<i>Aphis</i> spp.
	1	2	2	1	1		2	1			<i>Amphorophora rubi</i>
	1	4	2	1			1	2	1		<i>Aulacorthum solani</i>
691	996	768	1535	736	109	59	649	783	190	52	<i>Brachycaudus helichrysi</i>
	1								5	4	<i>Brevicoryne brassicae</i>
147	276	118	89	104	266	194	217	133	30	12	<i>Cavariella aegopodii</i>
	1				1	1					<i>Cinara</i> spp.
14	61	7	389	11	7	2633	229	1041	31	19	<i>Drepanosiphum platanoidis</i>
			1	2		5		1			<i>Dysaphis plantaginea</i>
72	17	10	140	555		149	107	326	19	27	<i>Elatobium abietinum</i>
6	10	27	21	8	86	48	5	4	1		<i>Eriosoma ulmi</i>
1	1	3	1	2	3	8	2		1		<i>Hyalopterus pruni</i>
3	2	1	6	2	1	5	2	1		1	<i>Hyperomyzus lactucae</i>
4	6	29	33	14		1	2	12	4	4	<i>Macrosiphum euphorbiae</i>
											<i>Megoura viciae</i>
10	4	69	32	17	6	5	4	10	2		<i>Metopolophium dirhodum</i>
6	3	9	30	13	30	3	8	9	3	19	<i>Metopolophium festucae</i>
35	20	41	28	28	40	96	7	31	2	3	<i>Myzus ascalonicus</i>
	1	15		1		1					<i>Myzus certus</i>
			4	1	1			1			<i>Myzus ornatus</i>
1	6	5	6	4	1						<i>Myzus persicae</i> grp.
1			14	2	2	7	1	2			<i>Nasonovia ribis nigri</i>
											<i>Pemphigus</i> spp.
											<i>Pentatrichopus fragaefolii</i>
78	116	191	135	190	8	11	89	64	5	1	<i>Phorodon humuli</i>
1	3		8	4	4	17	1	9	9	3	<i>Phyllaphis fagi</i>
45	67	26	77	17	20	174	42	23	18	14	<i>Rhopalosiphum insertum</i>
1	1		1		1		3	1		1	<i>Rhopalosiphum maidis</i>
4	3	36	5	6	25	53	3	10	8	3	<i>Rhopalosiphum padi</i>
2	11	39	19	18	5	5	10	2	5	1	<i>Sitobion avenae</i>
13	8	38	50	42	5	7	25	24	9	5	<i>Sitobion fragariae</i>

Newcastle trap not operating 27 May–11 June  
Elgin trap not operating until 12 June

First aphid caught

ROTHAMSTED REPORT FOR 1978, PART 2

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

Species	Elgin	Dundee	Edinburgh	Auchincruive	Copenhagen	Newcastle	High Mowthorpe	Preston	Shardlow	Aberystwyth	Broom's Barn	Hereford
<i>Acyrtosiphon pisum</i>	2	3	1	1		1	5	1	26	4	21	13
<i>Aphis fabae</i> grp.			4	3		5		6	1	2	7	4
<i>Aphis</i> spp.	1	6	14	1			4	2	1	1	3	5
<i>Amphorophora rubi</i>		1				1	3	1	1		3	8
<i>Aulacorthum solani</i>												
<i>Brachycaudus helichrysi</i>		18	4	14		23	343	53	78	40	68	143
<i>Brevicoryne brassicae</i>									2	2	2	
<i>Cavariella aegopodii</i>	1	7	7	6		26	69	40	127	7	36	60
<i>Cinara</i> spp.	1			1		4	1	3	2	2		1
<i>Drepanosiphum platanoidis</i>	147	75	56	17		39	34	59	16	27	20	10
<i>Dysaphis plantaginea</i>								1	1		3	
<i>Elatobium abietinum</i>						6	5					
<i>Eriosoma ulmi</i>	22	230	61	7		24	39	76	79	2	83	44
<i>Hyalopterus pruni</i>		7	1	5		3	16	40	34	4	34	43
<i>Hyperomyzus lactucae</i>		2				1			1		9	3
<i>Macrosiphum euphorbiae</i>		9	5	1		9			7	2	4	4
<i>Megoura viciae</i>								2				
<i>Metopolophium dirhodum</i>	12	208	134	31		82	120	60	802	57	525	249
<i>Metopolophium festucae</i>	1	2	1	3		3	4	9	1		53	16
<i>Myzus ascalonicus</i>		1	5			2	5	1	5		4	2
<i>Myzus certus</i>						1				1	1	
<i>Myzus ornatus</i>						1			1			1
<i>Myzus persicae</i> grp.								1	3		3	
<i>Nasonovia ribis nigri</i>							1	1	1	2	3	
<i>Pemphigus</i> spp.			1	1				14	7		8	20
<i>Pentatrichopus fragaefolii</i>			1			1						
<i>Phorodon humuli</i>		7	4			5	64	3	67	20	90	175
<i>Phyllaphis fagi</i>	7	37	11	2		5	10	5	10	1	7	5
<i>Rhopalosiphum insertum</i>		4	8	47		22	55	5	18	2	48	202
<i>Rhopalosiphum maidis</i>									1			
<i>Rhopalosiphum padi</i>	6	156	44	29		30	119	7	6	16	75	7
<i>Sitobion avenae</i>		1	4	1		1	6	2	15	6	40	72
<i>Sitobion fragariae</i>		3	1	1		7	4	1	4	7	18	66



## ROTHAMSTED INSECT SURVEY

1(d)

of aphids of economic, or other, interest reported in the *Weekly Bulletin* 1978  
18 June to 15 July 1978

											Sites
Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	North Farm	Starcross	Rosewarne	Species
18	58	63	10	10	35	2	38	10	1		<i>Acyrtosiphon pisum</i>
6	21	17	10	8	120	9	29	37	6	2	<i>Aphis fabae</i> grp.
14	14	18	17	24	2	1	9	11	5	5	<i>Aphis</i> spp.
3	5	2		1			3	12	1		<i>Amphorophora rubi</i>
1	2		1								<i>Aulacorthum solani</i>
136	188	118	37	89	19	8	150	180	54	17	<i>Brachycaudus helichrysi</i>
			2		2				12		<i>Brevicoryne brassicae</i>
72	94	53	13	52	247	49	55	67	4	4	<i>Cavariella aegopodii</i>
1	2			2		3	2				<i>Cinara</i> spp.
4	6	5	8	4	1	450	12	101	21	29	<i>Drepanosiphum platanoidis</i>
1	1		2	1	1	1	1	1	3		<i>Dysaphis plantaginea</i>
									1		<i>Elatobium abietinum</i>
10	43	54	2	6	66	52	24	13	1	1	<i>Eriosoma ulmi</i>
28	31	89	26	29	51	10	40	22	4		<i>Hyalopterus pruni</i>
1	2	3		1	5	41	8	8			<i>Hyperomyzus lactucae</i>
4	9	6	11	4	1	1	8	6	7	30	<i>Macrosiphum euphorbiae</i>
											<i>Megoura viciae</i>
240	359	274	67	136	472	662	337	264	58	8	<i>Metopolophium dirhodum</i>
42	14	11	4	9	11	8	8	15		1	<i>Metopolophium festucae</i>
2	1	3	1	2	1		2		1	1	<i>Myzus ascalonicus</i>
	6	3		1	5	1					<i>Myzus certus</i>
	1		2	2			1	1			<i>Myzus ornatus</i>
2	7	1		1	11	4	5	4		1	<i>Myzus persicae</i> grp.
	1	4	3		9	1	6	2		1	<i>Nasonovia ribis nigri</i>
4	4	11	6	15			5	1	2		<i>Pemphigus</i> spp.
											<i>Pentatrachopus fragaefolii</i>
94	167	114	34	79	10	5	161	202	55		<i>Phorodon humuli</i>
7	3	1	4	6			9	2	1	1	<i>Phyllaphis fagi</i>
87	113	60	93	97	9	17	41	85	14	13	<i>Rhopalosiphum insertum</i>
		6	2				3	5		1	<i>Rhopalosiphum maidis</i>
24	59	203	15	60	84	128	63	23	22	8	<i>Rhopalosiphum padi</i>
68	90	113	64	128	48	25	155	118	64	42	<i>Sitobion avenae</i>
35	26	41	42	59	6	10	59	123	26	4	<i>Sitobion fragariae</i>



ROTHAMSTED REPORT FOR 1978, PART 2

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

Species	Sites											
	Elgin	Dundee	Edinburgh	Auchincruive	Copenhagen	Newcastle	High Mowthorpe	Preston	Shardlow	Aberystwyth	Broom's Barn	Hereford
<i>Acyrtosiphon pisum</i>	7	416	4	4		13	27	2	379	10	367	63
<i>Aphis fabae</i> grp.	37	1090	99	92		369	195	472	759	121	1639	92
<i>Aphis</i> spp.	4	122	91	17		20	9	28	32	18	11	5
<i>Amphorophora rubi</i>	1	8							2		2	
<i>Aulacorthum solani</i>			3					13	2	1	8	2
<i>Brachycaudus helichrysi</i>	8	312	39	23		40	43	34	78	4	234	35
<i>Brevicoryne brassicae</i>								1	2		50	2
<i>Cavariella aegopodii</i>	9	50	2			27	25	22	84	3	54	1
<i>Cinara</i> spp.	2	7	4	2		20	2	1				3
<i>Drepanosiphum platanoidis</i>	124	53	5	32		32	9	41	25	10	8	
<i>Dysaphis plantaginea</i>							1			1	2	
<i>Elatobium abietinum</i>				1								
<i>Eriosoma ulmi</i>	8	37	5			10	4	4	12		10	1
<i>Hyalopterus pruni</i>	3	69	8	4		11	33	73	258	9	196	50
<i>Hyperomyzus lactucae</i>	1	14	3	2		7	4	5	34	6	15	8
<i>Macrosiphum euphorbiae</i>	27	402	160	62		38	7	146	91	29	48	76
<i>Megoura viciae</i>				1								
<i>Metopolophium dirhodum</i>	1020	18172	4557	151		3451	2372	329	6219	45	3573	357
<i>Metopolophium festucae</i>	10	1	10	5		2	17	20	4	2	53	5
<i>Myzus ascalonicus</i>												
<i>Myzus certus</i>						2	1	2	2		6	1
<i>Myzus ornatus</i>										2	1	
<i>Myzus persicae</i> grp.	3	29	11	9		1	2	36	56	3	83	6
<i>Nasonovia ribis nigri</i>	4	8	6	1		2	3	2	4	1	8	2
<i>Pemphigus</i> spp.	7	9	4	2		6	3	19	27	2	10	6
<i>Pentatrachopus fragaefolii</i>			1									
<i>Phorodon humuli</i>		10	3			1	34	2	69	3	74	13
<i>Phyllaphis fagi</i>	1	1	1			1	2		11			
<i>Rhopalosiphum insertum</i>	20	724	395	1209		482	430	494	279	29	592	994
<i>Rhopalosiphum maidis</i>	6	4		2		3	2	6	5	2	12	
<i>Rhopalosiphum padi</i>	5396	20675	5644	1581		2560	2840	381	1605	425	3417	1132
<i>Sitobion avenae</i>	182	263	264	46		277	296	75	1586	249	1064	739
<i>Sitobion fragariae</i>	3	100	11	18		38	93	40	239	1	309	621

## ROTHAMSTED INSECT SURVEY

1(e)

*aphids of economic, or other, interest reported in the weekly Bulletin 1978  
16 July to 12 August 1978*

