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Rothamsted Experimental Station Report for 1980 Part 2



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Rothamsted Insect Survey Twelfth Annual Summary

L. R. Taylor and R. A. French

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Rothamsted Insect Survey

Twelfth Annual Summary

L. R. TAYLOR and R. A. FRENCH

Suction traps 1980

Daily samples were collected from 7 April to 4 November 1980 and the *Aphid Bulletins* were issued weekly from 14 April (*Bulletin* No. 1) to 2 November (*Bulletin* No. 29). The 33 aphid taxa listed in Table 1 (a–h) are those in the *Aphid Bulletin*.

In 1980 a new trap at Kirton, Nr. Boston, Lincs. started operating on 2 May 1980. Records for this appear in Table 1 (b–h).

The trap at Rainham was only operating up to the end of June, and therefore only appears on Table 1 (a–d). In addition, traps were operating at Stirling and Pathhead in Scotland. Suction traps sampling at 5 ft (1.5 m) were operating at East Craigs, Ingraston, Broom's Barn, Hereford and Rothamsted Tower; records for these do not appear in *Bulletins* nor in Table 1.

Catches from Aberystwyth, Broom's Barn and Holland were identified by Mr J. A'Brook and Mr H. Evans of the Welsh Plant Breeding Station; G. D. Heathcote of Broom's Barn Experimental Station and Dr A. van Harten of Wageningen, respectively. The catches from East Craigs, Pathhead, Stirling and Ingraston were identified by Mrs L. A. D. Turl and Mr R. Burns of the Department of Agriculture and Fisheries for Scotland, East Craigs. Dr H. L. G. Stroyan of the Ministry of Agriculture, Fisheries and Food, Plant Pathology Laboratory confirmed difficult identifications.

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

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

Sample volumes were halved at various sites (*see details below) between 10 June and 17 October. In addition, where numbers were high, catches were sub-sampled in the laboratory to reduce the pressure of work. The weekly *Bulletins* and Table 1 (a–h) are corrected to full volume samples.

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

Light traps

Table 2 (a–f) gives the annual catches during 1978 and 1979 of the same pest, or migratory Lepidoptera as in previous years.

Eighty-four sites completed the 364-day sample for 1979.

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.

* Sample volumes were halved at Shardlow, Writtle, Long Ashton and Wye from 10 June–17 October, Elgin 10 June–5 October, Preston 1 August–17 October, Kirton 31 July–17 October, Hereford 10 June–20 October, Rainham 10–30 June, Silwood 18 June–17 October.

ROTHAMSTED REPORT FOR 1980, PART 2

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

Sites	Elgin	Dundee	Edinburgh	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Kirton	Shardlow	Aberystwyth	Broom's Barn
Species												
<i>Acyrtosiphon pisum</i>												
<i>Amphorophora rubi</i>												
<i>Aphis fabae</i> grp.												
<i>Aphis</i> spp.												
<i>Aulacorthum solani</i>												
<i>Brachycaudus helichrysi</i>												
<i>Brevicoryne brassicae</i>												
<i>Cavariella aegopodii</i>												
<i>Cinara</i> spp.												
<i>Drepanosiphum platanoidis</i>												
<i>Dysaphis plantaginea</i>												
<i>Elatobium abietinum</i>												
<i>Eriosoma ulmi</i>												
<i>Hyaloperus pruni</i>												
<i>Hyperomyzus lactucae</i>												
<i>Macrosiphum euphorbiae</i>												
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>												
<i>Metopolophium</i> spp.												
<i>Myzus ascalonicus</i>								1		1		
<i>Myzus certus</i>												
<i>Myzus ornatus</i>												
<i>Myzus persicae</i> grp.								1				
<i>Nasonovia ribisnigri</i>												
<i>Pemphigus</i> spp.												
<i>Pentatrachopus fragaefolii</i>												
<i>Phorodon humuli</i>												
<i>Phyllaphis fagi</i>												
<i>Rhopalosiphum insertum</i>												
<i>Rhopalosiphum maidis</i>				1								
<i>Rhopalosiphum padi</i>												
<i>Sitobion avenae</i>												
<i>Sitobion fragariae</i>												
First aphid caught				April 15				April 14		April 15	April 11	

Hereford 8–14 January, 1 *Myzus ascalonicus*
 Rainham 25 February–2 March, 2 *Metopolophium* spp.
 Long Ashton 25 February–2 March, 1 *Metopolophium* spp.
 Silwood 25 February–2 March, 1 *Myzus ascalonicus*

ROTHAMSTED INSECT SURVEY

1(a)

of aphids of economic, or other, interest reported in the *Weekly Bulletin* 1980
26 March to 22 April 1980

Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	Littlehampton	Starcross	Rosewarne	Sites	Species
													<i>Acyrtosiphon pisum</i>
													<i>Amphorophora rubi</i>
													<i>Aphis fabae</i> grp.
													<i>Aphis</i> spp.
													<i>Aulacorthum solani</i>
								1					<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>
				1	1								<i>Macrosiphum euphorbiae</i>
													<i>Megoura viciae</i>
			2										<i>Metopolophium dirhodum</i>
		1	3										<i>Metopolophium</i> spp.
2	2	1	2	4	2			3	4				<i>Myzus ascalonicus</i>
													<i>Myzus certus</i>
		1	1	2	1			1		1	2		<i>Myzus ornatus</i>
									1	1			<i>Myzus persicae</i> grp.
		1											<i>Nasonovia ribisnigri</i>
													<i>Pemphigus</i> spp.
													<i>Pentatrachopus fragaefolii</i>
													<i>Phorodon humuli</i>
													<i>Phyllaphis fagi</i>
													<i>Rhopalosiphum insertum</i>
													<i>Rhopalosiphum maidis</i>
													<i>Rhopalosiphum padi</i>
			1										<i>Sitobion avenae</i>
											1		<i>Sitobion fragariae</i>
Jan 8-14	April 12+13	April 15	Feb 25-2 March	Feb 25-2 March	Feb 25-2 March			April 10	April 5	April 15	April 13		First aphid caught

ROTHAMSTED REPORT FOR 1980, PART 2

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

Sites	Elgin	Dundee	Edinburgh	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Kirton	Shardlow	Aberystwyth	Broom's Barn
Species												
<i>Acyrtosiphon pisum</i>						2				3		5
<i>Amphorophora rubi</i>										1		
<i>Aphis fabae</i> grp.												
<i>Aphis</i> spp.												
<i>Aulacorthum solani</i>			7			4			1	3	2	
<i>Brachycaudus helichrysi</i>	1		9	4	1	5		1	1	5	5	
<i>Brevicoryne brassicae</i>			1									
<i>Cavariella aegopodii</i>				1		1						
<i>Cinara</i> spp.											1	
<i>Drepanosiphum platanoidis</i>	342	979	6939	203	6	430	172	1407	33	212	142	945
<i>Dysaphis plantaginea</i>												
<i>Elatobium abietinum</i>	172	14	74	145	6	142	1	3		12	801	7
<i>Eriosoma ulmi</i>												
<i>Hylaopterus pruni</i>		1	1								2	
<i>Hyperomyzus lactucae</i>		1									1	
<i>Macrosiphum euphorbiae</i>	2		2	1	1	7			5	3	2	2
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>		1	5	1		1					3	2
<i>Metopolophium</i> spp.		1	1	9	3	82	1		1	3	82	4
<i>Myzus ascalonicus</i>	2		16	14	7	36	9	6	12	46	7	29
<i>Myzus certus</i>			3								8	1
<i>Myzus ornatus</i>						13		1			1	
<i>Myzus persicae</i> grp.			4						1			1
<i>Nasonovia ribisnigri</i>			1					1	1		1	
<i>Pemphigus</i> spp.												
<i>Pentatrachopus fragaefolii</i>												
<i>Phorodon humuli</i>												
<i>Phyllaphis fagi</i>	3		86			5		2				1
<i>Rhopalosiphum insertum</i>	2			54		39	2	4		2		
<i>Rhopalosiphum maidis</i>						1						
<i>Rhopalosiphum padi</i>			19	1		2					10	4
<i>Sitobion avenae</i>		2	1			1					1	
<i>Sitobion fragariae</i>				2								
First aphid caught	April 29	May 8	May 10		May 11	April 23	May 15		May 6			May 6

ROTHAMSTED INSECT SURVEY

1(b)
of aphids of economic, or other, interest reported in the Weekly Bulletin 1980
23 April to 20 May 1980

Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	Littlehampton	Starcross	Rosewarne	Sites	Species
3	2	2	5	7	7	4		1	2		1		<i>Acyrtosiphon pisum</i>
				1	1				2		1		<i>Amphorophora rubi</i>
		2	3	10	4					3			<i>Aphis fabae</i> grp.
13	2	1		14	3			2	1	8	15		<i>Aphis</i> spp.
	1	5	39	99	58			2	50	8	6		<i>Aulacorthum solani</i>
			1		1					5			<i>Brachycaudus helichrysi</i>
		1	9	4			3		1	1	1		<i>Brevicoryne brassicae</i>
		1	1										<i>Cavariella aegopodii</i>
56	28	124	12	54	58			1	8		3		<i>Cinara</i> spp.
18	1	7		58	85	2	103	21	9	40	60		<i>Drepanosiphum platanoidis</i>
													<i>Dysaphis plantaginea</i>
1		1	1	8	2		1		3	2			<i>Elatobium abietinum</i>
12	3	1	40	53	15	1		13	24	10	2		<i>Eriosoma ulmi</i>
													<i>Hyalopterus pruni</i>
1		1	16	43	14	4			11	10	1		<i>Hyperomyzus lactucae</i>
24	4		55	365	27	2	1	5	213	43	68		<i>Macrosiphum euphorbiae</i>
33	38	17	54	82	87	74	8	19	149	28	22		<i>Megoura viciae</i>
		1	3	3	2			1			1		<i>Metopolophium dirhodum</i>
	1	1	3	25	6				3	11			<i>Metopolophium</i> spp.
1	3	4	14	7	25			3	4	2	2		<i>Myzus ascalonicus</i>
			3	2	4				4	2	3		<i>Myzus certus</i>
										1			<i>Myzus ornatus</i>
			1		1			1					<i>Myzus persicae</i> grp.
													<i>Nasonovia ribisnigri</i>
										1			<i>Pemphigus</i> spp.
													<i>Pentatrachopus fragaefolii</i>
			1		1								<i>Phorodon humuli</i>
1	4	5	3	11	16	3	3	1	11	6	1		<i>Phyllaphis fagi</i>
				2						1			<i>Rhopalosiphum insertum</i>
				1	1	62	4	1	3	5			<i>Rhopalosiphum maidis</i>
1	1	5	17	28	32	2	1	38	29	9	1		<i>Rhopalosiphum padi</i>
		1	5	8	3		1		7	7	1		<i>Sitobion avenae</i>
													<i>Sitobion fragariae</i>
						May 11	May 7						First aphid caught

ROTHAMSTED REPORT FOR 1980, PART 2

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

Species	Elgin	Dundee	Edinburgh	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Kirton	Shardlow	Aberystwyth	Broom's Barn
<i>Acyrtosiphon pisum</i>		4			6	6			13	13		3
<i>Amphorophora rubi</i>		6			2	4		1		2	19	28
<i>Aphis fabae</i> grp.		8	6		1							1
<i>Aphis</i> spp.		8	2	11	8	4	1	3	4	9	5	5
<i>Aulacorthum solani</i>			6			25			59	5	11	1
<i>Brachycaudus helichrysi</i>	46	82	63	49	111	690	280	318	555	669	689	1801
<i>Brevicoryne brassicae</i>		7	1							2	4	5
<i>Cavariella aegopodii</i>		4	6	2	3	4	49	3	36	33	24	10
<i>Cinara</i> spp.		27	32	7		1		1	4	2	4	5
<i>Drepanosiphum platanoidis</i>	641	1224	1949	199	2016	177	3559	527	331	865	300	605
<i>Dysaphis plantaginea</i>											3	13
<i>Elatobium abietinum</i>	1916	683	873	2608	1379	236	148	62	12	10	1585	10
<i>Eriosoma ulmi</i>	10	30	2	9		16	2	12	6	17	3	10
<i>Hyalopterus pruni</i>		112	2	2	1	11	5	9	17	6	4	8
<i>Hyperomyzus lactucae</i>		16	8			20	3	18	8	9	8	
<i>Macrosiphum euphorbiae</i>	2	6	14	3	94	44		5	37	29	27	7
<i>Megoura viciae</i>						3						
<i>Metopolophium dirhodum</i>		2	7		4	25		7	3	18	21	4
<i>Metopolophium</i> spp.	8	1	12	27	99	314	11	94	84	39	102	123
<i>Myzus ascalonicus</i>	22	2	23	12	63	88	84	22	122	121	9	56
<i>Myzus certus</i>			15					4		1	6	6
<i>Myzus ornatus</i>			2		4	9				2		
<i>Myzus persicae</i> grp.		2	7			2			1	8	4	18
<i>Nasonovia ribisnigri</i>		4	9		2	6	4	1	3	2	2	
<i>Pemphigus</i> spp.			1		1					1		2
<i>Pentatrichopus fragaefolii</i>									1			
<i>Phorodon humuli</i>		7	1			9	1	5	38	50	32	110
<i>Phyllaphis fagi</i>	130	176	788	62	17	49	6	28	10	4	2	29
<i>Rhopalosiphum insertum</i>	2	323	16	33	166	167	38	4	28	3	10	
<i>Rhopalosiphum maidis</i>								1			2	
<i>Rhopalosiphum padi</i>	8	5	171	2	5	51	13	2	6	2	138	16
<i>Sitobion avenae</i>		12	6	1	5	45	2	7	41	53	36	134
<i>Sitobion fragariae</i>	2	11	10	5	8	16		15	3	11	13	8

ROTHAMSTED INSECT SURVEY

1(c)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1980
21 May to 17 June 1980

Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	Littlehampton	Starcross	Rosewarne	Sites
												Species
3	7	25	77	22	26	256	7	23	8	12		<i>Acyrtosiphon pisum</i>
8	2		6	35	5			9	24	29	9	<i>Amphorophora rubi</i>
		2	5		5	5	3	6	9	1		<i>Aphis fabae</i> grp.
4	7	21	126	40	10			13	19	11	8	<i>Aphis</i> spp.
		7	9	38	4		4	24	14	26	30	<i>Aulacorthum solani</i>
554	1543	2650	2574	949	615	71	15	1251	306	420	84	<i>Brachycaudus helichrysi</i>
9		11	15	27	16				6	42	2	<i>Brevicoryne brassicae</i>
59	59	130	375	259	105	188	38	105	114	63	9	<i>Cavariella aegopodii</i>
2	7	8	11	2	12			2	7	1		<i>Cinara</i> spp.
366	405	330	133	186	295			117	85	102	265	<i>Drepanosiphum platanoidis</i>
		2	8	2		10	4	4		1		<i>Dysaphis plantaginea</i>
699	36	19	13	323	68		106	158	18	144	25	<i>Elatobium abietinum</i>
74	8	6	34	24	9			18	2	1		<i>Eriosoma ulmi</i>
2	4	4	26	2	3	12	15	4	1	2		<i>Hyalopterus pruni</i>
7	10	16	18	46	25	3	1	18	13	29	2	<i>Hyperomyzus lactucae</i>
50	40	56	372	71	81	3	1	59	74	39	4	<i>Macrosiphum euphorbiae</i>
												<i>Megoura viciae</i>
10	7	17	342	118	7	29	9	9	47	61	5	<i>Metopolophium dirhodum</i>
590	112	100	563	926	257	145	9	244	335	187	53	<i>Metopolophium</i> spp.
50	139	113	169	56	95	30	14	81	49	57	12	<i>Myzus ascalonicus</i>
5	6	9	54	5	16			4	6	2		<i>Myzus certus</i>
	5	9	7	13					9	4		<i>Myzus ornatus</i>
9	16	105	153	39	13	1		32	37	6	6	<i>Myzus persicae</i> grp.
4	4	1	4	1	3	3		3	5	3	2	<i>Nasonovia ribisnigri</i>
		5	40		8			9		2		<i>Pemphigus</i> spp.
		8	13							5		<i>Pentatrachopus fragaefolii</i>
185	49	215	467	109	144	23	10	424	25	14	2	<i>Phorodon humuli</i>
1	5	11	11	4	40			23	1	2		<i>Phyllaphis fagi</i>
15	18	36	208	31	28	14	44	26	16	29	29	<i>Rhopalosiphum insertum</i>
							1		1	1		<i>Rhopalosiphum maidis</i>
10	5	11	84	12	8	173	16	12	59	83	41	<i>Rhopalosiphum padi</i>
152	228	913	1441	457	1268	100	25	1954	339	343	58	<i>Sitobion avenae</i>
71	18	34	137	151	79	4	1	48	63	145	25	<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1980, PART 2

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

Species	Elgin	Dundee	Edinburgh	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Kirton	Shardlow	Aberystwyth	Broom's Barn
<i>Acyrtosiphon pisum</i>	2	6	1	1	3	5	3	1	76	24	2	14
<i>Amphorophora rubi</i>		2			3	3	1	1	1		8	2
<i>Aphis fabae</i> grp.	2	4	8	3		1		2		4	1	1
<i>Aphis</i> spp.	8	17	170	20	1	42		18	4	16	2	2
<i>Aulacorthum solani</i>		1	4			3		5	1	2		4
<i>Brachycaudus helichrysi</i>	10	37	17	6	11	29	35	58	35	20		46
<i>Brevicoryne brassicae</i>		2								2	1	37
<i>Cavariella aegopodii</i>	2		3	1	1	30		28	16	4		18
<i>Cinara</i> spp.	28	22	12	13	19	2	4	12	3	4	13	3
<i>Drepanosiphum platanoidis</i>	60	65	68	47	92	53	255	288	69	196	34	141
<i>Dysaphis plantaginea</i>				1							3	2
<i>Elatobium abietinum</i>	28	8	5	10	8	1		14			5	
<i>Eriosoma ulmi</i>	8	69	18	4	7	8	21	19	8	4	4	5
<i>Hyalopterus pruni</i>	2	98	19	9	2	50	26	89	53	34	4	11
<i>Hyperomyzus lactucae</i>	2	5	1	1	1	1		1	2		2	
<i>Macrosiphum euphorbiae</i>		9	11	5	2	13		15	11	8	5	1
<i>Megoura viciae</i>	2	3	3	1	7	5						
<i>Metopolophium dirhodum</i>	2	134	68	5	8	5	78	151	60	274	15	19
<i>Metopolophium</i> spp.	2		19	3	10	7	61	22	36	30	1	11
<i>Myzus ascalonicus</i>			1		1	5	3	1	2	8		1
<i>Myzus certus</i>				1								
<i>Myzus ornatus</i>		1				8		1		2	3	
<i>Myzus persicae</i> grp.		2	1	1		1		2	1	20		100
<i>Nasonovia ribisnigri</i>			1	1		2		1	1	2	3	2
<i>Pemphigus</i> spp.		4	10	3		2	1	18	42	22	1	12
<i>Pentatrichopus fragaefolii</i>		1		1								
<i>Phorodon humuli</i>		8	2			9	11		10	6		17
<i>Phyllaphis fagi</i>	40	89	352	23	19	24	16	5	1	2	2	7
<i>Rhopalosiphum insertum</i>	2	24	2	98	11	23	1	30	1	6		2
<i>Rhopalosiphum maidis</i>	2	5		2	1	5	1	4	1		7	
<i>Rhopalosiphum padi</i>	8	30	21	2	10	4	24	6	67	8	39	31
<i>Sitobion avenae</i>	6	6	2	3	2	9	28	60	390	262	75	684
<i>Sitobion fragariae</i>		2	1		3	6	2	3	3	8	2	13

ROTHAMSTED INSECT SURVEY

1(d)

*of aphids of economic, or other, interest reported in the Weekly Bulletin 1980
18 June to 15 July 1980*