											Sites	
	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	North Farm	Starcross	Rosewarne	Species
	49	203	28	24	26	128	153	57	54	22	2	<i>Acyrtosiphon pisum</i>
	157	590	89	32	69	648	1178	75	56	33	6	<i>Aphis fabae</i> grp.
	33	44	7		33	49	92	23	7	8	2	<i>Aphis</i> spp.
			1		4	4						<i>Amphorophora rubi</i>
			1	1		11	10	2		1		<i>Aulacorthum solani</i>
	40	44	10	16	16	84	131	56	17	14	10	<i>Brachycaudus helichrysi</i>
		17	17	4	2	6	24	2		67	3	<i>Brevicoryne brassicae</i>
	41	23	10	4	6	301	197	17	4	4	1	<i>Cavariella aegopodii</i>
	1	2	2			7	15	2	1			<i>Cinara</i> spp.
		5	2	4			400	15	38	12	31	<i>Drepanosiphum platanoidis</i>
					1	2	5					<i>Dysaphis plantaginea</i>
						8	14	2			1	<i>Elatobium abietinum</i>
	2	1										<i>Eriosoma ulmi</i>
	142	256	60	32	107	362	303	225	52	31		<i>Hyalopterus pruni</i>
	5	3	1	5	5	17	199	21	14	4	5	<i>Hyperomyzus lactucae</i>
	18	20	4	14	7	141	405	13	16	22	33	<i>Macrosiphum euphorbiae</i>
						6						<i>Megoura viciae</i>
	341	705	282	79	65	1499	14284	327	172	176	16	<i>Metopolophium dirhodum</i>
	12	56	3	3	3	13	35	4	3	1	1	<i>Metopolophium festucae</i>
		1										<i>Myzus ascalonicus</i>
	1	2	1		2	17	196			1	2	<i>Myzus certus</i>
	1			1					1	1		<i>Myzus ornatus</i>
	7	107	2	5	10	667	4655	35	19	2	2	<i>Myzus persicae</i> grp.
	2	5	1	2	2	10	32		1	1	2	<i>Nasonovia ribis nigri</i>
	6	4	6	3	5			2		2	1	<i>Pemphigus</i> spp.
												<i>Pentatrichopus fragaefolii</i>
	18	30	14	11	3	50	30	33	4	1		<i>Phorodon humuli</i>
								2		1		<i>Phyllaphis fagi</i>
	1068	1262	90	206	679	510	668	248	469	220	64	<i>Rhopalosiphum insertum</i>
	1	2	2	2	1	14	34	8	6	2	1	<i>Rhopalosiphum maidis</i>
	464	1133	602	54	431	2258	9020	404	350	203	99	<i>Rhopalosiphum padi</i>
	465	1100	144	374	483	474	534	506	247	384	69	<i>Sitobion avenae</i>
	380	290	33	44	416	166	202	205	352	136	12	<i>Sitobion fragariae</i>

Rainham trap not operating July 19–August 5



ROTHAMSTED REPORT FOR 1978, PART 2

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

Sites												
Species	Elgin	Dundee	Edinburgh	Auchincruive	Copenhagen	Newcastle	High Mowthorpe	Preston	Shardlow	Aberystwyth	Broom's Barn	Hereford
<i>Acyrtosiphon pisum</i>	3	15		2				2	4	10	1	17
<i>Aphis fabae</i> grp.	130	340	83	13		470	36	32	135	268	44	238
<i>Aphis</i> spp.	6	18	23	16		16	4	12	13	30	6	10
<i>Amphorophora rubi</i>								2	1	1		1
<i>Aulacorthum solani</i>												
<i>Brachycaudus helichrysi</i>	8	30	14	9		6	4	10	34	20	17	54
<i>Brevicoryne brassicae</i>										1	19	9
<i>Cavariella aegopodii</i>		5				4		5	3	1	4	1
<i>Cinara</i> spp.	2	3		1		1						
<i>Drepanosiphum platanoidis</i>	81	125	3	16		44	4	97	5	84	14	2
<i>Dysaphis plantaginea</i>				1				1	1	2	1	
<i>Elatobium abietinum</i>												
<i>Eriosoma ulmi</i>	1	2	1			1		1	1		1	
<i>Hyalopterus pruni</i>	3	38	5	2		2	7	26	47	4	50	14
<i>Hyperomyzus lactucae</i>				1		1		1				
<i>Macrosiphum euphorbiae</i>	8	23	7	2		3	4	6	3	4		7
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>	58	179	24	4		40	20	2	1	4	8	4
<i>Metopolophium festucae</i>				1								
<i>Myzus ascalonicus</i>												
<i>Myzus certus</i>		2						1				
<i>Myzus ornatus</i>												
<i>Myzus persicae</i> grp.		3	1	3				7	6		2	1
<i>Nasonovia ribis nigri</i>									1	2		
<i>Pemphigus</i> spp.	21	19	15	68		21	1	25	11	5	9	22
<i>Pentatrichopus fragaefolii</i>												
<i>Phorodon humuli</i>				1						2	1	217
<i>Phyllaphis fagi</i>	1											1
<i>Rhopalosiphum insertum</i>	30	196	171	249		766	142	325	177	57	185	1485
<i>Rhopalosiphum maidis</i>		1	1			1		1		1		1
<i>Rhopalosiphum padi</i>	10722	9469	1853	728		2295	1208	1225	1410	364	1503	274
<i>Sitobion avenae</i>	7	22	11	3		5	9	12	20	36	17	41
<i>Sitobion fragariae</i>	1	5		1		2	8	3	18	8	9	15



ROTHAMSTED INSECT SURVEY

(1f)

aphids of economic, or other, interest reported in the weekly Bulletin 1978  
13 August to 9 September 1978

											Sites
Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	North Farm	Starcross	Rosewarne	Species
1	2	4	3			4	12	8	16	3	<i>Acyrtosiphon pisum</i>
15	17	19	28	7	36	16	6	2	8	4	<i>Aphis fabae</i> grp.
5	4	57		12		2	14	2	5	2	<i>Aphis</i> spp.
			16								<i>Amphorophora rubi</i>
	2		1	2			1				<i>Aulacorthum soloni</i>
23	13	26	12	12	2	2	136	69	44	10	<i>Brachycaudus helichrysi</i>
2	10	91	8	2	8	6	7	1	27	3	<i>Brevicoryne brassicae</i>
		1		1	2		3		3		<i>Cavariella aegopodii</i>
	1				6						<i>Cinara</i> spp.
2	3	2	11		8	88	26	13	10	37	<i>Drepanosiphum platanoidis</i>
						2	1	3			<i>Dysaphis plantaginea</i>
2	2	11		2	2					1	<i>Elatobium abietinum</i>
26	48	244	37	11	152	308	97	8	40	8	<i>Eriosoma ulmi</i>
										1	<i>Hyalopterus pruni</i>
2			9	1		2	2		9		<i>Hyperomyzus lactucae</i>
											<i>Macrosiphum euphorbiae</i>
2		1	3				2	1		2	<i>Megoura viciae</i>
			2						2		<i>Metopolophium dirhodum</i>
											<i>Metopolophium festucae</i>
						6				2	<i>Myzus ascalonicus</i>
											<i>Myzus certus</i>
	5		1		86	214	4			2	<i>Myzus ornatus</i>
			1				1	1		2	<i>Myzus persicae</i> grp.
8	7	170	16	48			10	9	14	8	<i>Nasonovia ribis nigri</i>
				1	6		18				<i>Pemphigus</i> spp.
											<i>Pentatrachopus fragaefolii</i>
	1										<i>Phorodon humuli</i>
576	624	459	246	391	296	698	341	384	898	176	<i>Phyllaphis fagi</i>
							1		2		<i>Rhopalosiphum insertum</i>
225	803	1094	234	251	1058	902	1101	286	234	142	<i>Rhopalosiphum maidis</i>
22	27	15	40	19	18	16	72	17	76	76	<i>Rhopalosiphum padi</i>
5	14	2	9	6	20	4	16	12	50	1	<i>Sitobion avenae</i>
											<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1978, PART 2

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

Species	Elgin	Dundee	Edinburgh	Auchincruive	Copenhagen	Newcastle	High Mowthorpe	Preston	Shardlow	Aberystwyth	Broom's Barn	Hereford
<i>Acyrtosiphon pisum</i>	1							4	6	4	4	10
<i>Aphis fabae</i> grp.	13	1	6			3	1	5	78	20	35	48
<i>Aphis</i> spp.	2	1	2	1		1		4	26	13		22
<i>Amphorophora rubi</i>												
<i>Aulacorthum solani</i>											1	3
<i>Brachycaudus helichrysi</i>	4	38	17	8		15	9	30	32	14	131	109
<i>Brevicoryne brassicae</i>										1	3	72
<i>Cavariella aegopodii</i>		2		1						1	9	
<i>Cinara</i> spp.												
<i>Drepanosiphum platanoidis</i>	3	39	4	5		12	1	12		36	7	
<i>Dyasaphis plantaginea</i>								1	1	25	3	4
<i>Elatobium abietinum</i>												
<i>Eriosoma ulmi</i>		1				1			1	3	10	30
<i>Hyalopterus pruni</i>	1	5							16	1	15	6
<i>Hyperomyzus lactucae</i>							1			5	1	4
<i>Macrosiphum euphorbiae</i>							1		8			15
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>	1					1			4	11	4	29
<i>Metopolophium festucae</i>										2		2
<i>Myzus ascalonicus</i>		1										
<i>Myzus certus</i>				2								
<i>Myzus ornatus</i>		1										
<i>Myzus persicae</i> grp.		1	4	3		1		11	14	9	9	31
<i>Nasonovia ribis nigri</i>	1	1							5	4	9	1
<i>Pemphigus</i> spp.	48	77	88	13		59	6	148	200	110	131	159
<i>Pentatrichopus fragaefolii</i>												
<i>Phorodon humuli</i>									12			1262
<i>Phyllaphis fagi</i>												
<i>Rhopalosiphum insertum</i>	197	1412	726	574		749	463	3496	2223	2226	2079	5658
<i>Rhopalosiphum maidis</i>										1		
<i>Rhopalosiphum padi</i>	2259	7691	1823	694		1481	272	8401	10532	6285	1878	3646
<i>Sitobion avenae</i>			3						6	6	4	6
<i>Sitobion fragariae</i>		2	1						9	4		12

## ROTHAMSTED INSECT SURVEY

1(g)

aphids of economic, or other, interest reported in the weekly Bulletin 1978  
10 September to 7 October 1978

Sites											Species
Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	North Farm	Starcross	Rosewarne	
											<i>Acyrtosiphon pisum</i>
3	2	12	8	5			7	15	6		<i>Aphis fabae</i> grp.
1	1	68	16	11	60		31	5	15	12	<i>Aphis</i> spp.
				3			33	14	10	7	<i>Amphorophora rubi</i>
		7	2	1						1	<i>Aulacorthum solani</i>
70	53	61	41	3	12		159	64	98	6	<i>Brachycaudus helichrysi</i>
3	6	8	8	65	10		10	4	89	2	<i>Brevicoryne brassicae</i>
1		8	8	10			6	3		3	<i>Cavariella aegopodii</i>
	1	17	25								<i>Cinara</i> spp.
1	4	19	7	37	4		6	10	10	58	<i>Drepanosiphum platanoidis</i>
							6	66	2	4	<i>Dysaphis plantaginea</i>
1	2			3	6		5	1			<i>Elatobium abietinum</i>
3	1	144	17	10	275		37	6	24	3	<i>Eriosoma ulmi</i>
3		8	4	3	2		6	4	6		<i>Hyalopterus pruni</i>
		53	16	18	4		4	2	14	1	<i>Hyperomyzus lactucae</i>
1	1	8	9				9	5	1	1	<i>Macrosiphum euphorbiae</i>
1		2	5				2				<i>Megoura viciae</i>
			1		6		3			1	<i>Metopolophium dirhodum</i>
9	4	37	5	9	8		48	26	23	7	<i>Metopolophium festucae</i>
3	1		6	11	4		5	5	3	3	<i>Myzus ascalonicus</i>
56	32	1182	238	216			108	99	109	24	<i>Myzus certus</i>
											<i>Myzus ornatus</i>
5	3	8	3	20							<i>Myzus persicae</i> grp.
											<i>Nasonovia ribis nigri</i>
1978	322	361	2158	1218	136		974	1393	1649	551	<i>Pemphigus</i> spp.
											<i>Pentatrachopus fragaefolii</i>
							453	20		1	<i>Phorodon humuli</i>
											<i>Phyllaphis fagi</i>
966	1010	1804	3637	2411	1084		4669	1973	2566	532	<i>Rhopalosiphum insertum</i>
2	2	15	10	17	2		21	8	5	4	<i>Rhopalosiphum maidis</i>
		6	11	1	6		5	3	16		<i>Rhopalosiphum padi</i>
											<i>Sitobion avenae</i>
											<i>Sitobion fragariae</i>