Hereford	Rothamsted Tower	Writtle	Rainham*	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	Littlehampton	Starcross	Rosewarne	Sites	Species
12	14	12	10	6	12	21	14	24	23	2	1		<i>Acyrtosiphon pisum</i>
6		2	2	6	4			8	5	5	3		<i>Amphorophora rubi</i>
	6	10	26	4	24	9	3	6	10	1			<i>Aphis fabae</i> grp.
				10			1	64	17		3		<i>Aphis</i> spp.
10	15	36	88	2	14	31	3	8	4	8	4		<i>Aulacorthum solani</i>
2		10	14	8	18		1	28	24	6	2		<i>Brachycaudus helichrysi</i>
4	11	12	30	14	10	246	13	10	5	9			<i>Brevicoryne brassicae</i>
2	1	2	6	2	18			22	28	6			<i>Cavariella aegopodii</i>
44	54	32	10	66	52			2	9	2			<i>Cinara</i> spp.
	1		2	4				26	22	13	65		<i>Drepanosiphum platanoidis</i>
16													<i>Dysaphis plantaginea</i>
8			2		2			6			1		<i>Elatobium abietinum</i>
2	11	12	30	4	22	12	28	32	22	7	1		<i>Eriosoma ulmi</i>
	3		4	2		6	3	6	6	1			<i>Hyalopterus pruni</i>
8	3	4	30	8	16	13	1	28	59	10	3		<i>Hyperomyzus lactucae</i>
			2					2					<i>Macrosiphum euphorbiae</i>
28	5	4	34	10	8	429	145	20	8	6			<i>Megoura viciae</i>
4	11	6	10	2	6	38	4	12	8	2			<i>Metopolophium dirhodum</i>
6				2			1		2				<i>Metopolophium</i> spp.
	1			2	4				2				<i>Myzus ascalonicus</i>
2		2	2	6				2	4				<i>Myzus certus</i>
2	18	58	44	8	30	13	2	78	39	1			<i>Myzus ornatus</i>
	4		2	2			2	6	2	4			<i>Myzus persicae</i> grp.
6	8	12	30	2	14			6	9	1			<i>Nasonovia ribisnigri</i>
													<i>Pemphigus</i> spp.
14	8	12	20	6	14	52	9	188	16	4			<i>Pentatrachopus fragaefolii</i>
	9		2	10	12			48		1			<i>Phorodon humuli</i>
2		4	10	10	14	20	7	4	5	11	7		<i>Phyllaphis fagi</i>
2		2		4	2	2	1		3	4	4		<i>Rhopalosiphum insertum</i>
2	4	14	12	2	14	1314	105	36	49	62	4		<i>Rhopalosiphum maidis</i>
206	199	378	242	304	612	440	343	1328	338	97	25		<i>Rhopalosiphum padi</i>
											8		<i>Sitobion avenae</i>
20	12	10	30	4	18	18	4	24	7	13	4		<i>Sitobion fragariae</i>

*2 weeks only

ROTHAMSTED REPORT FOR 1980, PART 2

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

Species	Elgin	Dundee	Edinburgh	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Kirton	Shardlow	Aberystwyth	Broom's Barn
<i>Acyrtosiphon pisum</i>		41	7	4	5	2	62	11	518	100	1	28
<i>Amphorophora rubi</i>			1						1	2		
<i>Aphis fabae</i> grp.	26	228	89	25	275	6	5	14	44	14	4	14
<i>Aphis</i> spp.	4	117	336	8	35	29	7	28	161	16		20
<i>Aulacorthum solani</i>			2					1	4	4		
<i>Brachycaudus helichrysi</i>		56	49	3	17		32	20	27	34	3	15
<i>Brevicoryne brassicae</i>		26							17	52	3	55
<i>Cavariella aegopodii</i>	2	5	9	1	7	2	8	24	142	24		22
<i>Cinara</i> spp.	20	26	183	38	72	3	1	30	12		23	15
<i>Drepanosiphum platanoidis</i>	28	25	21	19	21	102	98	191	32	204	173	71
<i>Dysaphis plantaginea</i>				2					1	4	1	6
<i>Elatobium abietinum</i>				2								
<i>Eriosoma ulmi</i>			1	1				1				
<i>Hyalopterus pruni</i>	14	155	48	7	63	59	117	204	262	364	1	121
<i>Hyperomyzus lactucae</i>		20	1			1	1		10	6		3
<i>Macrosiphum euphorbiae</i>	14	108	50	3	4	5	8	22	32	50	4	4
<i>Megoura viciae</i>			3	1	2			1			2	2
<i>Metopolophium dirhodum</i>	8	1029	251	1	61	3	463	45	226	692	13	38
<i>Metopolophium</i> spp.		3	20		8		114	12	20	12	1	4
<i>Myzus ascalonicus</i>			1									
<i>Myzus certus</i>		1					2	2	4	6		
<i>Myzus ornatus</i>			6			1					2	
<i>Myzus persicae</i> grp.		12	2	2	2	1	16	28	99	184		54
<i>Nasonovia ribisnigri</i>	2					2		1		4	5	2
<i>Pemphigus</i> spp.		6	8	7		4	2	7	29	6	13	6
<i>Pentatrichopus fragaefolii</i>												
<i>Phorodon humuli</i>		6	1	1		5	1	2	4	18		7
<i>Phyllaphis fagi</i>		3	31		1							2
<i>Rhopalosiphum insertum</i>	16	243	160	772	90	269	66	232	87	34		99
<i>Rhopalosiphum maidis</i>		6		3	4	3	1	2	2		1	9
<i>Rhopalosiphum padi</i>	76	663	208	59	85	106	540	88	1044	118	73	823
<i>Sitobion avenae</i>	98	450	430	450	695	407	3494	1409	6362	3264	286	1855
<i>Sitobion fragariae</i>	4	21	14	4	32	5	95	28	50	104	3	8

ROTHAMSTED INSECT SURVEY

1(e)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1980
16 July to 12 August 1980

Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	Littlehampton	Starcross	Rosewarne	Sites
												Species
2	3	6			2			6	2	2		<i>Acyrtosiphon pisum</i>
8	9	10			6			8	10		1	<i>Amphorophora rubi</i>
6	6	14		8	18			30	11	1	3	<i>Aphis fabae</i> grp.
		2			2			2		5	9	<i>Aphis</i> spp.
10	5	8		2				2	2	5	1	<i>Aulacorthum solani</i>
16	10	32		4	20			4	14	8	1	<i>Brachycaudus helichrysi</i>
	7	4			6			10	7	3	2	<i>Brevicoryne brassicae</i>
2	1	4		2	4			14	3			<i>Cavariella aegopodii</i>
22	28	52		48	42			132	123	10	78	<i>Cinara</i> spp.
8												<i>Drepanosiphum platanoidis</i>
2												<i>Dysaphis plantaginea</i>
28	82	122	Trap not operating	28	134	Records not available	Records not available	180	39	18	2	<i>Elatobium abietinum</i>
	1											<i>Eriosoma ulmi</i>
8	1			2	4			4	1		1	<i>Hyalopterus pruni</i>
					2							<i>Hyperomyzus lactucae</i>
8	5	8		8	4			12	7	3	4	<i>Macrosiphum euphorbiae</i>
4	11								1			<i>Megoura viciae</i>
												<i>Metopolophium dirhodum</i>
4					2			2	1			<i>Metopolophium</i> spp.
	1				2				2			<i>Myzus ascalonicus</i>
8	6	12		2	8			12	12	1	2	<i>Myzus certus</i>
2				2						1	1	<i>Myzus ornatus</i>
4	2	6		8	2			10		3	2	<i>Myzus persicae</i> grp.
												<i>Nasonovia ribisnigri</i>
18	2											<i>Pemphigus</i> spp.
	1											<i>Pentatrachopus fragaefolii</i>
40	64	78		68	54			54	39	59	51	<i>Phorodon humuli</i>
								4	2	5		<i>Phyllaphis fagi</i>
30	79	186		16	162			378	412	488	58	<i>Rhopalosiphum insertum</i>
574	282	650		226	374			1034	262	140	23	<i>Rhopalosiphum maidis</i>
32	30	16		6	18			8		3	3	<i>Rhopalosiphum padi</i>
												<i>Sitobion avenae</i>
												<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1980, PART 2

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

Sites	Elgin	Dundee	Edinburgh	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Kirton	Shardlow	Aberystwyth	Broom's Barn
<i>Acyrtosiphon pisum</i>	2	3		2	1		2	4	6	2	1	10
<i>Amphorophora rubi</i>			1									
<i>Aphis fabae</i> grp.	24	119	84	1	131	4	7	60	14	4	14	7
<i>Aphis</i> spp.	10	16	24	5	13	1	2	10	18	8	4	4
<i>Aulacorthum solani</i>						1						
<i>Brachycaudus helichrysi</i>	8	37	31	4	5	9	5	6	40	24	14	17
<i>Brevicoryne brassicae</i>		1							2	10	2	7
<i>Cavariella aegopodii</i>		1			1			2	6			
<i>Cinara</i> spp.		1	5									
<i>Drepanosiphum platanoidis</i>	18	60	6	52	22	232	16	514	26	158	993	194
<i>Dysaphis plantaginea</i>		1										1
<i>Elatobium abietinum</i>												
<i>Eriosoma ulmi</i>		1										
<i>Hyalopterus pruni</i>		17	7	5	9	6	20	46	58	56	12	19
<i>Hyperomyzus lactucae</i>			1			1						1
<i>Macrosiphum euphorbiae</i>	12	28	2	2	1			6				1
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>	2	25	3	2	1	3	4		4		1	6
<i>Metopolophium</i> spp.	4					1		2				
<i>Myzus ascalonicus</i>											1	
<i>Myzus certus</i>				1								1
<i>Myzus ornatus</i>											2	
<i>Myzus persicae</i> grp.		1		3	1			2	6	2	2	5
<i>Nasonovia ribisnigri</i>												
<i>Pemphigus</i> spp.	10	31	15	11	20	9	1	30	15	28	15	8
<i>Pentatrichopus fragaefolii</i>												
<i>Phorodon humuli</i>			1									1
<i>Phyllaphis fagi</i>												
<i>Rhopalosiphum insertum</i>	110	212	164	301	46	310	73	450	115	42	8	53
<i>Rhopalosiphum maidis</i>		1			1	1	1					1
<i>Rhopalosiphum padi</i>	410	1012	158	176	212	246	215	1090	621	714	107	496
<i>Sitobion avenae</i>	22	70	33	15	35	14	56	22	119	110	33	95
<i>Sitobion fragariae</i>	2	6	2		7		4	4	6	8	1	1

ROTHAMSTED INSECT SURVEY

1(f)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1980
13 August to 9 September 1980

Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	Littlehampton	Starcross	Rosewarne	Sites	Species
	3	38		4	4			18	6	7	5		<i>Acyrtosiphon pisum</i>
8	4	6		20	4			10	9	2	3		<i>Amphorophora rubi</i>
2	7	12		18	16			20	8	3	3		<i>Aphis fabae</i> grp.
		2								3	2		<i>Aphis</i> spp.
12	15	14		10	10			22	13	14	5		<i>Aulacorthum solani</i>
2	2	10		2	4					5			<i>Brachycaudus helichrysi</i>
		2							1	1	1		<i>Brevicoryne brassicae</i>
24	49	46		574	60			94	36	51	77		<i>Cavariella aegopodii</i>
		2									1		<i>Cinara</i> spp.
													<i>Drepanosiphum platanoidis</i>
4	23	16	Trap not operating	18	24	Records not available	Records not available	30	19	24	4		<i>Dysaphis plantaginea</i>
				2				2		1			<i>Elatobium abietinum</i>
20		4		4					4	2			<i>Eriosoma ulmi</i>
	2	4			4			2			1		<i>Hyalopterus pruni</i>
	1	6			2			2					<i>Hyperomyzus lactucae</i>
2		2								1			<i>Macrosiphum euphorbiae</i>
										2			<i>Megoura viciae</i>
									1				<i>Metopolophium dirhodum</i>
													<i>Metopolophium</i> spp.
									1		1		<i>Myzus ascalonicus</i>
	1												<i>Myzus certus</i>
2	4	2			2			2	7	1	3		<i>Myzus ornatus</i>
				2				2					<i>Myzus persicae</i> grp.
2	7	8		8	26			6	8	25	2		<i>Nasonovia ribisnigri</i>
											1		<i>Pemphigus</i> spp.
16		2						4					<i>Pentatrachopus fragaefolii</i>
													<i>Phorodon humuli</i>
													<i>Phyllaphis fagi</i>
62	70	120		164	68			84	73	152	51		<i>Rhopalosiphum insertum</i>
		2						2					<i>Rhopalosiphum maidis</i>
234	390	704		588	510			842	484	868	232		<i>Rhopalosiphum padi</i>
58	106	178		84	120			194	73	34	30		<i>Sitobion avenae</i>
6	4	2		6	10			6	2	3	5		<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1980, PART 2

TABLE

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

Sites	Elgin	Dundee	Edinburgh	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Kirton	Shardlow	Aberystwyth	Broom's Barn
<i>Acyrtosiphon pisum</i>									2	8	1	7
<i>Amphorophora rubi</i>												
<i>Aphis fabae</i> grp.	6		8		3	4	5	42	798	24	26	81
<i>Aphis</i> spp.		5			7	2	3	28	82	14		13
<i>Aulacorthum solani</i>						1					1	
<i>Brachycaudus helichrysi</i>	24	21	25	15	26	8	38	42	96	54	5	34
<i>Brevicoryne brassicae</i>		1					2		14	4	5	5
<i>Cavariella aegopodii</i>	2	5			1				8			42
<i>Cinara</i> spp.		1										1
<i>Drepanosiphum platanoidis</i>	6	23	10	13	13	13	20	126	30	120	80	54
<i>Dysaphis plantaginea</i>						1				10		21
<i>Elatobium abietinum</i>												
<i>Eriosoma ulmi</i>		15	1			1	1		12			1
<i>Hyalopterus pruni</i>		2			3		3		42	14	1	8
<i>Hyperomyzus lactucae</i>					2	2		8	4			6
<i>Macrosiphum euphorbiae</i>		2	1		3		1	4			2	3
<i>Megoura viciae</i>					1							1
<i>Metopolophium dirhodum</i>	6	10	2	3		1	1	10	2		4	2
<i>Metopolophium</i> spp.				4				2		4	1	1
<i>Myzus ascalonicus</i>												
<i>Myzus certus</i>		1							2			
<i>Myzus ornatus</i>											3	
<i>Myzus persicae</i> grp.	2	2	2	1	5		2		14	4	13	19
<i>Nasonovia ribisnigri</i>	4				1	1			6	2	2	10
<i>Pemphigus</i> spp.	68	65	38	86	128	30	17	116	278	128	34	80
<i>Pentatrichopus fragaefolii</i>												
<i>Phorodon humuli</i>								8	2			2
<i>Phyllaphis fagi</i>												
<i>Rhopalosiphum insertum</i>	2974	2493	530	1966	1711	1446	830	8574	766	1568	262	703
<i>Rhopalosiphum maidis</i>					1		1					8
<i>Rhopalosiphum padi</i>	2028	3697	3496	2700	3239	2613	1616	8338	3645	19126	2088	2942
<i>Sitobion avenae</i>	2	4	2		8	5	1	12		6	10	8
<i>Sitobion fragariae</i>	8	1			2	1		4	6	4		

ROTHAMSTED INSECT SURVEY

1(g)

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

Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	Littlehampton	Starcross	Rosewarne	Sites
												Species
6	1	8		4	10			8	4	2		<i>Acyrtosiphon pisum</i>
32	10	74		24	24			104	27	8	7	<i>Amphorophora rubi</i>
10	12	26		20	8			56	6	6	3	<i>Aphis fabae</i> grp.
												<i>Aphis</i> spp.
18	44	24		18	14			52	45	14	7	<i>Aulacorthum solani</i>
2	2	2			4				1	7	2	<i>Brachycaudus helichrysi</i>
	3	6		4	4			6	6	1	1	<i>Brevicoryne brassicae</i>
								4			1	<i>Cavariella aegopodii</i>
4	52	50		34	66			54	23	12	34	<i>Cinara</i> spp.
	1	6			10				2	2		<i>Drepanosiphum platanoidis</i>
	1	2			2			6				<i>Dysaphis plantaginea</i>
	1	6		8	12			78	6	9		<i>Elatobium abietinum</i>
		8		6				8	2	2		<i>Eriosoma ulmi</i>
2		2		4	4			2	4	1		<i>Hyalopterus pruni</i>
												<i>Hyperomyzus lactucae</i>
2	1	2		6				10	2		2	<i>Macrosiphum euphorbiae</i>
18	19	24			2			4			1	<i>Megoura viciae</i>
			Trap not operating									<i>Metopolophium dirhodum</i>
				2				2			2	<i>Metopolophium</i> spp.
10	10	14		14	4			28	18	7	4	<i>Myzus ascalonicus</i>
4	4	2		4	2				3	1	2	<i>Myzus certus</i>
96	69	118		150	58			104	34	103	9	<i>Myzus ornatus</i>
												<i>Myzus persicae</i> grp.
308	2	2						108			3	<i>Nasonovia ribisnigri</i>
											9	<i>Pemphigus</i> spp.
582	520	258		1196	596			606	382	639	1489	<i>Pentatrachopus fragaefolii</i>
				4				2				<i>Phorodon humuli</i>
3704	1842	2434		3004	1646			3360	563	648	299	<i>Phyllaphis fagi</i>
8	11	16		16				16	6	5	2	<i>Rhopalosiphum insertum</i>
4		2						4	1	1		<i>Rhopalosiphum maidis</i>
												<i>Rhopalosiphum padi</i>
												<i>Sitobion avenae</i>
												<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1980, PART 2

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

Sites												
Species	Elgin	Dundee	Edinburgh	Auchincruive	Newcastle	Belfast	High Mowthorpe	Preston	Kirton	Shardlow	Aberystwyth	Broom's Barn
<i>Acyrtosiphon pisum</i>							2		309	2	2	29
<i>Amphorophora rubi</i>				2			1		127	5	1	
<i>Aphis fabae</i> grp.		1		1		1			2			1
<i>Aphis</i> spp.				1					2			
<i>Aulacorthum solani</i>		9	3	1	1		1	1	3	2	2	6
<i>Brachycaudus helichrysi</i>				1								
<i>Brevicoryne brassicae</i>		3		1		1		2	4	2	2	14
<i>Cavariella aegopodii</i>			3									
<i>Cinara</i> spp.												
<i>Drepanosiphum platanoidis</i>		14	7	10	15	10	8	72	14	83	19	7
<i>Dysaphis plantaginea</i>												
<i>Elatobium abietinum</i>												
<i>Eriosoma ulmi</i>		23	3						2	5	1	1
<i>Hyalopterus pruni</i>									2			
<i>Hyperomyzus lactucae</i>					1		1	1	1	1		3
<i>Macrosiphum euphorbiae</i>		1									1	
<i>Megoura viciae</i>												
<i>Metopolophium dirhodum</i>		4	3	17	3	2		9	2	11	7	2
<i>Metopolophium</i> spp.		5		3		1		13	3	5		2
<i>Myzus ascalonicus</i>			1								2	
<i>Myzus certus</i>												
<i>Myzus ornatus</i>			1								3	
<i>Myzus persicae</i> grp.		1			1		1	4	6	3	2	12
<i>Nasonovia ribisnigri</i>									1	1	4	6
<i>Pemphigus</i> spp.		9	6	13	4	3	4	22	40	19	7	7
<i>Pentatrichopus fragaefolii</i>												
<i>Phorodon humuli</i>												
<i>Phyllaphis fagi</i>		1	1		1		1					
<i>Rhopalosiphum insertum</i>		1532	139	526	293	448	188	1687	404	343	1556	184
<i>Rhopalosiphum maidis</i>												
<i>Rhopalosiphum padi</i>		834	470	749	229	494	183	2034	576	1685	305	442
<i>Sitobion avenae</i>			1	1			1	1	2			1
<i>Sitobion fragariae</i>		5		3	5	9	1	7	2	19	10	3

ROTHAMSTED INSECT SURVEY

1(h)

of aphids of economic, or other, interest reported in the *Weekly Bulletin* 1980
8 October to 4 November 1980

Hereford	Rothamsted Tower	Writtle	Rainham	Long Ashton	Silwood Park	Zeeland	N.E. Polder	Wye, Kent	Littlehampton	Starcross	Rosewarne	Sites
												Species
	1								1			<i>Acyrtosiphon pisum</i>
5	2	18		2	1			1			2	<i>Amphorophora rubi</i>
1	4	19		7	4			5	1		3	<i>Aphis fabae</i> grp.
												<i>Aphis</i> spp.
4	3			5	2			1	3	8	1	<i>Aulacorthum solani</i>
				1								<i>Brachycaudus helichrysi</i>
	1	3			3			2	3	2	1	<i>Brevicoryne brassicae</i>
												<i>Cavariella aegopodii</i>
10	19	11		17	17			13	6	6	3	<i>Cinara</i> spp.
		1		1					2			<i>Drepanosiphum platanoidis</i>
18	3	4		1	2			4				<i>Dysaphis plantaginea</i>
		1										<i>Elatobium abietinum</i>
1		3										<i>Eriosoma ulmi</i>
2		2		1	1							<i>Hyalopterus pruni</i>
												<i>Hyperomyzus lactucae</i>
	1							1	1			<i>Macrosiphum euphorbiae</i>
	2	6		1	3			1	1			<i>Megoura viciae</i>
												<i>Metopolophium dirhodum</i>
												<i>Metopolophium</i> spp.
												<i>Myzus ascalonicus</i>
												<i>Myzus certus</i>
												<i>Myzus ornatus</i>
3	1	5		1				1	3	1	3	<i>Myzus persicae</i> grp.
1	1				2			2	1			<i>Nasonovia ribisnigri</i>
14	3	20		35	14			11	6	3		<i>Pemphigus</i> spp.
5								5				<i>Pentatrichopus fragaefolii</i>
												<i>Phorodon humuli</i>
		1			1							<i>Phyllaphis fagi</i>
136	182	117		141	109			250	129	138	182	<i>Rhopalosiphum insertum</i>
	1							1			2	<i>Rhopalosiphum maidis</i>
430	398	391		252	344			663	86	48	16	<i>Rhopalosiphum padi</i>
					1			5	2			<i>Sitobion avenae</i>
5	3	9		3	11			9	6	2	1	<i>Sitobion fragariae</i>

ROTHAMSTED REPORT FOR 1980, PART 2

TABLE
The Rothamsted Insect Survey—Light Traps: annual records

Pest Species	Year	Inverpolly	Cromarty	Beinn Eighe	Fort Augustus	Rannoch	Dundee	Rowardennan	East Craigs	Culzean Castle	Auchincruive	Kielder	Rochester	Chester le Street	Moor House
		352	398	350	49	29	47	97	261	264	293	296	278	39	281
<i>Gortyna micacea</i>	1978	18	—	57	28	68	0	4	3	25	5	23	—	11	0
Rosy Rustic	1979	14	45	41	23	48	0	8	7	20	0	34	20	10	0
<i>Bupalus piniaria</i>	1978	0	—	1	1	0	0	0	0	0	0	0	—	0	0
Bordered White	1979	0	0	0	4	0	0	0	0	1	0	1	1	0	0
<i>Panolis flammea</i>	1978	0	—	1	2	0	0	0	0	2	0	0	—	0	0
Pine Beauty	1979	0	0	0	2	0	0	0	0	1	0	0	0	0	0
<i>Cerapteryx graminis</i>	1978	25	—	95	99	58	10	79	7	11	4	13	—	0	50
Antler Moth	1979	94	4	21	60	50	3	2	5	12	5	5	13	0	20
<i>Erannis aurantiaria</i>	1978	—	—	9	311	3107	13	738	0	0	0	85	—	2	0
Scarce Umber	1979	30	141	6	101	470	0	185	0	1	0	23	0	0	0
<i>Operophtera fagata</i>	1978	—	—	3	8	106	0	8	0	0	0	52	—	0	0
Northern Winter Moth	1979	17	1	0	1	105	0	29	0	0	0	68	38	1	0
<i>Apamea sordens</i>	1978	0	—	0	0	0	0	0	9	0	1	0	—	3	0
Rustic Shoulder-knot	1979	0	3	0	0	0	0	0	3	1	1	0	0	3	0
<i>Gortyna flavago</i>	1978	0	—	0	0	0	0	0	0	2	0	0	—	0	0
Frosted Orange	1979	0	1	0	0	0	0	0	0	2	0	0	0	0	0
<i>Mamestra brassicae</i>	1978	0	—	0	0	0	12	0	7	0	0	1	—	16	0
Cabbage Moth	1979	0	0	0	0	0	6	0	3	1	0	0	2	10	0
<i>Noctua pronuba</i>	1978	12	—	2	1	0	8	4	7	37	11	2	—	23	0
Large Yellow Underwing	1979	5	44	2	2	2	16	1	5	9	2	5	5	9	4
<i>Diataraxia oleracea</i>	1978	6	—	1	0	0	2	0	3	2	2	0	—	3	0
Bright-line Brown-eye	1979	8	1	0	0	0	0	0	3	4	0	0	2	1	0
<i>Euxoa nigricans</i>	1978	0	—	0	2	0	8	0	3	0	1	0	—	11	0
Garden Dart	1979	0	0	0	1	0	0	0	0	0	0	0	0	2	0
<i>Apamea secalis</i>	1978	2	—	11	8	0	12	6	36	5	14	10	—	22	0
Common Rustic	1979	7	22	0	14	0	3	1	30	7	4	7	2	15	0
<i>Melanchnra persicariae</i>	1978	0	—	0	0	0	0	1	0	0	0	0	—	0	0
Dot Moth	1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Operophtera brumata</i>	1978	—	—	10	11	26	5	179	1	7	0	47	—	2	0
Winter Moth	1979	10	31	18	11	27	0	202	0	7	0	103	194	5	0

ROTHAMSTED INSECT SURVEY

2(a)
of moths of economic, or other importance for 1978 and 1979

	Middleton in Teesdale	Arnside	Baldersby	Castletown, I.O.M.	Acomb	Preston	Longridge	Tarleton	Spurn Head	East Didsbury	Edale	Wilmslow	Riseholme	Bangor	Year	Pest Species
263	403	315	306	363	288	124	371	131	269	365	402	96	35	1978	<i>Gortyna micacea</i>	
2	19	71	10	1	4	5	6	21	5	0	2	1	0	1979	Rosy Rustic	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1978	<i>Bupalus piniaria</i>	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1979	Bordered White	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1978	<i>Panolis flammea</i>	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1979	Pine Beauty	
29	5	4	0	0	0	0	0	44	51	0	0	0	0	1978	<i>Cerapteryx graminis</i>	
13	0	3	3	0	0	3	1	70	1	50	0	0	0	1979	Antler Moth	
16	0	0	0	0	0	0	0	0	8	0	0	0	0	1978	<i>Erannis aurantiaria</i>	
3	11	7	0	1	5	28	0	0	1	19	2	2	0	1979	Scarce Umber	
17	0	0	0	0	0	0	0	0	5	0	0	0	0	1978	<i>Operophtera fagata</i>	
7	6	0	0	0	0	3	0	0	0	20	0	0	0	1979	Northern Winter Moth	
0	8	6	0	0	0	0	0	3	0	0	0	0	2	1978	<i>Apamea sordens</i>	
0	0	4	0	0	0	1	1	0	0	0	1	0	0	1979	Rustic Shoulder-knot	
0	1	1	0	0	0	0	0	0	0	0	0	1	0	1978	<i>Gortyna flavago</i>	
0	0	0	0	0	0	0	2	1	0	0	0	0	0	1979	Frosted Orange	
0	3	3	8	0	0	0	10	5	1	0	0	0	11	1978	<i>Mamestra brassicae</i>	
6	0	16	1	4	1	1	7	2	5	2	7	1	10	1979	Cabbage Moth	
23	11	21	9	9	0	0	12	39	6	0	0	0	9	1978	<i>Noctua pronuba</i>	
12	9	4	1	6	18	13	13	30	2	16	12	4	9	1979	Large Yellow Underwing	
1	14	12	4	0	0	0	14	57	8	0	0	0	3	1978	<i>Diataraxia oleracea</i>	
2	0	5	3	5	1	14	53	0	8	1	4	3	3	1979	Bright-line Brown-eye	
0	2	0	0	0	0	0	2	0	0	0	0	0	0	1978	<i>Euxoa nigricans</i>	
0	0	0	0	0	0	0	0	0	0	0	1	0	0	1979	Garden Dart	
25	54	77	5	0	0	0	35	24	8	0	0	0	8	1978	<i>Apamea secalis</i>	
21	27	122	1	17	14	15	15	17	2	0	10	9	5	1979	Common Rustic	
0	0	0	2	0	0	0	5	0	0	0	0	0	0	1978	<i>Melanchra persicariae</i>	
0	1	0	0	8	0	0	15	1	0	0	0	3	0	1979	Dot Moth	
8	4	13	2	0	0	0	0	0	79	0	0	0	0	1978	<i>Operophtera brumata</i>	
49	187	28	23	13	17	36	0	17	0	142	9	9	0	1979	Winter Moth	

ROTHAMSTED REPORT FOR 1980, PART 2

TABLE
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Pest Species	Year	Jodrell Bank	Gleadthorpe	Matlock	Gibraltar Point	Empingham	Caythorpe	Wells next the Sea	West Bridgford	Shardlow	Sutton Bonington I	Terrington	Preston Montford	Wellington	Wolverhampton I
		337	257	279	223	280	202	274	388	378	168	381	382	411	267
<i>Gortyna micacea</i>	1978	26	44	2	17	7	—	0	—	15	—	16	21	—	0
Rosy Rustic	1979	21	40	5	9	4	8	1	2	12	14	19	47	1	0
<i>Bupalus piniaria</i>	1978	0	0	0	0	0	—	1	—	0	—	0	0	—	0
Bordered White	1979	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Panolis flammea</i>	1978	0	0	0	0	0	—	0	—	0	—	0	0	—	0
Pine Beauty	1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cerapteryx graminis</i>	1978	44	3	2	4	0	—	0	—	0	—	0	1	—	0
Antler Moth	1979	91	4	1	2	0	1	0	0	0	1	0	1	0	0
<i>Erannis aurantiaria</i>	1978	14	2	2	0	0	—	0	—	2	—	0	12	—	0
Scarce Umber	1979	22	1	0	0	0	0	0	—	2	1	0	10	0	0
<i>Operophtera fagata</i>	1978	3	0	0	0	0	—	0	—	0	—	0	0	—	0
Northern Winter Moth	1979	4	3	0	0	0	0	0	—	0	0	0	0	0	0
<i>Apamea sordens</i>	1978	0	0	4	1	2	—	0	—	1	—	9	0	—	0
Rustic Shoulder-knot	1979	0	0	4	2	0	3	0	3	0	1	1	1	10	0
<i>Gortyna flavago</i>	1978	1	9	0	0	0	—	0	—	3	—	0	1	—	0
Frosted Orange	1979	1	11	0	1	1	7	0	0	1	3	1	1	2	0
<i>Mamestra brassicae</i>	1978	0	1	9	0	11	—	4	—	3	—	11	1	—	0
Cabbage Moth	1979	0	3	18	0	20	5	4	11	1	0	9	2	11	0
<i>Noctua pronuba</i>	1978	26	6	49	8	91	—	5	—	9	—	1	7	—	1
Large Yellow Underwing	1979	11	8	37	4	44	41	5	6	11	39	2	4	9	1
<i>Diataraxia oleracea</i>	1978	0	70	4	5	9	—	2	—	11	—	22	6	—	3
Bright-line Brown-eye	1979	0	13	10	1	7	5	3	1	22	15	6	2	64	1
<i>Euxoa nigricans</i>	1978	1	1	0	0	38	—	0	—	0	—	0	2	—	10
Garden Dart	1979	2	0	1	0	1	5	0	0	0	0	0	0	1	10
<i>Apamea secalis</i>	1978	12	26	57	13	49	—	6	—	24	—	47	123	—	2
Common Rustic	1979	3	21	28	10	90	22	0	7	8	52	27	66	25	0
<i>Melanchra persicariae</i>	1978	0	0	0	0	5	—	0	—	2	—	11	2	—	0
Dot Moth	1979	0	0	1	0	11	0	1	2	0	1	10	1	6	0
<i>Operophtera brumata</i>	1978	40	5	4	1	21	—	6	—	1	—	1	11	—	0
Winter Moth	1979	54	8	9	5	47	0	3	—	4	16	0	25	9	0