Elgin trap not operating September 25–October 1  
N.E. Polder information not available



ROTHAMSTED REPORT FOR 1978, PART 2

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

Sites	Elgin	Dundee	Edinburgh	Auchincruive	Copenhagen	Newcastle	High Mowthorpe	Preston	Shardlow	Aberystwyth	Broom's Barn	Hereford
Species												
<i>Acyrtosiphon pisum</i>									4			2
<i>Aphis fabae</i> grp.							5	8	45	8	263	20
<i>Aphis</i> spp.							1	7	36	17	7	32
<i>Amphorophora rubi</i>										1		
<i>Aulacorthum solani</i>								3	6		11	8
<i>Brachycaudus helichrysi</i>	3	10	5			7	7	7	10	3	17	12
<i>Brevicoryne brassicae</i>		2	1						5	3	6	170
<i>Cavariella aegopodii</i>		2				3			3	3	31	1
<i>Cinara</i> spp.												
<i>Drepanosiphum platanoidis</i>		12	5			3	2	27	8	31	8	2
<i>Dysaphis plantaginea</i>				1					12	19	3	8
<i>Elatobium abietinum</i>												
<i>Eriosoma ulmi</i>	1	58	2	1					6	2	9	104
<i>Hyalopterus pruni</i>		2					1	5			9	
<i>Hyperomyzus lactucae</i>		1		1		1	2	2	19	2	2	26
<i>Macrosiphum euphorbiae</i>		2		1					2	3		12
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>	1	2	1	2		1	3	11	9	19	3	17
<i>Metopolophium festucae</i>									1	11		
<i>Myzus ascalonicus</i>						1			1		5	1
<i>Myzus certus</i>							1					
<i>Myzus ornatus</i>										9		
<i>Myzus persicae</i> grp.	6	4	2	3		5	3	11	42	26	29	63
<i>Nasonovia ribis nigri</i>	1			1						19	4	3
<i>Pemphigus</i> spp.	19	71	1	100		80	11	195	826	90	1429	239
<i>Pentatrachopus fragaefolii</i>	2											
<i>Phorodon humuli</i>				1					17			147
<i>Phyllaphis fagi</i>	1						1		4		3	1
<i>Rhopalosiphum insertum</i>	212	1139	290	288		883	712	1660	2938	4019	2267	5962
<i>Rhopalosiphum maidis</i>			2			2				6		
<i>Rhopalosiphum padi</i>	414	3840	955	1261		1100	324	4582	9097	3465	2636	4624
<i>Sitobion avenae</i>		1				1	2		1	9	7	45
<i>Sitobion fragariae</i>		2		3		3	1	13	70	35	9	51

## ROTHAMSTED INSECT SURVEY

1(h)

aphids of economic, or other, interest reported in the weekly Bulletin 1978  
8 October to 4 November 1978

										Sites	
Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	North Farm	Starcross	Rosewarne	Species
3	1	11	2	5	8			24	1		<i>Acyrtosiphon pisum</i>
7	8	111	33	10	1296		133	30	30	2	<i>Aphis fabae</i> grp.
	5	188	30	27			92	41	53	31	<i>Aphis</i> spp.
		1									<i>Amphorophora rubi</i>
6	5	101	9	3	4		7	9	1	6	<i>Aulacorthum soloni</i>
10	3	45	5	23	28		90	26	4	1	<i>Brachycaudus helichrysi</i>
12	18	37	3	26	6		215	49	900	10	<i>Brevicoryne brassicae</i>
11	2	8	21	2	16		8	7	11		<i>Cavariella aegopodii</i>
		1							1		<i>Cinara</i> spp.
	4	19	34	5	10		1	14	20	30	<i>Drepanosiphum platanoidis</i>
10	1	50	22	46	12		7	53	20	18	<i>Dysaphis plantaginea</i>
											<i>Elatobium abietinum</i>
7	6	29	10	7			52	10			<i>Eriosoma ulmi</i>
1		47	1	2	46		7	1	1	1	<i>Hyalopterus pruni</i>
14	11	41	12	9	12		51	8	16	1	<i>Hyperomyzus lactucae</i>
1		191	16	10	2		9	7	16	3	<i>Macrosiphum euphorbiae</i>
											<i>Megoura viciae</i>
7		19	14	2	24		10	5	11	1	<i>Metopolophium dirhodum</i>
		4	2	2			1	2	1		<i>Metopolophium festucae</i>
3		3					5		1	2	<i>Myzus ascalonicus</i>
				2					1		<i>Myzus certus</i>
	2	2	2	3	2			1	1		<i>Myzus ornatus</i>
30	12	64	35	23	40		206	77	117	18	<i>Myzus persicae</i> grp.
10		2		6	12		36	9	9	1	<i>Nasonovia ribis nigri</i>
183	170	3237	1833	348			317	298	196	45	<i>Pemphigus</i> spp.
											<i>Pentatrichopus fragaefolii</i>
2	2	352	1	4			38		3	3	<i>Phorodon humuli</i>
					4				1		<i>Phyllaphis fagi</i>
2110	588	1546	3204	2095	1262		5322	2548	2577	2114	<i>Rhopalosiphum insertum</i>
1		1	2	2			1	2		2	<i>Rhopalosiphum maidis</i>
1548	732	9749	5143	2598	6474		29471	6457	7406	931	<i>Rhopalosiphum padi</i>
19	5	38	17	16	16		45	22	41	8	<i>Sitobion avenae</i>
52	22	119	276	148	4		153	116	73	2	<i>Sitobion fragariae</i>

Writtle trap catches inaccurate October 9–October 26  
N.E. Polder information not available



ROTHAMSTED REPORT FOR 1978, PART 2

TABLE  
The Rothamsted Insect Survey—Light Traps: annual records

Pest Species	Year	Inverpolly	Knockan	Harris	Newton, Elgin	Beinn Eighe	Benbecula	New Deer	Carbost, Skye	Fort Augustus	Rannoch	Aros, Mull	Dundee	Culzean Castle	Dunblane
		352	351	349	58	350	345	372	50	49	29	60	47	264	298
<i>Gortyna micacea</i>	1976	—	—	—	166	—	7	—	53	26	80	227	9	64	4
Rosy Rustic	1977	25	1	105	78	115	5	42	116	26	51	183	1	11	3
<i>Bupalus piniaria</i>	1976	—	—	—	2	—	0	—	0	3	1	0	0	4	0
Bordered White	1977	0	0	0	0	1	0	0	0	3	0	0	1	4	1
<i>Panolis flammea</i>	1976	—	—	—	0	—	0	—	1	21	4	0	0	2	0
Pine Beauty	1977	0	0	0	2	0	0	0	0	3	1	0	0	1	0
<i>Cerapteryx graminis</i>	1976	—	—	—	14	—	77	—	100	75	95	183	19	57	30
Antler Moth	1977	66	170	232	17	142	133	13	52	240	114	521	74	28	342
<i>Erannis aurantiaria</i>	1976	—	—	—	8	—	0	—	8	45	287	0	0	0	1
Scarce Umber	1977	18	1	0	72	2	0	0	19	80	1822	0	6	0	0
<i>Operophtera fagata</i>	1976	—	—	—	2	—	0	—	6	7	386	0	0	19	0
Northern Winter Moth	1977	6	0	0	3	3	0	0	0	10	164	0	0	0	0
<i>Apamea sordens</i>	1976	—	—	—	0	—	0	—	0	3	0	0	8	3	1
Rustic Shoulder-knot	1977	0	0	0	1	0	0	2	0	1	0	0	1	1	0
<i>Gortyna flavago</i>	1976	—	—	—	31	—	0	—	0	0	0	0	0	2	0
Frosted Orange	1977	0	0	0	20	0	0	0	0	0	0	0	0	0	0
<i>Mamestra brassicae</i>	1976	—	—	—	1	—	0	—	0	0	0	0	1	0	4
Cabbage Moth	1977	0	0	0	2	0	0	1	0	2	0	0	18	0	10
<i>Noctua pronuba</i>	1976	—	—	—	8	—	0	—	5	7	1	1	15	12	5
Large Yellow Underwing	1977	4	0	5	32	0	0	471	0	3	0	4	11	23	1
<i>Diataraxia oleracea</i>	1976	—	—	—	5	—	0	—	9	1	0	1	2	3	3
Bright-line Brown-eye	1977	23	1	0	14	3	0	46	3	1	0	26	10	6	2
<i>Euxoa nigricans</i>	1976	—	—	—	1	—	0	—	0	0	0	0	2	0	0
Garden Dart	1977	0	0	0	3	0	0	0	0	0	0	0	18	0	1
<i>Apamea secalis</i>	1976	—	—	—	61	—	0	—	27	7	0	20	47	7	9
Common Rustic	1977	11	1	4	76	10	1	32	9	34	0	15	27	19	8
<i>Melanchra persicariae</i>	1976	—	—	—	0	—	0	—	0	0	0	0	0	0	0
Dot Moth	1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Operophtera brumata</i>	1976	—	—	—	5	—	0	—	13	25	169	1	0	4	0
Winter Moth	1977	19	10	0	15	45	0	3	17	24	76	0	6	0	0



## ROTHAMSTED INSECT SURVEY

2(a)  
of moths of economic, or other importance for 1976 and 1977

	Rowardennan	East Craigs	Glentress	Auchincruive	Waterside Mains	Kielder	Rochester	Bedlington	Newton Stewart	Bridge of Dee	Gatehouse of Fleet	Chester le Street	Moorhouse	Newton Rigg	Year	Pest Species
	97	261	339	293	338	296	278	303	326	324	287	39	281	322	1976	<i>Gortyna micacea</i>
	4	16	115	14	187	42	120	36	41	95	65	14	0	—	1976	Rosy Rustic
	9	5	59	5	88	19	25	21	8	71	34	3	0	24	1977	
	0	0	0	1	0	0	0	1	0	0	0	0	0	—	1976	<i>Bupalus piniaria</i>
	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1977	Bordered White
	1	0	0	0	0	0	0	0	0	0	0	0	0	—	1976	<i>Panolis flammea</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1977	Pine Beauty
	5	22	82	13	64	22	157	3	28	71	22	0	407	—	1976	<i>Cerapteryx graminis</i>
	35	32	133	34	88	20	53	3	6	59	9	0	238	40	1977	Antler Moth
	38	0	4	0	22	78	44	0	0	6	6	1	0	—	1976	<i>Erannis aurantiaria</i>
	265	0	9	1	16	28	46	0	0	8	5	—	0	1	1977	Scarce Umber
	13	0	0	0	50	35	174	0	0	18	5	0	0	—	1976	<i>Operophtera fagata</i>
	51	0	0	0	32	15	22	0	1	31	5	—	0	0	1977	Northern Winter Moth
	0	10	2	1	0	0	0	3	0	0	0	1	0	—	1976	<i>Apamea sordens</i>
	0	14	3	2	0	1	0	7	0	0	1	5	0	4	1977	Rustic Shoulder-knot
	0	0	0	0	16	0	0	1	1	7	6	0	0	—	1976	<i>Gortyna flavago</i>
	0	0	0	0	6	0	2	0	0	3	1	0	0	0	1977	Frosted Orange
	1	2	0	1	0	0	6	3	1	0	0	10	0	—	1976	<i>Mamestra brassicae</i>
	0	3	0	0	0	1	7	8	6	1	0	9	0	2	1977	Cabbage Moth
	6	7	11	14	120	2	5	9	10	2	20	8	1	—	1976	<i>Noctua pronuba</i>
	2	1	8	17	131	2	4	4	6	11	9	5	4	10	1977	Large Yellow Underwing
	1	16	3	4	15	1	0	5	11	0	5	10	0	—	1976	<i>Diataraxia oleracea</i>
	1	7	3	15	17	0	4	14	26	4	3	7	0	6	1977	Bright-line Brown-eye
	0	7	1	0	0	0	0	1	0	0	0	1	0	—	1976	<i>Euxoa nigricans</i>
	0	4	2	0	0	4	0	4	3	0	0	2	0	1	1977	Garden Dart
	4	99	17	51	43	12	4	27	23	12	17	92	2	—	1976	<i>Apamea secalis</i>
	6	63	28	56	53	17	10	153	53	94	40	78	0	116	1977	Common Rustic
	0	0	0	0	0	0	0	0	0	0	0	0	0	—	1976	<i>Melanchna persicariae</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1977	Dot Moth
	1074	1	4	0	33	99	241	1	7	66	94	0	0	—	1976	<i>Operophtera brumata</i>
	1079	1	20	0	307	28	168	6	36	70	87	—	0	6	1977	Winter Moth

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Pest Species	Year	Middleton in Teesdale	Bolam	Windermere	Wykeham	Tow Hill	Baldersby	Leighton Moss	Castletown, I.O.M.	Malham Tarn	Harrogate	Acomb	Spurn Head	Edale	Alderley Edge
		263	312	323	187	116	315	133	306	45	68	363	131	365	348
<i>Gortyna micacea</i>	1976	19	55	10	55	7	62	106	46	0	13	—	19	—	—
Rosy Rustic	1977	9	16	1	19	5	15	53	47	0	5	2	31	0	10
<i>Bupalus piniaria</i>	1976	0	0	0	3	0	0	0	0	0	0	—	0	—	—
Bordered White	1977	0	0	0	9	0	0	0	0	0	0	1	0	0	0
<i>Panolis flammea</i>	1976	0	0	0	13	0	0	0	0	0	0	—	0	—	—
Pine Beauty	1977	0	0	0	4	0	0	0	0	0	0	0	0	0	0
<i>Cerapteryx graminis</i>	1976	240	22	113	15	895	22	31	12	126	1	—	71	—	—
Antler Moth	1977	54	13	34	1	278	6	8	5	23	0	0	64	111	8
<i>Erannis aurantiaria</i>	1976	6	2	29	—	10	0	3	0	3	1	—	0	—	—
Scarce Umber	1977	4	0	26	2	3	1	1	0	10	0	0	0	6	—
<i>Operophtera fagata</i>	1976	3	0	5	—	8	0	12	1	11	0	—	0	—	—
Northern Winter Moth	1977	12	0	1	0	1	0	0	0	13	0	0	0	7	—
<i>Apamea sordens</i>	1976	0	6	0	0	13	3	2	4	3	0	—	11	—	—
Rustic Shoulder-knot	1977	0	9	1	1	8	2	1	5	1	0	3	5	4	3
<i>Gortyna flavago</i>	1976	0	0	0	0	0	3	3	1	0	0	—	1	—	—
Frosted Orange	1977	0	1	0	1	0	1	0	1	0	0	0	0	1	1
<i>Mamestra brassicae</i>	1976	4	11	0	0	0	7	1	0	1	1	—	0	—	—
Cabbage Moth	1977	6	20	1	0	0	3	1	3	0	1	1	1	1	3
<i>Noctua pronuba</i>	1976	72	9	35	5	35	12	5	63	74	9	—	170	—	—
Large Yellow Underwing	1977	43	7	15	3	33	7	1	32	32	3	2	36	24	15
<i>Diataraxia oleracea</i>	1976	18	12	1	4	5	9	2	9	1	3	—	43	—	—
Bright-line Brown-eye	1977	22	8	1	1	7	39	9	20	0	0	12	121	46	3
<i>Euxoa nigricans</i>	1976	9	0	0	0	0	2	0	0	0	0	—	1	—	—
Garden Dart	1977	0	1	0	0	0	0	0	0	0	0	0	2	0	0
<i>Apamea secalis</i>	1976	25	129	21	35	3	85	6	275	3	54	—	79	—	—
Common Rustic	1977	51	88	26	12	3	42	2	208	1	40	1	32	45	102
<i>Melanchra persicariae</i>	1976	0	0	17	0	0	0	0	0	0	0	—	0	—	—
Dot Moth	1977	0	0	4	0	0	0	1	0	0	1	0	1	0	0
<i>Operophtera brumata</i>	1976	17	1	446	—	64	11	17	4	21	6	—	0	—	—
Winter Moth	1977	2	4	482	0	24	5	4	19	3	4	3	2	72	—



ROTHAMSTED INSECT SURVEY

(2b)  
of moths of economic, or other importance for 1976 and 1977

	Riseholme	Bangor	Gleadthorpe	Matlock	Gibraltar Point	Nantclwyd	Empingham	Caythorpe	Wells next the Sea	Glyn Ceiriog	Shardlow	Stoke on Tern	Sutton Bonington	Sutton Bonington	Year	Pest Species
	96	35	257	279	223	243	280	202	274	244	310 & 378	321	201	168		
	28	1	100	15	35	118	12	26	3	51	43	56	17	22	1976	<i>Gortyna micacea</i>
	13	0	82	5	19	62	1	22	0	61	14	27	22	29	1977	Rosy Rustic
	0	0	0	1	0	1	0	0	0	0	0	1	0	0	1976	<i>Bupalus piniaria</i>
	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1977	Bordered White
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1976	<i>Panolis flammea</i>
	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1977	Pine Beauty
	0	6	4	4	14	9	0	0	0	16	3	0	0	0	1976	<i>Cerapteryx graminis</i>
	2	1	2	2	7	1	0	4	0	5	2	1	1	0	1977	Antler Moth
	0	0	1	0	0	9	1	1	0	1	1	5	2	2	1976	<i>Erannis aurantiaria</i>
	0	0	3	0	0	12	0	0	0	3	0	0	0	0	1977	Scarce Umber
	0	0	17	1	1	1	0	0	0	0	0	0	0	0	1976	<i>Operophtera fagata</i>
	0	0	4	0	0	0	0	0	0	0	0	0	0	0	1977	Northern Winter Moth
	5	0	0	4	1	3	0	2	2	8	3	0	5	2	1976	<i>Apamea sordens</i>
	0	1	0	3	1	3	0	5	0	5	0	0	1	0	1977	Rustic Shoulder-knot
	2	0	7	1	1	5	0	3	0	0	7	9	2	6	1976	<i>Gortyna flavago</i>
	0	0	12	0	0	0	0	1	0	0	0	2	2	6	1977	Frosted Orange
	2	11	6	5	2	0	13	1	0	2	3	0	4	2	1976	<i>Mamestra brassicae</i>
	0	4	0	7	0	0	4	5	1	0	3	0	1	0	1977	Cabbage Moth
	2	22	15	24	9	24	28	14	3	12	4	6	7	16	1976	<i>Noctua pronuba</i>
	6	6	6	10	5	2	42	30	5	9	1	14	4	56	1977	Large Yellow Underwing
	15	16	66	10	6	3	40	9	0	0	10	13	9	22	1976	<i>Diataraxia oleracea</i>
	10	1	28	7	13	0	3	17	4	0	5	9	3	22	1977	Bright-line Brown-eye
	0	0	1	1	0	0	4	6	0	1	1	0	1	1	1976	<i>Euxoa nigricans</i>
	1	0	2	0	0	0	2	16	0	0	1	0	0	0	1977	Garden Dart
	43	48	75	55	27	48	40	26	17	41	34	101	25	70	1976	<i>Apamea secalis</i>
	17	36	27	48	28	26	46	21	14	51	8	21	62	16	1977	Common Rustic
	0	0	0	1	0	0	2	1	0	0	0	3	0	4	1976	<i>Melanchra persicariae</i>
	0	0	0	0	0	0	3	0	0	0	0	0	0	0	1977	Dot Moth
	2	0	6	5	0	15	8	3	2	22	0	5	4	3	1976	<i>Operophtera brumata</i>
	9	0	6	2	0	46	10	9	2	36	5	17	5	6	1977	Winter Moth



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Pest Species	Year	216 & 381	Terrington	Rowton	Pallaskenry	Wolverhampton	Methwold Fen	Staylittle	Aberystwyth	Monks Wood	Pontrhydfendigaid	Broom's Barn	Tregaron	Llysdinam	Wellesbourne	Waresley	Luddington
		154	207	267	301	226	340	94	333	88	331	111	359	360	355		
<i>Gortyna micacea</i> Rosy Rustic	1976	21	242	45	0	20	14	—	40	104	0	80	85	—	—	—	—
	1977	11	82	10	0	9	2	14	23	26	1	41	14	9	19	4	
<i>Bupalus piniaria</i> Bordered White	1976	0	0	0	0	0	6	—	0	20	1	0	1	—	—	—	—
	1977	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Panolis flammea</i> Pine Beauty	1976	0	0	0	0	0	0	—	1	0	0	0	14	—	—	—	—
	1977	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
<i>Cerapteryx graminis</i> Antler Moth	1976	0	1	0	0	2	411	—	0	274	0	583	63	—	—	—	—
	1977	0	0	0	0	0	94	10	0	44	0	112	7	0	0	0	0
<i>Erannis aurantiaria</i> Scarce Umber	1976	0	0	0	0	0	5	—	1	35	1	94	0	—	—	—	—
	1977	0	4	—	0	0	2	1	0	3	1	26	27	0	0	0	1
<i>Operophtera fagata</i> Northern Winter Moth	1976	0	0	0	0	0	1	—	0	1	0	0	0	—	—	—	—
	1977	0	0	—	0	0	0	9	0	0	0	36	0	0	1	0	0
<i>Apamea sordens</i> Rustic Shoulder-knot	1976	1	1	1	0	0	0	—	3	0	0	0	0	—	—	—	—
	1977	1	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0
<i>Gortyna flavago</i> Frosted Orange	1976	0	10	0	0	7	8	—	2	3	0	0	6	—	—	—	—
	1977	1	0	1	0	3	0	2	0	1	0	6	0	0	5	0	0
<i>Mamestra brassicae</i> Cabbage Moth	1976	7	0	3	0	125	1	—	0	6	12	0	0	—	—	—	—
	1977	6	0	0	0	38	0	0	1	1	2	0	2	0	0	0	12
<i>Noctua pronuba</i> Large Yellow Underwing	1976	1	4	100	3	2	4	—	1	62	4	84	8	—	—	—	—
	1977	3	2	11	1	4	0	13	10	20	2	26	2	2	8	14	14
<i>Diataraxia oleracea</i> Bright-line Brown-eye	1976	4	5	1	1	16	1	—	0	7	0	35	1	—	—	—	—
	1977	8	10	1	0	9	0	2	2	6	2	9	0	3	8	11	11
<i>Euxoa nigricans</i> Garden Dart	1976	1	0	0	0	0	0	—	2	0	5	0	0	—	—	—	—
	1977	3	0	1	1	0	0	0	4	0	3	0	0	0	10	8	8
<i>Apamea secalis</i> Common Rustic	1976	8	223	30	1	11	8	—	18	33	13	57	29	—	—	—	—
	1977	14	10	12	0	12	6	113	29	34	26	36	12	15	46	14	14
<i>Melanchra persicariae</i> Dot Moth	1976	0	0	0	0	17	0	—	1	0	1	2	0	—	—	—	—
	1977	1	0	0	0	10	0	1	0	0	0	1	0	0	2	1	1
<i>Operophtera brumata</i> Winter Moth	1976	1	98	0	0	1	56	—	0	117	0	213	75	—	—	—	—
	1977	2	45	—	0	0	28	42	5	12	1	293	158	1	17	6	6