ROTHAMSTED INSECT SURVEY

2(b)
of moths of economic, or other importance for 1978 and 1979

	Methwold Fen	Aberystwyth	Monks Wood	Broom's Barn	Tregaron	Llysdinam	Waresley	Luddington	Cockayne Hatley	Rhandirmwyn	Wolverstone	Trelech	Woodstock	Rothamsted (Barnfield)	Year	Pest Species
	301	340	94	88	331	111	360	355	336	346	334	233	182	1	1978	<i>Gortyna micacea</i>
12	8	37	0	27	7	16	1	23	24	0	—	8	12	1978	Rosy Rustic	
31	7	41	3	39	11	21	4	14	32	4	17	4	4	1979		
0	1	0	0	0	0	0	0	0	0	0	—	0	0	1978	<i>Bupalus piniaria</i>	
0	3	0	0	0	0	0	0	0	0	0	0	0	0	1979	Bordered White	
0	0	0	1	0	1	0	0	0	0	0	—	0	0	1978	<i>Panolis flammea</i>	
0	0	0	0	0	0	1	0	0	0	0	0	0	0	1979	Pine Beauty	
0	1	0	0	49	0	0	0	0	0	5	1	—	2	1978	<i>Cerapteryx graminis</i>	
0	1	0	1	88	1	0	0	0	0	3	1	2	0	1979	Antler Moth	
0	1	0	2	55	58	0	0	1	128	0	—	5	0	1978	<i>Erannis aurantiaria</i>	
2	3	0	0	115	27	0	0	0	0	309	0	0	0	1979	Scarce Umber	
0	0	0	0	65	0	1	0	0	4	0	—	0	0	1978	<i>Operophtera fagata</i>	
0	1	2	0	188	0	0	0	0	7	0	0	0	0	1979	Northern Winter Moth	
1	0	1	0	0	0	7	2	2	1	0	—	0	2	1978	<i>Apamea sordens</i>	
0	0	0	2	0	0	13	1	3	0	0	0	0	2	1979	Rustic Shoulder-knot	
15	0	3	0	10	2	2	0	0	9	1	—	0	0	1978	<i>Gortyna flavago</i>	
91	0	3	0	8	1	4	1	2	2	0	10	0	0	1979	Frosted Orange	
27	0	0	4	0	1	3	7	0	0	0	—	0	2	1978	<i>Mamestra brassicae</i>	
31	0	0	6	0	0	2	4	0	0	0	0	0	3	1979	Cabbage Moth	
7	8	11	5	42	32	17	11	6	19	10	—	11	45	1978	<i>Noctua pronuba</i>	
7	7	3	2	22	15	10	4	4	40	6	25	32	46	1979	Large Yellow Underwing	
9	4	0	5	4	0	34	7	8	4	1	—	0	4	1978	<i>Diataraxia oleracea</i>	
38	1	0	0	4	0	30	3	7	4	0	0	0	24	1979	Bright-line Brown-eye	
0	0	0	1	0	0	18	8	4	0	0	—	0	1	1978	<i>Euxoa nigricans</i>	
0	0	1	1	0	0	4	1	2	0	0	0	0	5	1979	Garden Dart	
11	37	6	10	16	15	64	21	32	9	6	—	1	87	1978	<i>Apamea secalis</i>	
7	27	3	5	10	10	38	4	10	8	2	49	0	90	1979	Common Rustic	
9	0	0	0	1	0	8	0	0	0	1	—	0	1	1978	<i>Melanchra persicariae</i>	
58	1	0	1	1	0	2	0	2	2	0	0	0	0	1979	Dot Moth	
0	26	0	1	325	187	3	8	14	257	2	—	2	1	1978	<i>Operophtera brumata</i>	
3	15	54	1	352	41	21	6	65	267	0	18	3	7	1979	Winter Moth	

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Pest Species	Year	Location													
		Rothamsted (Allotments)	Rothamsted (Geescroft)	Writtle	Chigwell Row	Westonbirt	Oxwich	Hurley	Cardiff	Sheerness	Sheppey	Stratfield Mortimer	Windlesham	Wisley	Pirbright
		34	22	87	305	292	409	180	347	394	370	16	171	289	179
<i>Gortyna micacea</i>	1978	58	3	3	0	0	—	5	0	—	7	—	0	1	—
Rosy Rustic	1979	2	10	2	1	2	40	8	0	0	12	3	0	2	16
<i>Bupalus piniaria</i>	1978	0	0	0	0	5	—	0	0	—	0	—	32	0	—
Bordered White	1979	0	0	0	0	4	0	0	0	0	0	0	5	2	1
<i>Panolis flammea</i>	1978	0	0	0	0	1	—	0	0	—	0	—	1	0	—
Pine Beauty	1979	0	0	0	0	0	0	0	0	0	0	0	1	0	1
<i>Cerapteryx graminis</i>	1978	0	0	0	0	0	—	0	0	—	1	—	0	0	—
Antler Moth	1979	1	0	0	1	0	13	0	0	0	0	0	0	1	3
<i>Erannis aurantiaria</i>	1978	0	13	1	0	17	—	3	0	—	0	—	22	0	—
Scarce Umber	1979	0	23	0	1	18	3	7	0	0	0	6	27	1	1
<i>Operophtera fagata</i>	1978	0	1	0	1	3	—	4	0	—	0	—	4	1	—
Northern Winter Moth	1979	0	3	0	3	4	0	10	0	0	1	0	0	1	0
<i>Apamea sordens</i>	1978	3	0	0	0	0	—	0	3	—	2	—	0	6	—
Rustic Shoulder-knot	1979	0	1	1	0	0	0	1	0	0	0	0	0	4	0
<i>Gortyna flavago</i>	1978	0	0	0	0	0	—	0	0	—	0	—	0	2	—
Frosted Orange	1979	0	1	0	0	1	3	1	0	0	0	1	0	1	0
<i>Mamestra brassicae</i>	1978	2	0	4	9	1	—	0	4	—	1	—	3	4	—
Cabbage Moth	1979	3	0	2	8	1	0	0	1	3	0	2	9	4	0
<i>Noctua pronuba</i>	1978	56	196	9	37	56	—	10	32	—	8	—	26	21	—
Large Yellow Underwing	1979	5	217	3	4	48	8	8	14	7	12	12	4	1	12
<i>Diataraxia oleracea</i>	1978	2	11	16	4	0	—	2	9	—	29	—	2	1	—
Bright-line Brown-eye	1979	3	8	14	4	0	3	2	10	16	20	2	2	1	11
<i>Euxoa nigricans</i>	1978	10	4	7	31	0	—	0	0	—	7	—	0	0	—
Garden Dart	1979	0	2	2	0	0	0	0	0	0	0	1	1	0	1
<i>Apamea secalis</i>	1978	118	35	68	34	44	—	35	70	—	36	—	10	50	—
Common Rustic	1979	7	57	21	25	39	25	17	35	3	17	11	6	16	63
<i>Melanchnra persicariae</i>	1978	1	0	0	0	0	—	0	0	—	2	—	1	3	—
Dot Moth	1979	0	3	3	0	0	2	1	0	0	1	0	0	0	0
<i>Operophtera brumata</i>	1978	0	101	5	3	41	—	6	5	—	4	—	11	14	—
Winter Moth	1979	0	156	19	7	29	22	14	2	0	3	162	13	9	0

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		Wye	Alice Holt	Haslemere	Winchester	West Buckland	Lydd	Denny Lodge	Slepe Farm	Starcross	Yarner Wood	Slapton Ley	Rosewarne	Guernsey	Jersey	Year	Pest Species
181	46	219	379	307	366	368	392	149	266	67	114	252	146	1978	6	<i>Gortyna micacea</i>	
7	4	3	2	20	10	0	0	8	5	23	4	2	1	1979	1	Rosy Rustic	
0	1	1	0	0	0	0	—	0	1	0	0	0	0	1978	0	<i>Bupalus piniaria</i>	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1979	0	Bordered White	
0	1	1	0	0	0	0	—	0	0	0	1	0	0	1978	0	<i>Panolis flammea</i>	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1979	0	Pine Beauty	
0	5	0	0	0	6	0	—	1	6	0	0	0	0	1978	0	<i>Cerapteryx graminis</i>	
0	10	1	0	1	33	0	3	6	6	0	0	0	0	1979	0	Antler Moth	
0	11	15	0	0	0	21	—	0	53	0	0	0	0	1978	0	<i>Erannis aurantiaria</i>	
3	—	16	0	2	0	15	0	0	63	0	0	0	0	1979	0	Scarce Umber	
3	0	1	0	0	0	0	—	0	0	0	0	0	0	1978	0	<i>Operophtera fagata</i>	
12	—	2	0	1	0	0	0	0	1	0	0	0	0	1979	0	Northern Winter Moth	
0	0	0	1	0	0	0	—	0	0	0	2	1	0	1978	0	<i>Apamea sordens</i>	
5	0	0	2	0	0	0	0	0	0	0	0	0	0	1979	0	Rustic Shoulder-knot	
0	1	0	0	3	0	0	—	0	1	0	1	0	0	1978	0	<i>Gortyna flavago</i>	
0	1	0	1	10	0	1	0	0	8	0	0	0	1	1979	1	Frosted Orange	
3	0	2	1	3	2	0	—	0	0	5	4	4	10	1978	4	<i>Mamestra brassicae</i>	
4	0	5	5	5	0	0	1	1	0	6	5	1	11	1979	11	Cabbage Moth	
23	25	24	24	2	6	8	—	3	36	14	3	9	3	1978	3	<i>Noctua pronuba</i>	
14	10	9	22	9	3	2	1	0	29	16	7	1	0	1979	0	Large Yellow Underwing	
17	1	4	16	3	1	1	—	0	11	8	6	10	4	1978	4	<i>Diataraxia oleracea</i>	
12	1	6	30	1	4	3	0	1	1	11	10	10	9	1979	9	Bright-line Brown-eye	
0	0	0	0	0	1	0	—	0	0	0	0	0	0	1978	0	<i>Euxoa nigricans</i>	
0	0	0	0	0	0	0	0	0	0	0	6	0	0	1979	0	Garden Dart	
19	17	19	62	26	71	3	—	14	26	77	10	3	5	1978	5	<i>Apamea secalis</i>	
43	16	9	55	19	321	1	14	9	30	55	8	3	16	1979	16	Common Rustic	
8	0	1	1	2	7	0	—	0	0	5	0	0	0	1978	0	<i>Melanchra persicariae</i>	
7	0	1	1	5	3	0	0	0	0	5	3	0	0	1979	0	Dot Moth	
42	20	43	2	13	0	22	—	6	395	0	1	0	0	1978	0	<i>Operophtera brumata</i>	
95	—	20	4	11	0	2	0	6	269	0	3	1	3	1979	3	Winter Moth	