## ROTHAMSTED INSECT SURVEY

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	Cockayne Hatley	Hereford	Pershore	Shuttleworth	Rhandirmwyn	Trelech	Woodstock	Rothamsted (Barnfield)	Rothamsted (Allotments)	Rothamsted (Geescroft)	Writtle	Dale Fort	Chingford	Whiteford	Year	Pest Species
	336	212	195	283	346	233	182	1	34	22	87	17	356	332		
10	25	18	19	—	—	208	2	14	33	13	8	6	—	104	1976	<i>Gortyna micacea</i>
13	49	12	11	49	93	0	0	10	3	8	1	0	0	50	1977	Rosy Rustic
0	0	0	0	—	0	0	0	0	0	0	0	0	—	18	1976	<i>Bupalus piniaria</i>
0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1977	Bordered White
0	0	1	0	—	0	0	0	0	0	0	0	0	—	91	1976	<i>Panolis flammea</i>
0	0	0	0	1	0	0	0	0	0	0	0	0	0	65	1977	Pine Beauty
0	2	1	0	—	23	0	0	0	0	0	0	1	—	96	1976	<i>Cerapteryx graminis</i>
0	1	0	0	24	13	0	0	0	0	0	0	0	0	28	1977	Antler Moth
2	1	1	3	—	5	1	0	0	0	20	0	0	—	0	1976	<i>Erannis aurantiaria</i>
0	2	4	0	76	5	4	0	0	0	1	0	—	0	0	1977	Scarce Umber
0	0	3	1	—	1	1	0	0	0	0	0	0	—	0	1976	<i>Operophtera fagata</i>
1	0	0	0	4	0	0	0	0	0	0	0	—	0	0	1977	Northern Winter Moth
1	0	0	2	—	0	13	4	1	1	1	1	0	—	2	1976	<i>Apamea sordens</i>
0	0	0	0	4	0	0	3	0	0	0	1	0	0	1	1977	Rustic Shoulder-knot
0	2	0	1	—	11	0	0	0	0	0	0	2	—	6	1976	<i>Gortyna flavago</i>
1	0	1	0	4	8	0	0	0	0	0	0	0	0	3	1977	Frosted Orange
0	0	3	3	—	0	28	3	0	2	6	0	—	—	1	1976	<i>Mamestra brassicae</i>
0	0	3	1	0	0	0	0	0	0	0	0	0	2	0	1977	Cabbage Moth
16	3	99	3	—	33	18	6	3	201	28	18	—	—	27	1976	<i>Noctua pronuba</i>
16	2	116	14	87	35	8	34	0	128	7	17	6	16	16	1977	Large Yellow Underwing
6	0	6	5	—	8	6	8	2	19	7	11	—	—	8	1976	<i>Diataraxia oleracea</i>
3	0	3	6	11	2	0	2	2	1	1	9	3	0	0	1977	Bright-line Brown-eye
26	0	9	0	—	0	6	8	26	61	5	1	—	—	0	1976	<i>Euxoa nigricans</i>
29	0	4	1	0	0	11	2	1	18	3	0	0	0	0	1977	Garden Dart
23	15	59	21	—	211	66	68	15	255	129	15	—	—	109	1976	<i>Apamea secalis</i>
38	27	16	11	40	110	3	94	7	37	28	37	3	10	10	1977	Common Rustic
1	0	2	0	—	1	12	0	1	2	2	2	—	—	6	1976	<i>Melanchnra persicariae</i>
0	0	2	0	1	0	0	0	0	0	0	1	0	0	4	1977	Dot Moth
4	2	96	9	—	20	3	1	0	85	2	2	—	—	3	1976	<i>Operophtera brumata</i>
7	7	128	35	476	41	0	0	0	110	0	—	0	1	1	1977	Winter Moth



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Pest Species	Year	Chigwell Row 305	Westonbirt 292	Gower 213	Oxwich 357	Cleppa Park 228	Hurley 180	Lambourne 328	Sheppey 370	Whiteknights 361	Stratfield Mortimer 16	Bath 130	Windlesham 171	East Malling 178	Wisley 289
<i>Gortyna micacea</i> Rosy Rustic	1976	4	3	68	—	4	8	1	—	22	0	0	1	3	3
	1977	0	5	33	116	11	2	0	4	17	0	0	0	1	1
<i>Bupalus piniaria</i> Bordered White	1976	0	1	0	—	1	0	0	—	0	1	0	27	0	3
	1977	0	1	0	1	0	0	0	0	0	0	0	18	0	1
<i>Panolis flammea</i> Pine Beauty	1976	0	0	0	—	0	0	0	—	0	0	0	6	0	0
	1977	0	1	0	0	0	0	0	0	0	0	0	22	0	2
<i>Cerapteryx graminis</i> Antler Moth	1976	0	0	9	—	3	0	8	—	0	0	0	0	1	0
	1977	0	1	0	28	1	0	0	0	0	0	0	0	1	1
<i>Erannis aurantiaria</i> Scarce Umber	1976	0	18	0	—	0	4	0	—	1	4	0	49	0	6
	1977	1	6	0	2	—	5	0	0	1	6	0	18	0	2
<i>Operophtera fagata</i> Northern Winter Moth	1976	3	4	0	—	0	7	0	—	0	0	0	0	0	9
	1977	0	1	0	2	—	4	0	0	0	0	0	0	0	0
<i>Apamea sordens</i> Rustic Shoulder-knot	1976	1	0	0	—	0	2	4	—	0	1	0	0	1	1
	1977	0	1	0	2	0	2	2	0	0	0	0	0	0	0
<i>Gortyna flavago</i> Frosted Orange	1976	0	0	12	—	0	0	2	—	1	0	0	0	0	1
	1977	0	0	0	9	0	1	0	0	1	0	0	0	0	0
<i>Mamestra brassicae</i> Cabbage Moth	1976	2	1	4	—	2	0	0	—	0	1	12	2	5	5
	1977	3	0	0	0	0	0	0	6	0	1	11	7	1	1
<i>Noctua pronuba</i> Large Yellow Underwing	1976	14	32	8	—	12	3	10	—	7	22	5	13	6	19
	1977	20	21	14	63	14	3	12	20	6	21	6	9	2	17
<i>Diataraxia oleracea</i> Bright-line Brown-eye	1976	2	0	0	—	3	0	3	—	11	4	11	6	1	4
	1977	0	0	1	39	0	1	4	10	2	0	4	0	0	1
<i>Euxoa nigricans</i> Garden Dart	1976	1	0	0	—	0	0	1	—	0	0	0	3	152	0
	1977	1	0	0	0	0	0	0	20	0	0	0	0	19	0
<i>Apamea secalis</i> Common Rustic	1976	62	178	14	—	26	32	13	—	25	18	58	14	17	19
	1977	20	6	5	124	27	68	18	91	34	11	24	6	10	32
<i>Melanchra persicariae</i> Dot Moth	1976	0	0	5	—	0	0	1	—	0	1	1	0	0	0
	1977	0	0	0	0	0	1	0	1	0	1	0	0	0	0
<i>Operophtera brumata</i> Winter Moth	1976	2	24	9	—	2	12	0	—	0	63	4	38	3	10
	1977	1	32	15	51	—	10	13	1	27	87	11	10	8	7



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	Wye	Alice Holt	Haslemere	Lydd	Petworth	Brighton (Patcham)	Denny Lodge	Starcross	Yarner Wood	Yarner Wood	Slapton Ley	Rosewarne	Guernsey	Jersey	Year	Pest Species
	181	46	219	366	319	220	368	149	266	308	67	114	252	146	1976	<i>Gortyna micacea</i>
	7	14	17	—	39	8	—	—	10	3	55	5	5	16	1977	Rosy Rustic
	7	5	6	2	10	0	0	4	1	2	14	10	1	3		
	0	1	0	—	0	0	—	—	0	0	0	0	0	0	1976	<i>Bupalus piniaria</i>
	0	0	1	0	0	0	2	0	0	0	0	0	0	0	1977	Bordered White
	0	0	1	—	1	0	—	—	0	0	0	0	0	0	1976	<i>Panolis flammea</i>
	0	2	0	1	0	0	0	0	0	1	0	1	0	0	1977	Pine Beauty
	1	11	0	—	0	0	—	—	6	2	0	0	0	0	1976	<i>Cerapteryx graminis</i>
	0	6	0	3	0	0	0	1	3	2	0	0	0	0	1977	Antler Moth
	1	26	10	—	3	0	—	—	30	73	0	0	0	0	1976	<i>Erannis aurantiaria</i>
	3	2	5	0	0	0	5	0	18	34	0	0	0	0	1977	Scarce Umber
	2	11	2	—	1	0	—	—	0	0	0	0	0	0	1976	<i>Operophtera fagata</i>
	0	4	0	0	0	0	1	0	0	0	0	0	0	0	1977	Northern Winter Moth
	2	0	0	—	0	2	—	—	0	0	0	0	0	0	1976	<i>Apamea sordens</i>
	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1977	Rustic Shoulder-knot
	1	0	0	—	0	0	—	—	1	2	2	0	0	0	1976	<i>Gortyna flavago</i>
	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1977	Frosted Orange
	5	0	3	—	0	3	—	—	0	0	11	16	22	15	1976	<i>Mamestra brassicae</i>
	5	0	2	0	0	7	0	1	0	0	1	1	2	0	1977	Cabbage Moth
	15	11	18	—	11	2	—	—	76	135	56	4	8	4	1976	<i>Noctua pronuba</i>
	28	18	6	2	0	12	6	1	34	15	6	9	2	3	1977	Large Yellow Underwing
	20	2	18	—	0	31	—	—	17	11	7	17	67	8	1976	<i>Diataraxia oleracea</i>
	11	2	3	5	0	11	0	0	5	0	2	4	16	2	1977	Bright-line Brown-eye
	3	0	1	—	0	1	—	—	0	0	0	3	0	0	1976	<i>Euxoa nigricans</i>
	4	1	0	1	0	1	0	0	0	0	0	2	0	1	1977	Garden Dart
	15	11	79	—	17	39	—	—	149	55	25	24	20	10	1976	<i>Apamea secalis</i>
	22	2	10	49	11	20	0	7	20	11	27	18	12	3	1977	Common Rustic
	5	0	3	—	3	11	—	—	4	4	16	0	0	1	1976	<i>Melanchra persicariae</i>
	5	0	1	0	1	0	0	0	2	0	2	1	0	0	1977	Dot Moth
	37	78	15	—	17	1	—	—	185	401	8	0	6	1	1976	<i>Operophtera brumata</i>
	30	44	22	0	0	2	18	4	533	1324	3	0	0	0	1977	Winter Moth

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Pest Species	Year	Inverpolly	Knockan	Harris	Newton, Elgin	Beinn Eithe	Benbecula	New Deer	Carbost, Skye	Fort Augustus	Rannoch	Aros, Mull	Dundee	Culzean Castle	Dunblane
		352	351	349	58	350	345	372	50	49	29	60	47	264	298
<i>Abraxas grossulariata</i> Magpie Moth	1976	—	—	—	0	—	32	—	10	0	0	6	0	1	4
	1977	10	1	17	0	54	10	0	7	0	0	13	0	0	1
<i>Agrotis segetum</i> Turnip Moth	1976	—	—	—	1	—	0	—	0	0	0	0	1	0	0
	1977	0	0	0	0	0	0	0	0	0	0	0	3	0	0
<i>Erannis defoliaria</i> Mottled Umber	1976	—	—	—	2	—	0	—	4	3	33	0	6	2	0
	1977	5	0	0	2	8	0	0	23	12	69	0	6	0	0
<i>Phlogophora meticulosa</i> Angle Shades	1976	—	—	—	0	—	0	—	1	6	3	1	0	0	0
	1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alsophila aescularia</i> March Moth	1976	—	—	—	2	—	0	—	0	7	0	0	0	0	0
	1977	0	0	0	5	0	0	0	0	10	0	0	1	1	0
<i>Hepialus humuli</i> Ghost Swift	1976	—	—	—	1	—	1	—	0	0	0	1	0	1	0
	1977	0	0	0	1	3	2	3	4	0	1	1	0	0	0
<i>Hepialus lupulina</i> Common Swift	1976	—	—	—	0	—	0	—	0	3	14	0	1	0	0
	1977	0	0	0	0	0	0	0	0	1	6	0	0	0	0
<i>Agrotis ipsilon</i> Dark Sword Grass	1976	—	—	—	0	—	1	—	4	1	0	0	0	1	0
	1977	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Euproctis chrysorrhoea</i> Brown-tail	1976	—	—	—	0	—	0	—	0	0	0	0	0	0	0
	1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrotis exclamatoris</i> Heart and Dart	1976	—	—	—	7	—	0	—	0	0	0	0	41	12	10
	1977	0	0	0	135	1	0	10	0	1	0	0	32	95	2
<i>Plusia gamma</i> Silver Y	1976	—	—	—	1	—	0	—	1	9	3	8	7	15	10
	1977	1	0	0	1	0	0	1	4	0	0	0	2	2	3
<i>Laphygma exigua</i> Small Mottled Willow	1976	—	—	—	0	—	0	—	0	0	0	0	0	0	0
	1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nycterosea obstipata</i> The Gem	1976	—	—	—	0	—	0	—	1	0	0	0	0	0	0
	1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nomophila noctuella</i> Rush Veneer Pearl	1976	—	—	—	0	—	0	—	0	0	0	0	0	0	0
	1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plutella maculipennis</i> Diamond-back Moth	1976	—	—	—	0	—	2	—	0	0	0	8	211	22	0
	1977	2	8	0	1	0	2	0	0	0	0	5	156	0	0
<i>Udea ferrugalis</i> Rusty Dot Pearl	1976	—	—	—	0	—	0	—	0	0	0	0	0	2	0
	1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0



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	Rowardennan	East Craigs	Glentress	Auchincruive	Waterside Mains	Kielder	Rochester	Bedlington	Newton Stewart	Bridge of Dee	Gatehouse of Fleet	Chester le Street	Moorhouse	Newton Rigg	Year	Pest Species
	97	261	339	293	338	296	278	303	326	324	287	39	281	322	1976	<i>Abraxas grossulariata</i>
	0	0	0	0	1	0	0	4	4	3	0	6	0	0	1977	Magpie Moth
	0	1	0	0	0	0	0	0	4	1	0	0	0	—	1976	<i>Agrotis segetum</i>
	0	1	0	2	0	0	0	0	3	0	1	0	0	2	1977	Turnip Moth
	1359	0	1	0	189	43	16	2	0	102	23	0	0	—	1976	<i>Erannis defoliaria</i>
	7399	0	10	0	174	1	11	1	1	75	40	—	0	2	1977	Mottled Umber
	1	0	2	1	5	2	4	0	2	2	5	0	0	—	1976	<i>Phlogophora meticulosa</i>
	0	0	0	2	4	0	2	2	2	0	4	2	0	1	1977	Angle Shades
	66	0	1	0	0	0	0	0	1	31	48	1	0	—	1976	<i>Alsophila aescularia</i>
	129	0	0	0	40	0	1	0	0	13	24	1	0	1	1977	March Moth
	0	0	1	4	2	0	1	1	2	2	0	0	4	—	1976	<i>Hepialus humuli</i>
	3	0	2	0	3	0	3	2	0	1	0	0	3	2	1977	Ghost Swift
	7	0	1	10	14	2	0	16	0	0	1	0	0	—	1976	<i>Hepialus lupulina</i>
	1	1	0	0	10	1	5	6	0	1	0	1	0	1	1977	Common Swift
	1	0	1	0	1	0	3	0	0	1	3	0	0	—	1976	<i>Agrotis ipsilon</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1977	Dark Sword Grass
	0	0	0	0	0	0	0	0	0	0	0	0	0	—	1976	<i>Euproctis chrysorrhoea</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1977	Brown-tail
	0	42	4	16	15	2	0	49	48	9	7	41	0	—	1976	<i>Agrotis exclamationis</i>
	0	69	53	43	37	1	20	139	139	54	40	161	0	204	1977	Heart and Dart
	2	0	5	2	45	8	5	3	6	48	28	54	2	—	1976	<i>Plusia gamma</i>
	1	1	1	0	7	5	0	9	2	20	14	15	0	8	1977	Silver Y
	0	0	0	0	0	0	0	0	0	0	0	0	0	—	1976	<i>Laphygma exigua</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1977	Small Mottled Willow
	0	0	0	0	0	0	0	0	0	0	0	0	0	—	1976	<i>Nycterosea obstipata</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1977	The Gem
	0	0	0	0	—	0	0	0	0	0	0	0	0	—	1976	<i>Nomophila noctuella</i>
	0	0	0	0	—	0	0	0	0	0	0	0	0	0	1977	Rush Veneer Pearl
	0	1	0	5	—	1	4	2	4	1	0	0	0	—	1976	<i>Plutella maculipennis</i>
	0	2	0	0	—	1	0	2	4	0	1	0	0	0	1977	Diamond-back Moth
	0	0	0	0	—	0	0	0	2	11	5	0	0	—	1976	<i>Udea ferrugalis</i>
	0	0	0	0	—	0	0	0	0	2	0	0	0	0	1977	Rusty Dot Pearl



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Pest Species	Year	Middleton in Teesdale													
		263	312	323	187	116	315	133	306	45	68	363	131	365	348
<i>Abraxas grossulariata</i> Magpie Moth	1976	0	6	0	1	0	12	6	11	0	6	—	2	—	—
	1977	0	2	0	0	0	4	7	12	1	3	3	1	1	4
<i>Agrotis segetum</i> Turnip Moth	1976	0	0	0	0	0	3	0	3	0	0	—	0	—	—
	1977	0	0	0	0	0	4	0	0	0	0	1	2	0	0
<i>Erannis defoliaria</i> Mottled Umber	1976	9	3	88	—	9	5	8	15	11	2	—	0	—	—
	1977	4	0	75	4	0	0	4	13	7	2	0	0	4	—
<i>Phlogophora meticulosa</i> Angle Shades	1976	9	1	31	1	3	10	4	17	4	0	—	4	—	—
	1977	4	3	13	5	7	11	4	11	2	2	0	9	9	4
<i>Alsophila aescularia</i> March Moth	1976	4	3	5	3	0	8	18	0	0	4	—	0	—	—
	1977	2	0	0	12	0	1	36	0	1	0	0	0	0	16
<i>Hepialus humuli</i> Ghost Swift	1976	0	2	0	3	9	0	3	0	2	0	—	0	—	—
	1977	2	1	0	1	2	0	0	0	3	1	1	0	5	0
<i>Hepialus lupulina</i> Common Swift	1976	0	10	0	1	0	1	0	0	5	11	—	199	—	—
	1977	0	6	0	1	0	4	2	0	1	3	0	25	0	85
<i>Agrotis ipsilon</i> Dark Sword Grass	1976	10	0	11	0	4	4	2	1	1	0	—	4	—	—
	1977	0	0	0	0	1	0	1	1	0	0	0	1	0	0
<i>Euproctis chrysorrhoea</i> Brown-tail	1976	0	0	0	0	0	0	0	0	0	0	—	0	—	—
	1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrotis exclamationis</i> Heart and Dart	1976	11	13	59	40	1	24	83	626	0	5	—	98	—	—
	1977	59	217	149	130	4	477	217	475	7	135	116	376	281	122
<i>Plusia gamma</i> Silver Y	1976	240	79	17	6	13	132	35	109	48	16	—	182	—	—
	1977	41	14	1	4	5	59	24	92	2	8	57	95	11	20
<i>Laphygma exigua</i> Small Mottled Willow	1976	0	0	0	0	0	0	0	0	0	0	—	0	—	—
	1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nycterosea obstipata</i> The Gem	1976	0	0	0	0	0	0	0	0	0	0	—	0	—	—
	1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nomophila noctuella</i> Rush Veneer Pearl	1976	0	0	0	0	0	0	0	0	0	0	—	1	—	—
	1977	0	0	—	0	0	0	0	1	0	—	0	0	0	0
<i>Plutella maculipennis</i> Diamond-back Moth	1976	0	10	0	0	0	31	1	0	0	0	—	76	—	—
	1977	0	0	—	0	0	3	0	0	0	—	55	41	1	1
<i>Udea ferrugalis</i> Rusty Dot Pearl	1976	0	0	0	0	0	0	0	0	0	0	—	0	—	—
	1977	0	0	—	0	0	0	0	0	0	—	0	0	0	0

ROTHAMSTED INSECT SURVEY

2(f)  
of moths of economic, or other importance for 1976 and 1977

	Riseholme	Bangor	Gleadthorpe	Matlock	Gibraltar Point	Nantclwyd	Empingham	Caythorpe	Wells next the Sea	Glyn Ceiriog	310 & 378 Shardlow	Stoke on Tern	Sutton Bonington	Sutton Bonington	Year	Pest Species
	96	35	257	279	223	243	280	202	274	244	310 & 378	321	201	168		
	2	0	0	31	0	25	18	5	22	19	0	39	0	0	1976	<i>Abraxas grossulariata</i>
	2	0	0	15	0	4	33	13	18	9	4	22	1	0	1977	Magpie Moth
	2	0	22	1	1	1	22	13	5	0	0	0	3	16	1976	<i>Agrotis segetum</i>
	5	0	13	2	0	0	20	71	11	0	0	0	1	4	1977	Turnip Moth
	12	0	5	3	3	62	5	2	0	64	1	4	4	2	1976	<i>Erannis defoliaria</i>
	4	0	4	0	0	52	2	1	0	39	2	2	0	0	1977	Mottled Umber
	2	3	13	2	7	2	9	2	2	9	1	6	5	1	1976	<i>Phlogophora meticulosa</i>
289	3	3	15	2	9	1	26	37	1	5	7	21	10	7	1977	Angle Shades
	3	0	3	3	1	3	8	8	1	7	4	14	9	7	1976	<i>Alsophila aescularia</i>
	4	0	8	2	0	4	1	0	1	4	1	12	5	0	1977	March Moth
	0	1	1	1	0	1	0	0	0	3	1	0	0	1	1976	<i>Hepialus humuli</i>
	0	0	1	1	0	0	0	0	1	2	0	1	1	0	1977	Ghost Swift
	5	0	8	13	35	2	73	12	28	1	20	3	12	72	1976	<i>Hepialus lupulina</i>
	4	0	14	6	4	0	60	0	2	0	3	0	5	31	1977	Common Swift
	4	1	2	0	5	0	0	0	0	0	0	0	0	2	1976	<i>Agrotis ipsilon</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1977	Dark Sword Grass
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1976	<i>Euproctis chrysorrhoea</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1977	Brown-tail
84	154	140	62	118	235	451	145	23	225	178	231	218	378		1976	<i>Agrotis exclamationis</i>
204	331	587	599	145	1618	1045	725	24	1077	468	548	450	1089		1977	Heart and Dart
	35	3	18	9	63	24	142	15	14	24	4	30	51	15	1976	<i>Plusia gamma</i>
	81	7	7	8	14	34	103	20	17	21	22	51	35	24	1977	Silver Y
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1976	<i>Laphygma exigua</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1977	Small Mottled Willow
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1976	<i>Nycterosea obstipata</i>
	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1977	The Gem
	0	0	0	0	0	0	0	0	0	0	0	—	0	0	1976	<i>Nomophila noctuella</i>
	0	0	0	0	0	0	0	0	0	0	0	—	0	0	1977	Rush Veneer Pearl
31	2	28	151	0	0	101	5	0	3	146	—	40	7		1976	<i>Plutella maculipennis</i>
29	0	40	33	0	0	36	6	0	0	45	—	0	0		1977	Diamond-back Moth
	0	0	0	0	0	0	0	0	0	0	—	0	0		1976	<i>Udea ferrugalis</i>
	0	0	0	0	0	0	0	0	0	0	—	0	0		1977	Rusty Dot Pearl