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Pest Species	Year	Inverpolly	Cromarty	Beinn Eighe	Fort Augustus	Rannoch	Dundee	Rowardennan	East Craigs	Culzean Castle	Auchincruive	Kielder	Rochester	Chester le Street	Moor House
		352	398	350	49	29	47	97	261	264	293	296	278	39	281
<i>Abraxas grossulariata</i>	1978	3	—	99	0	0	0	0	0	1	0	0	—	2	0
Magpie Moth	1979	13	0	80	0	0	0	0	0	1	0	0	0	2	0
<i>Agrotis segetum</i>	1978	0	—	0	0	0	23	0	0	0	0	0	—	1	0
Turnip Moth	1979	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Erannis defoliaria</i>	1978	—	—	10	21	241	3	9722	0	3	0	17	—	4	0
Mottled Umber	1979	1	3	4	11	24	1	1984	0	5	0	13	0	0	1
<i>Phlogophora meticulosa</i>	1978	0	—	0	0	0	0	0	1	0	0	1	—	0	0
Angle Shades	1979	0	0	0	0	0	0	0	0	0	0	0	0	0	7
<i>Alsophila aescularia</i>	1978	0	—	0	5	0	1	133	0	1	0	0	—	3	0
March Moth	1979	0	0	0	1	0	3	66	1	8	1	0	0	2	0
<i>Hepialus humuli</i>	1978	0	—	0	0	0	0	1	0	0	0	0	—	1	0
Ghost Swift	1979	0	2	0	0	3	0	0	0	4	0	0	0	0	2
<i>Hepialus lupulina</i>	1978	0	—	0	0	14	0	2	0	0	2	2	—	1	0
Common Swift	1979	7	0	0	1	7	1	0	0	0	7	0	0	0	0
<i>Agrotis ipsilon</i>	1978	0	—	0	0	0	0	0	0	0	0	0	—	0	0
Dark Sword Grass	1979	1	2	0	0	0	0	0	0	0	0	1	0	0	1
<i>Euproctis chrysorrhoea</i>	1978	0	—	0	0	0	0	0	0	0	0	0	—	0	0
Brown-tail	1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrotis exclamationis</i>	1978	0	—	0	1	0	47	0	74	80	27	5	—	55	1
Heart and Dart	1979	0	2	1	2	0	6	0	15	54	29	0	0	8	0
<i>Plusia gamma</i>	1978	0	—	0	1	1	0	0	0	0	0	3	—	21	0
Silver Y	1979	0	3	0	1	6	2	0	0	4	0	0	0	26	3
<i>Laphygma exigua</i>	1978	0	—	0	0	0	0	0	0	0	0	0	—	0	0
Small Mottled Willow	1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nyctosea obstipata</i>	1978	0	—	0	0	0	0	0	0	0	0	0	—	0	0
The Gem	1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nomophila noctuella</i>	1978	0	—	0	0	0	—	0	0	0	0	0	—	0	0
Rush Veneer Pearl	1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plutella maculipennis</i>	1978	0	—	18	0	0	—	0	0	0	0	2	—	0	0
Diamond-back Moth	1979	0	2	0	0	0	0	0	0	0	29	0	0	0	0
<i>Udea ferrugalis</i>	1978	0	—	0	0	0	—	0	0	0	0	4	—	0	0
Rusty Dot Pearl	1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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		Middleton in Teesdale	Arnside	Baldersby	Castletown, I.O.M.	Acomb	Preston	Longridge	Tarleton	Spurn Head	East Didsbury	Edale	Wilmslow	Rischoleme	Bangor	Year	Pest Species
263	403	315	306	363	288	124	371	131	269	365	402	96	35				
0	—	7	8	7	—	—	6	2	—	1	—	—	—	1	1978	<i>Abraxas grossulariata</i>	
0	10	11	13	5	4	0	7	1	0	0	4	3	1	1979	Magpie Moth		
0	—	1	1	3	—	—	0	0	—	0	—	—	0	1978	<i>Agrotis segetum</i>		
0	0	1	0	0	0	0	0	0	0	0	0	2	0	1979	Turnip Moth		
14	—	9	8	2	—	—	0	0	—	5	—	—	1	1978	<i>Erannis defoliaria</i>		
4	26	5	16	3	15	16	0	1	1	27	10	2	1	1979	Mottled Umber		
6	—	7	13	1	—	—	7	20	—	3	—	—	3	1978	<i>Phlogophora meticulosa</i>		
2	5	2	18	0	2	0	3	7	0	3	0	3	1	1979	Angle Shades		
4	—	9	0	0	—	—	1	0	—	3	—	—	0	1978	<i>Alsophila aescularia</i>		
8	24	20	0	0	11	7	1	0	1	2	6	2	0	1979	March Moth		
0	—	1	0	0	—	—	0	0	—	0	—	—	0	1978	<i>Hepialus humuli</i>		
2	0	0	0	0	2	0	0	0	0	0	0	0	0	1979	Ghost Swift		
0	—	9	0	1	—	—	11	35	—	1	—	—	0	1978	<i>Hepialus lupulina</i>		
0	1	9	0	0	3	0	2	6	4	0	3	0	0	1979	Common Swift		
0	—	0	0	0	—	—	0	0	—	0	—	—	0	1978	<i>Agrotis ipsilon</i>		
0	0	0	1	0	0	0	0	1	0	0	0	0	0	1979	Dark Sword Grass		
0	—	0	0	0	—	—	0	0	—	0	—	—	0	1978	<i>Euproctis chrysorrhoea</i>		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1979	Brown-tail		
42	—	93	1382	66	—	—	59	81	—	33	—	—	20	1978	<i>Agrotis exclamationis</i>		
32	9	11	124	15	14	11	8	18	11	2	2	8	5	1979	Heart and Dart		
28	—	40	17	31	—	—	15	78	—	1	—	—	0	1978	<i>Plusia gamma</i>		
17	19	47	40	86	14	1	21	66	0	12	8	29	1	1979	Silver Y		
0	—	0	0	0	—	—	0	0	—	0	—	—	0	1978	<i>Laphygma exigua</i>		
0	1	0	0	0	0	0	0	0	0	0	0	0	0	1979	Small Mottled Willow		
0	—	0	1	0	—	—	0	0	—	0	—	—	0	1978	<i>Nycterosea obstipata</i>		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1979	The Gem		
0	—	—	0	0	—	—	0	1	—	0	—	—	0	1978	<i>Nomophila noctuella</i>		
0	0	0	0	0	1	0	0	6	0	0	0	0	0	1979	Rush Veneer Pearl		
0	—	—	0	43	—	—	0	487	—	2	—	—	0	1978	<i>Plutella maculipennis</i>		
0	0	5	0	15	1	0	0	31	0	0	0	0	1	1979	Diamond-back Moth		
0	—	—	0	0	—	—	0	0	—	0	—	—	0	1978	<i>Udea ferrugalis</i>		
0	0	0	0	0	0	0	0	1	0	0	0	0	0	1979	Rusty Dot Pearl		

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Pest Species	Year	Jodrell Bank	Gleadthorpe	Matlock	Gibraltar Point	Empingham	Caythorpe	Wells next the Sea	West Bridgford	Shardlow	Sutton Bonington I	Terrington	Preston Montford	Wellington	Wolverhampton I
<i>Abraxas grossulariata</i> Magpie Moth	1978	0	0	25	1	56	—	14	—	3	—	3	4	—	0
	1979	1	2	28	0	44	4	11	1	6	0	0	0	4	0
<i>Agrotis segetum</i> Turnip Moth	1978	0	17	2	0	10	—	0	—	1	—	17	1	—	0
	1979	0	0	0	0	2	0	0	0	0	2	0	0	0	0
<i>Erannis defoliaria</i> Mottled Umber	1978	103	1	2	0	2	—	0	—	6	—	1	13	—	0
	1979	66	0	3	0	1	0	1	—	5	1	1	40	3	0
<i>Phlogophora meticulosa</i> Angle Shades	1978	3	2	6	5	15	—	5	—	8	—	28	0	—	0
	1979	0	1	1	1	6	8	1	0	0	2	15	3	6	0
<i>Alsophila aescularia</i> March Moth	1978	22	3	1	0	2	—	2	—	11	—	2	46	—	0
	1979	33	2	3	0	5	3	0	1	2	5	4	55	1	0
<i>Hepialus humuli</i> Ghost Swift	1978	0	0	0	0	0	—	0	—	0	—	0	0	—	0
	1979	1	0	0	0	0	0	2	0	0	1	0	1	1	0
<i>Hepialus lupulina</i> Common Swift	1978	0	18	6	0	82	—	11	—	33	—	34	0	—	0
	1979	2	10	4	4	57	3	4	2	3	44	9	0	2	0
<i>Agrotis ipsilon</i> Dark Sword Grass	1978	0	0	0	0	1	—	0	—	0	—	0	0	—	0
	1979	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Euproctis chrysorrhoea</i> Brown-tail	1978	0	0	0	1	0	—	0	—	0	—	0	0	—	0
	1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrotis exclamationis</i> Heart and Dart	1978	104	421	19	25	246	—	7	—	182	—	53	233	—	5
	1979	6	26	8	18	33	20	6	25	70	61	6	44	20	1
<i>Plusia gamma</i> Silver Y	1978	4	3	18	26	55	—	4	—	16	—	1	5	—	0
	1979	4	2	4	8	44	3	5	0	4	3	1	8	23	0
<i>Laphygma exigua</i> Small Mottled Willow	1978	0	0	0	0	0	—	0	—	0	—	0	0	—	0
	1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nyctosea obstipata</i> The Gem	1978	0	0	0	0	0	—	0	—	0	—	0	0	—	0
	1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nomophila noctuella</i> Rush Veneer Pearl	1978	0	0	0	0	0	—	0	—	0	—	0	0	—	0
	1979	0	0	0	0	0	0	0	0	—	0	0	0	0	0
<i>Plutella maculipennis</i> Diamond-back Moth	1978	0	14	12	0	7	—	0	—	40	—	5	75	—	0
	1979	0	0	6	0	3	0	0	0	—	1	0	0	0	0
<i>Udea ferrugalis</i> Rusty Dot Pearl	1978	0	0	0	0	0	—	0	—	0	—	0	0	—	0
	1979	0	0	0	0	0	0	0	0	—	0	0	0	0	0