ROTHAMSTED REPORT FOR 1978, PART 2

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

Pest Species	Year	216 & 381	Terrington	Rowton	Pallaskerry	Wolverhampton	Methwold Fen	Staylittle	Aberystwyth	Monks Wood	Pontrhydfendigaid	Broom's Barn	Tregaron	Llysdinam	Wellesbourne	Waresley	Luddington
		154	207	267	301	226	340	94	333	88	331	111	359	360	355		
<i>Abraxas grossulariata</i>	1976	2	64	55	0	0	3	—	—	—	—	—	—	—	—	—	—
Magpie Moth	1977	2	21	15	0	0	0	10	5	1	44	7	35	10	—	21	2
<i>Agrotis segetum</i>	1976	7	0	0	1	79	0	—	3	0	19	1	0	—	—	—	—
Turnip Moth	1977	4	0	0	0	16	0	1	3	0	15	0	0	10	3	45	—
<i>Erannis defoliaria</i>	1976	1	2	0	0	1	262	—	1	66	5	652	198	—	—	—	—
Mottled Umber	1977	0	3	—	0	0	1	9	1	8	1	365	155	1	6	0	—
<i>Phlogophora meticulosa</i>	1976	4	0	2	0	12	0	—	3	7	0	21	5	—	—	—	—
Angle Shades	1977	14	0	0	0	18	3	3	44	2	5	6	4	4	25	13	—
<i>Alsophila aescularia</i>	1976	8	41	0	0	35	5	—	4	10	9	66	45	—	—	—	—
March Moth	1977	0	43	0	0	1	0	8	2	8	1	63	13	2	26	0	—
<i>Hepialus humuli</i>	1976	0	4	2	0	2	0	—	1	3	0	0	4	—	—	—	—
Ghost Swift	1977	0	0	1	0	0	0	4	0	2	0	0	0	0	0	0	1
<i>Hepialus lupulina</i>	1976	33	21	0	0	74	0	—	1	0	2	0	0	—	—	—	—
Common Swift	1977	7	42	0	0	0	0	0	4	0	2	0	0	1	8	13	—
<i>Agrotis ipsilon</i>	1976	0	0	0	0	2	1	—	0	3	0	27	1	—	—	—	—
Dark Sword Grass	1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—
<i>Euproctis chrysorrhoea</i>	1976	0	0	0	0	0	0	—	0	0	0	0	0	—	—	—	—
Brown-tail	1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—
<i>Agrotis exclamationis</i>	1976	11	85	63	8	67	19	—	100	125	14	168	98	—	—	—	—
Heart and Dart	1977	23	437	70	3	93	353	1130	63	618	20	1376	439	69	104	103	—
<i>Plusia gamma</i>	1976	8	12	0	1	58	4	—	4	98	9	20	9	—	—	—	—
Silver Y	1977	6	0	1	0	56	1	21	17	37	15	29	23	14	92	19	—
<i>Laphygma exigua</i>	1976	0	0	0	0	0	0	—	0	0	1	0	0	—	—	—	—
Small Mottled Willow	1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—
<i>Nycterosea obstipata</i>	1976	0	0	0	0	0	0	—	0	0	0	0	0	—	—	—	—
The Gem	1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—
<i>Nomophila noctuella</i>	1976	0	—	0	0	—	0	—	1	1	0	—	—	—	—	—	—
Rush Veneer Pearl	1977	0	—	0	0	—	0	—	0	0	0	—	—	0	0	0	—
<i>Plutella maculipennis</i>	1976	161	—	1	0	—	1	—	0	20	265	—	—	—	—	—	—
Diamond-back Moth	1977	94	—	0	0	—	0	—	0	5	21	—	—	307	42	37	—
<i>Udea ferrugalis</i>	1976	0	—	11	0	—	2	—	0	1	0	—	—	—	—	—	—
Rusty Dot Pearl	1977	0	—	0	0	—	0	—	0	0	0	—	—	0	0	0	—



ROTHAMSTED INSECT SURVEY

2(g)  
of moths of economic, or other importance for 1976 and 1977

	Cockayne Hatley	Hereford	Pershore	Shuttleworth	Rhandirmwyn	Trelech	Woodstock	Rothamsted (Barnfield)	Rothamsted (Allotments)	Rothamsted (Geescroft)	Writtle	Dale Fort	Chingford	Whiteford	Year	Pest Species
	336	212	195	283	346	233	182	1	34	22	87	17	356	332	1976	<i>Abraxas grossulariata</i>
	4	3	2	0	—	133	6	1	0	14	12	49	—	29	1976	Magpie Moth
	8	21	12	1	7	57	0	0	0	41	1	135	2	20	1977	
	54	0	55	4	—	1	32	11	8	72	22	4	—	1	1976	<i>Agrotis segetum</i>
	187	0	34	7	0	0	0	40	3	21	2	2	1	0	1977	Turnip Moth
	1	2	21	6	—	11	0	0	0	37	0	2	—	3	1976	<i>Erannis defoliaria</i>
	1	2	15	12	737	7	2	0	0	16	0	—	0	0	1977	Mottled Umber
	1	2	11	0	—	14	3	1	0	5	2	22	—	5	1976	<i>Phlogophora meticulosa</i>
	15	45	24	19	17	12	1	1	0	12	6	1	6	7	1977	Angle Shades
	14	21	50	19	—	21	0	1	0	17	3	1	—	6	1976	<i>Alsophila aescularia</i>
	9	3	17	6	25	5	1	2	1	38	1	2	0	9	1977	March Moth
	2	0	1	0	—	13	0	0	0	1	0	0	—	7	1976	<i>Hepialus humuli</i>
	1	2	2	0	0	2	0	0	0	0	0	0	0	3	1977	Ghost Swift
	35	0	30	19	—	0	8	13	8	12	16	18	—	4	1976	<i>Hepialus lupulina</i>
	46	0	9	1	0	0	0	31	25	15	2	2	5	0	1977	Common Swift
	0	0	0	0	—	12	0	0	0	0	1	6	—	3	1976	<i>Agrotis ipsilon</i>
	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1977	Dark Sword Grass
	0	0	0	0	—	0	0	0	0	0	2	0	—	0	1976	<i>Euproctis chrysorrhoea</i>
	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1977	Brown-tail
	73	580	326	103	—	68	173	124	96	495	159	342	—	816	1976	<i>Agrotis exclamationis</i>
	163	389	151	35	435	1128	5	78	13	29	44	2168	5	2162	1977	Heart and Dart
	3	4	18	3	—	18	21	9	3	17	72	19	—	38	1976	<i>Plusia gamma</i>
	32	3	48	29	65	11	0	18	5	51	25	92	22	5	1977	Silver Y
	0	0	0	0	—	0	0	0	0	0	0	0	—	0	1976	<i>Laphygma exigua</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1977	Small Mottled Willow
	0	0	0	0	—	0	0	0	0	0	0	0	—	0	1976	<i>Nycterosea obstipata</i>
	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1977	The Gem
	0	0	0	0	—	0	0	0	0	0	0	7	—	—	1976	<i>Nomophila noctuella</i>
	0	0	0	0	0	0	0	0	0	0	0	1	0	—	1977	Rush Veneer Pearl
	244	5	10	40	—	0	0	548	576	6	34	16	—	—	1976	<i>Plutella maculipennis</i>
	89	28	2	14	1	0	1	259	86	4	112	9	7	—	1977	Diamond-back Moth
	0	1	0	1	—	1	0	0	0	0	1	49	—	—	1976	<i>Udea ferrugalis</i>
	0	0	0	0	3	0	0	0	0	0	0	2	0	—	1977	Rusty Dot Pearl

ROTHAMSTED REPORT FOR 1978, PART 2

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

Pest Species	Year	Chigwell Row	Westonbirt	Gower	Oxwich	Cleppa Park	Hurley	Lambourne	Sheppey	Whiteknights	Stratfield Mortimer	Bath	Windlesham	East Malling	Wisley
		305	292	213	357	228	180	328	370	361	16	130	171	178	289
<i>Abraxas grossulariata</i> Magpie Moth	1976	3	2	14	—	0	3	0	—	0	9	0	0	0	0
	1977	3	3	13	31	0	5	3	3	0	8	0	0	0	0
<i>Agrotis segetum</i> Turnip Moth	1976	4	0	0	—	0	2	0	—	2	5	0	3	6	6
	1977	1	0	0	3	0	0	3	5	2	2	0	0	1	3
<i>Erannis defoliaria</i> Mottled Umber	1976	0	96	11	—	0	25	2	—	4	13	0	76	2	18
	1977	1	55	26	26	—	16	1	0	2	15	0	30	1	5
<i>Phlogophora meticulosa</i> Angle Shades	1976	3	4	8	—	3	1	1	—	0	0	0	1	1	2
	1977	6	23	1	19	0	3	19	0	1	1	5	1	2	9
<i>Alsophila aescularia</i> March Moth	1976	0	1	3	—	1	10	5	—	2	15	0	8	1	9
	1977	1	5	11	13	1	11	2	0	15	13	0	5	0	4
<i>Hepialus humuli</i> Ghost Swift	1976	0	0	1	—	0	0	2	—	0	0	0	0	2	0
	1977	0	0	0	0	1	0	1	0	0	0	0	0	0	0
<i>Hepialus lupulina</i> Common Swift	1976	31	0	2	—	0	15	39	—	48	5	0	7	4	0
	1977	19	6	3	0	0	3	6	34	91	4	0	13	0	0
<i>Agrotis ipsilon</i> Dark Sword Grass	1976	0	0	0	—	0	1	1	—	0	1	0	0	0	1
	1977	0	3	0	2	0	0	0	0	0	0	0	0	0	0
<i>Euproctis chrysorrhoea</i> Brown-tail	1976	0	0	0	—	0	0	0	—	0	0	0	0	16	0
	1977	0	0	0	0	0	0	0	285	0	0	0	0	0	0
<i>Agrotis exclamatoris</i> Heart and Dart	1976	57	62	180	—	622	119	167	—	40	88	155	111	16	106
	1977	11	169	190	4337	268	41	307	62	7	38	54	31	8	53
<i>Plusia gamma</i> Silver Y	1976	35	20	33	—	8	2	3	—	9	8	2	29	3	28
	1977	63	85	24	138	0	3	7	43	6	24	3	46	4	28
<i>Laphygma exigua</i> Small Mottled Willow	1976	0	0	0	—	0	0	0	—	0	0	0	0	0	0
	1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nycterosea obstipata</i> The Gem	1976	0	0	0	—	1	0	0	—	0	0	0	0	0	0
	1977	0	0	0	9	0	0	0	0	0	0	0	0	0	0
<i>Nomophila noctuella</i> Rush Veneer Pearl	1976	0	0	0	—	0	0	0	—	0	0	0	0	0	2
	1977	0	0	0	—	0	0	0	0	0	0	0	0	0	0
<i>Plutella maculipennis</i> Diamond-back Moth	1976	10	0	0	—	137	1	40	—	0	2	0	4	640	490
	1977	21	0	0	—	55	3	8	137	0	1	0	2	200	190
<i>Udea ferrugalis</i> Rusty Dot Pearl	1976	0	0	0	—	1	0	1	—	0	0	0	0	0	0
	1977	0	0	0	—	0	0	0	0	0	0	0	0	0	0



## ROTHAMSTED INSECT SURVEY

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of moths of economic, or other importance for 1976 and 1977