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	Methwold Fen	Aberystwyth	Monks Wood	Broom's Barn	Tregaron	Llysdinam	Waresley	Luddington	Cockayne Hatley	Rhandirmwyn	Wolverstone	Trelech	Woodstock	Rothamsted (Barnfield)	Year	Pest Species
	301	340	94	88	331	111	360	355	336	346	334	233	182	1	1978	<i>Abraxas grossulariata</i>
	2	4	2	1	25	0	18	2	3	2	0	—	10	1	1978	<i>Abraxas grossulariata</i>
	1	12	6	2	17	0	18	0	10	3	1	41	12	3	1979	Magpie Moth
	22	0	2	2	0	0	3	0	46	0	4	—	0	6	1978	<i>Agrotis segetum</i>
	4	0	0	0	0	0	2	10	2	0	1	0	0	4	1979	Turnip Moth
	1	14	0	1	478	187	3	2	0	941	0	—	3	0	1978	<i>Erannis defoliaria</i>
	1	30	1	0	657	164	4	2	4	1452	0	14	0	0	1979	Mottled Umber
	14	2	6	5	13	2	19	5	4	5	4	—	1	0	1978	<i>Phlogophora meticulosa</i>
	13	1	2	1	5	2	6	5	1	8	2	9	13	0	1979	Angle Shades
	8	7	3	5	42	21	33	1	19	9	1	—	2	1	1978	<i>Alsophila aescularia</i>
	4	—	4	2	41	14	30	2	10	19	0	30	1	0	1979	March Moth
	0	0	0	0	0	2	0	0	0	0	0	—	0	0	1978	<i>Hepialus humuli</i>
	2	1	1	0	0	1	1	1	2	0	0	0	0	0	1979	Ghost Swift
	2	1	6	0	0	0	3	7	15	0	2	—	0	11	1978	<i>Hepialus lupulina</i>
	0	0	35	4	1	0	7	12	44	0	1	0	0	12	1979	Common Swift
	0	0	0	0	0	0	0	0	0	1	0	—	0	0	1978	<i>Agrotis ipsilon</i>
	0	0	0	0	1	1	0	0	0	0	0	4	0	0	1979	Dark Sword Grass
	0	0	0	0	0	0	0	0	0	0	4	—	0	0	1978	<i>Euproctis chrysorrhoea</i>
	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1979	Brown-tail
	42	122	53	32	185	214	84	86	56	82	74	—	3	49	1978	<i>Agrotis exclamationis</i>
	25	9	24	9	44	24	42	12	13	7	39	43	58	41	1979	Heart and Dart
	63	21	12	7	12	7	51	3	9	23	3	—	0	4	1978	<i>Plusia gamma</i>
	23	17	3	9	7	9	31	2	3	26	2	5	18	0	1979	Silver Y
	0	0	0	0	0	0	0	0	0	0	0	—	0	0	1978	<i>Laphygma exigua</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1979	Small Mottled Willow
	0	1	0	0	2	0	0	0	0	0	0	—	0	0	1978	<i>Nycterosea obstipata</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1979	The Gem
	0	—	0	0	—	—	0	0	0	0	0	—	0	0	1978	<i>Nomophila noctuella</i>
	0	—	0	0	—	—	0	3	1	0	1	0	0	0	1979	Rush Veneer Pearl
	0	—	0	6	—	—	44	16	92	1	0	—	0	201	1978	<i>Plutella maculipennis</i>
	1	—	10	3	—	—	22	37	31	0	0	0	0	49	1979	Diamond-back Moth
	0	—	0	0	—	—	0	0	0	11	0	—	0	0	1978	<i>Udea ferrugalis</i>
	0	—	0	1	—	—	0	0	1	2	0	0	0	0	1979	Rusty Dot Pearl

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Pest Species	Year	Allotments													
		Rothamsted (Allotments) 34	Rothamsted (Geescroft) 22	Writtle 87	Chigwell Row 305	Westonbirt 292	Oxwich 409	Hurley 180	Cardiff 347	Sheerness 394	Sheppey 370	Stratfield Mortimer 16	Windlesham 171	Wisley 289	Pirbright 179
<i>Abraxas grossulariata</i> Magpie Moth	1978	4	54	7	5	1	—	1	6	—	6	—	0	0	—
	1979	1	41	7	0	7	22	0	8	12	0	23	0	0	0
<i>Agrotis segetum</i> Turnip Moth	1978	0	7	8	0	0	—	0	1	—	0	—	0	4	—
	1979	1	8	2	0	3	0	1	0	0	0	0	0	2	0
<i>Erannis defoliaria</i> Mottled Umber	1978	0	16	1	1	47	—	8	0	—	0	—	26	3	—
	1979	0	43	3	1	79	30	5	0	0	0	28	33	9	1
<i>Phlogophora meticulosa</i> Angle Shades	1978	5	12	1	6	22	—	1	4	—	1	—	3	4	—
	1979	0	4	1	2	10	5	0	1	0	8	0	0	0	0
<i>Alsophila aescularia</i> March Moth	1978	0	40	3	0	6	—	6	0	—	0	—	8	9	—
	1979	0	36	0	0	8	13	24	0	0	0	17	5	7	24
<i>Hepialus humuli</i> Ghost Swift	1978	0	0	0	0	—	—	1	0	—	0	—	0	0	—
	1979	1	3	0	2	2	0	0	0	0	0	1	1	1	1
<i>Hepialus lupulina</i> Common Swift	1978	37	9	2	9	4	—	8	17	—	27	—	33	2	—
	1979	1	10	3	19	13	0	28	27	4	13	8	8	0	0
<i>Agrotis ipsilon</i> Dark Sword Grass	1978	1	0	1	1	3	—	0	0	—	0	—	0	0	—
	1979	0	0	0	0	1	3	0	0	0	0	0	0	0	0
<i>Euproctis chrysorrhoea</i> Brown-tail	1978	0	0	2	6	0	—	0	0	—	54	—	0	0	—
	1979	0	0	2	3	0	0	0	0	5	19	0	0	0	0
<i>Agrotis exclamationis</i> Heart and Dart	1978	51	24	70	16	24	—	27	28	—	34	—	21	56	—
	1979	2	20	45	5	2	9	13	7	10	51	11	16	23	108
<i>Plusia gamma</i> Silver Y	1978	7	12	8	25	25	—	5	21	—	15	—	22	20	—
	1979	5	11	29	25	16	33	0	25	5	10	12	17	15	3
<i>Laphygma exigua</i> Small Mottled Willow	1978	0	0	0	0	0	—	0	0	—	0	—	0	0	—
	1979	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Nycterosea obstipata</i> The Gem	1978	0	0	0	0	0	—	0	0	—	0	—	0	0	—
	1979	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Nomophila noctuella</i> Rush Veneer Pearl	1978	0	0	0	0	0	—	0	0	—	0	—	0	1	—
	1979	0	0	—	0	0	0	0	0	0	0	0	0	0	0
<i>Plutella maculipennis</i> Diamond-back Moth	1978	130	0	66	5	0	—	1	23	—	122	—	4	101	—
	1979	35	0	—	7	0	0	0	3	8	29	0	1	25	0
<i>Udea ferrugalis</i> Rusty Dot Pearl	1978	0	0	0	0	0	—	0	0	—	0	—	0	0	—
	1979	0	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 1978 and 1979

	Wye	Alice Holt	Haslemere	Winchester	West Buckland	Lydd	Denny Lodge	Slepe Farm	Starcross	Yarner Wood	Slapton Ley	Rosewarne	Guernsey	Jersey	Year	Pest Species
	181	46	219	379	307	366	368	392	149	266	67	114	252	146		
	52	1	0	23	35	4	0	—	2	0	16	3	22	5	1978	<i>Abraxas grossulariata</i>
	19	0	0	15	31	6	0	0	7	3	27	4	9	8	1979	Magpie Moth
	0	0	0	3	0	0	0	—	1	0	1	8	2	0	1978	<i>Agrotis segetum</i>
	3	0	1	0	0	1	0	0	0	1	1	16	11	4	1979	Turnip Moth
	14	18	6	0	4	0	10	—	1	96	1	0	0	1	1978	<i>Erannis defoliaria</i>
	34	—	7	1	4	0	36	0	1	122	0	1	1	1	1979	Mottled Umber
	37	1	2	5	4	3	0	—	2	5	4	3	2	3	1978	<i>Phlogophora meticulosa</i>
	26	3	0	6	1	0	0	0	2	10	1	1	2	1	1979	Angle Shades
	30	4	2	3	3	1	3	—	2	16	2	2	0	7	1978	<i>Alsophila aescularia</i>
	64	23	5	4	10	0	3	0	1	39	7	1	0	5	1979	March Moth
	0	0	0	0	0	0	0	—	0	0	0	3	0	0	1978	<i>Hepialus humuli</i>
	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1979	Ghost Swift
	10	4	0	0	0	33	0	—	0	0	1	0	0	0	1978	<i>Hepialus lupulina</i>
	73	5	1	14	0	64	6	2	3	0	1	1	2	0	1979	Common Swift
	4	0	0	0	0	0	0	—	0	0	1	0	0	1	1978	<i>Agrotis ipsilon</i>
	2	0	0	0	0	0	0	0	0	7	3	2	2	0	1979	Dark Sword Grass
	1	0	0	0	0	21	0	—	0	0	0	0	0	0	1978	<i>Euproctis chryorrhoea</i>
	1	0	0	0	0	54	0	0	0	0	0	0	2	0	1979	Brown-tail
	160	34	21	83	98	25	11	—	19	19	64	97	11	23	1978	<i>Agrotis exclamationis</i>
	113	26	12	49	30	41	11	62	13	12	17	77	9	34	1979	Heart and Dart
	25	7	15	12	5	9	6	—	6	26	18	11	9	24	1978	<i>Plusia gamma</i>
	28	11	19	10	15	0	4	3	1	41	31	22	13	12	1979	Silver Y
	0	0	0	0	0	0	0	—	0	0	0	0	0	0	1978	<i>Laphygma exigua</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1979	Small Mottled Willow
	0	0	0	0	0	0	1	—	0	1	0	1	2	1	1978	<i>Nycterosea obstipata</i>
	0	0	0	0	0	0	0	0	0	0	2	0	1	0	1979	The Gem
	0	0	0	0	0	0	0	—	0	0	0	6	2	1	1978	<i>Nomophila noctuella</i>
	2	3	1	0	0	0	—	8	1	0	1	12	0	13	1979	Rush Veneer Pearl
	67	17	9	0	2	0	0	—	24	4	0	276	125	62	1978	<i>Plutella maculipennis</i>
	8	3	1	0	1	50	—	16	6	0	0	—	27	12	1979	Diamond-back Moth
	9	0	1	0	0	0	0	—	11	9	0	17	8	17	1978	<i>Udea ferrugalis</i>
	2	0	1	0	0	0	—	0	1	0	0	0	0	2	1979	Rusty Dot Pearl