	Wye	Alice Holt	Haslemere	Lydd	Petworth	Brighton (Patcham)	Denny Lodge	Starcross	Yarner Wood	Yarner Wood	Slapton Ley	Rosewarne	Guernsey	Jersey	Year	Pest Species
	181	46	219	366	319	220	368	149	266	308	67	114	252	146	1976	<i>Abraxas grossulariata</i>
	31	0	0	—	1	22	—	—	1	0	0	7	47	5	1976	<i>Abraxas grossulariata</i>
	39	1	0	13	1	14	0	0	2	0	10	4	28	3	1977	Magpie Moth
	12	3	2	—	2	3	—	—	10	21	3	8	14	0	1976	<i>Agrotis segetum</i>
	16	0	1	0	1	1	0	2	0	0	0	4	3	1	1977	Turnip Moth
	24	82	14	—	4	0	—	—	78	145	2	0	0	0	1976	<i>Erannis defoliaria</i>
	5	22	17	0	0	0	31	0	69	171	0	0	0	0	1977	Mottled Umber
	5	1	2	—	5	2	—	—	8	15	6	1	0	0	1976	<i>Phlogophora meticulosa</i>
	21	4	4	3	0	0	1	1	11	4	3	0	0	1	1977	Angle Shades
	40	20	11	—	10	0	—	—	29	34	9	1	0	6	1976	<i>Alsophila aescularia</i>
	27	13	4	0	5	0	4	0	17	17	1	3	0	3	1977	March Moth
	0	2	0	—	7	0	—	—	1	0	1	3	0	0	1976	<i>Hepialus humuli</i>
	0	0	1	0	3	0	0	0	0	0	0	1	0	0	1977	Ghost Swift
	20	2	0	—	10	2	—	—	1	0	1	3	2	0	1976	<i>Hepialus lupulina</i>
	55	2	1	54	7	1	2	0	0	0	0	3	0	0	1977	Common Swift
	0	0	0	—	0	2	—	—	7	18	0	0	0	1	1976	<i>Agrotis ipsilon</i>
	3	0	0	1	0	0	0	1	2	0	1	0	0	0	1977	Dark Sword Grass
	1	0	0	—	0	0	—	—	0	0	0	0	0	0	1976	<i>Euproctis chrysorrhoea</i>
	2	0	0	10	0	9	0	0	0	0	0	0	0	0	1977	Brown-tail
	325	210	148	—	420	203	—	—	2472	12489	4094	997	213	144	1976	<i>Agrotis exclamationis</i>
	219	310	67	62	39	34	12	359	523	136	665	576	56	94	1977	Heart and Dart
	19	33	24	—	9	7	—	—	14	18	15	24	7	18	1976	<i>Plusia gamma</i>
	82	25	42	16	9	24	5	11	73	70	24	62	8	26	1977	Silver Y
	0	0	0	—	0	0	—	—	0	0	0	0	0	0	1976	<i>Laphygma exigua</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1977	Small Mottled Willow
	0	0	0	—	0	0	—	—	0	0	0	0	0	0	1976	<i>Nycterosea obstipata</i>
	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1977	The Gem
	0	4	2	—	—	0	—	—	0	0	4	2	1	3	1976	<i>Nomophila noctuella</i>
	0	0	0	0	—	0	0	0	0	0	0	0	0	0	1977	Rush Veneer Pearl
	11	54	49	—	—	66	—	—	0	0	3	725	707	96	1976	<i>Plutella maculipennis</i>
	42	36	24	85	—	35	0	114	0	0	0	182	281	85	1977	Diamond-back Moth
	7	1	0	—	—	0	—	—	0	0	5	20	4	3	1976	<i>Udea ferrugalis</i>
	2	0	0	0	—	0	0	0	0	0	0	3	0	1	1977	Rusty Dot Pearl



ROTHAMSTED REPORT FOR 1978, PART 2

TABLE 3

Belfast

The Rothamsted Insect Survey—Suction Traps: four-weekly total catches of aphids of economic, or other, interest 1978

Week Numbers	13-16	17-20	21-24	25-28	29-32	33-36	37-40	41-44
<i>Acyrtosiphon pisum</i>				1		1		
<i>Aphis fabae</i> grp.				6	78	11	1	1
<i>Aphis</i> spp.				1		1		
<i>Amphorophora rubi</i>				1				
<i>Aulacorthum solani</i>			6			2	1	
<i>Brachycaudus helichrysi</i>		1	463	84	5	5	18	2
<i>Brevicoryne brassicae</i>								2
<i>Cavariella aegopodii</i>		1	32	27	3			
<i>Cinara</i> spp.				3				
<i>Drepanosiphum platanoidis</i>		30	3858	17	8	4	2	2
<i>Dysaphis plantaginea</i>				6	1	3	4	2
<i>Elatobium abietinum</i>		52	196	4				
<i>Eriosoma ulmi</i>			2	16	2	3	3	
<i>Hyalopterus pruni</i>				19	11	16	1	
<i>Hyperomyzus lactucae</i>			3		2			2
<i>Macrosiphum euphorbiae</i>		1	23	14	29	1	1	1
<i>Megoura viciae</i>								
<i>Metopolophium dirhodum</i>		3	9	9	8		6	3
<i>Metopolophium festucae</i>			17	3	1		3	3
<i>Myzus ascalonicus</i>		9	35	3				1
<i>Myzus certus</i>							1	
<i>Myzus ornatus</i>		1	5			1		4
<i>Myzus persicae</i> grp.			1		2	1	1	
<i>Nasonovia ribis nigri</i>			2	3	2		4	1
<i>Pemphigus</i> spp.					1	3	25	49
<i>Pentatrachopus fragaefoli</i>								
<i>Phorodum humuli</i>			2	2	2			
<i>Phyllaphis fagi</i>			10	31	1			
<i>Rhopalosiphum insertum</i>				11	85	193	788	397
<i>Rhopalosiphum maidis</i>					5			
<i>Rhopalosiphum padi</i>			273	56	297	238	7976	3090
<i>Sitobion avenae</i>					14	4		3
<i>Sitobion fragariae</i>			12	2	4	1		18

## ROTHAMSTED INSECT SURVEY

### Neuroptera in the Rothamsted Insect Survey, 1976–78

One species has been added to the list trapped; *Hemerobius pini*, taken once in 1977 at Starcross. *H. atrifrons* was again taken at Elgin, in 1977. *Chrysopa phyllochroma* was taken in 1977 at Broom's Barn. *Symphorobius* spp., usually rare in trap catches, occurred in 1976 at four southern sites, Hereford, Rothamsted, Silwood and Writtle, but in 1977 *S. pygmaeus* only was recorded once each at Hereford and Shardlow and in 1978 *S. pellucidus* once at Rothamsted.

*Chrysopa carnea* was more abundant in most traps in 1976 than in any previous or subsequent year. However, fewer were caught in 1976 than in 1975 at Copenhagen, while at Elgin more were caught in 1977. In every other trap, numbers declined in 1977 and again in 1978. The very mild autumn of 1978 may have caused the unusually large increases in catch in weeks 41–44 in almost all the English traps. The phenology summarised in earlier reports (*Rothamsted Report for 1972*, pt. 2, 208–210; *Rothamsted Report for 1975*, pt. 2, 126–128), particularly the dramatic drop in catches from week 45 onwards, has been further confirmed. The end of flight activity in *C. carnea* has been shown to be a very sensitive response to photoperiod, the critical daylength decreasing by 2–3 min for each degree of latitude north of about 30°N, at which latitude *C. carnea* flies throughout the year.

Among the Hemerobiidae, most species were less common than in previous years; in general, greatest numbers were, as usual, trapped in the south. The conspicuous exception was again *Hemerobius stigma*, which is commonest at Elgin and elsewhere more abundant than usual, numbers trapped approaching those of *Wesmaelius subnebulosus* (*Kimminsia subnebulosa* of earlier reports), which was again the commonest Hemerobiid in all traps south of Elgin. (J. Bowden)

See TABLE 4(a) and (b) on following pages

ROTHAMSTED REPORT FOR 1978, PART 2

TABLE 4(a)

The Rothamsted Insect Survey—Suction Traps: four-weekly totals of *Chrysopa carnea* in 1976-77-78

Week No.	Elgin	Dundee	Ayr	Copenhagen	Newcastle	High Mowthorpe	Preston	Shardlow	Broom's Barn	Hereford	Rothamsted Tower	Writtle	Rainham I	Rainham II	Long Ashton	Silwood Park	Wye	Starcross	Rosewarne	North Farm
1976																				
1-16								1	4	5	18	5	2	—		7				—
17-20								1					1	—		7				—
21-24		1		7			3	1		3	10	3	3	—		19			1	—
25-28			18	12		28	2	183	28	244	344	526	—	—	25	997	117	537	46	—
29-32	3	6	16	1380	16	103	89	82	136	131	1060	542	—	—	52	1992	392	6	4	—
33-36	6	3	7	819	13	7	110	56	26	132	298	178	—	—	113	1044	36	39	80	—
37-40	6	12	49	66	12	22	69	34	47	99	138	30	—	—	314	560	333	97	58	—
41-44	22	21	6	16	24	5	95	10	114	56	29	21	—	—	55	634	548	29	26	—
45-52				1	1								—	—	5	13	5	4		—
1977																				
1-16													—	2	1	2				
17-20			1	6			1						—	—						
21-24			1	5		1	2			1	1		—	3		13	2	3		
25-28	1			18			1	3		9	2		—	2	1	2	4	1	1	10
29-32				72	1		1			6	6	6	—	32	1	26	1	47	1	2
33-36	11	9		226	21	3	2	16	59	38	82	263	—	184	4	288	72	9	2	49
37-40	73	16	1	13	7	13	23	111	69	43	221	120	—	83	26	671	95	34	9	70
41-44	154	11	2	3	1	2		10	16	14	16	46	—	30	2	346	184	41	8	321
45-52											1		—					6		
1978																				
1-16		1		—				3		1	6		—	2		2				
17-20		1		—	2			1		4	3		—	5	1	16				
21-24		1		—			1	4	1	2	3	6	—	11	2	58		1	1	35
25-28				—	2			2		1	4	5	—	1		4		2		13
29-32	1	1		—				2		1	2	3	—	2		8		4		4
33-36	4	4	2	—	1	3	3	13	16	6	92	152	—	45	8	196	115	5	1	50
37-40	6	7		—	4		4	14	7	1	27	10	—	76	10	114	57	9	6	136
41-44	2	6		—	10		13	35	25	67	27	10	—	55	16	782	372	52	4	395
45-52				—					1	1		2	—	3	1	9		1		30



ROTHAMSTED INSECT SURVEY

TABLE (4b)

The Rothamsted Insect Survey—Suction Traps: annual total catches of Neuroptera in 1976–77–78

	Year	Elgin	Dundee	Auchincruive	Copenhagen	Newcastle	High Mowthorpe	Preston	Shardlow	Broom's Barn	Hereford	Rothamsted Tower	Writtle	Rainham I	Rainham II	Long Ashton	Silwood Park	Wye	Starcross	Rosewarne	North Farm	
<b>Hemerobiidae</b>																						
<i>H. humulinus</i>	1976					1						3					6	1			—	
	77	1				1						—					2				—	
	78		1		1	1	1				1	—	3	—	1	1	9		2		6	
<i>H. lutescens</i>	1976		1		1							1	3			1	1			2		—
	77															1	3					
	78		1					1	1			2	3		1	4	10	2	1		5	
<i>H. micans</i>	1976						5										2	1		1	—	
	77											2					1	2	1		—	
	78									1		2	1		1		1	2	1		—	
<i>H. nitidulus</i>	1976	1			1							1					3				—	
	77	1															1				—	
	78		2														1				—	
<i>H. stigma</i>	1976	29	4	2	6	5	3	2	5	3		9	5				28	6	6	5	—	
	77	28	1	1	1	1	3	2	9	1		11	5		2		20	4	1	5	5	
	78	20	1	3		6	1	1		1	2	4	1		1	3	7	3		1	2	
<i>W. betulinus</i>	1976		1		1											2	1			10	—	
	77								2			1					1	1		1	—	
	78			1		1		2			2	1				1	5	1	2		6	
<i>W. subnebulosus</i>	1976		3		5	2	1	2	9		3	3	13			2	16	1	10	2	—	
	77			1	1			2	3		2	2			4		2				—	
	78							9	20		13	11	5		9	7	27	6	7	1	5	
<i>M. paganus</i>	1976										2										—	
	77																				—	
	78																				—	
<i>M. variegatus</i>	1976	1	1			1	1						2								—	
	77												1								—	
	78																				—	
<b>Chrysopidae</b>																						
<i>C. albolineata</i>	1976	1				1				2	1						6				—	
	77	2					1					1					1				4	
	78	2							6			1	2			3	5			1	—	
<i>C. ciliata</i>	1976																				—	
	77																				—	
	78																				—	
<i>C. flava</i>	1976																15			1	—	
	77	1																			—	
	78	2						1	1		2	4	2			1	6	1	7		—	
<i>C. flavifrons</i>	1976											1						1	1		—	
	77											1									—	
	78											1									—	
<i>C. 7-punctata</i>	1976				1												1	1			—	
	77																1				—	
	78																				—	
<i>C. ventralis</i>	1976									1			1				3			1	—	
	77																				—	
	78	1							1												—	