

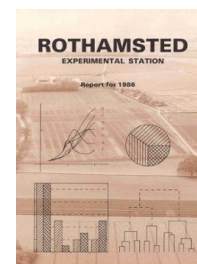
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ROTHAMSTED  
RESEARCH

## Rothamsted Experimental Station Report for 1986

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### Rothamsted Insect Survey, Eighteenth Annual Summary

**I. P. Woiwod, G. M. Tatchell, Maureen J. Dupuch, E. D. M. Macaulay, Susan J. Parker and M. S. Taylor**

I. P. Woiwod, G. M. Tatchell, Maureen J. Dupuch, E. D. M. Macaulay, Susan J. Parker and M. S. Taylor (1987) *Rothamsted Insect Survey, Eighteenth Annual Summary* ; Rothamsted Experimental Station Report For 1986, pp 289 - 321 - DOI: <https://doi.org/10.23637/ERADOC-1-33900>

## Rothamsted Insect Survey

### Eighteenth annual summary

I. P. WOIWOD, G. M. TATCHELL, MAUREEN J. DUPUCH,  
E. D. M. MACAULAY, SUSAN J. PARKER and M. S. TAYLOR

### Suction traps 1986

Samples were collected daily from 7 April to 11 November 1986, and weekly for the remainder of the year. These data were included in the *Aphid Bulletin*, which was issued weekly from 28 April (Bulletin No. 1) to 9 November (Bulletin No. 26). The 33 aphid taxa listed in Table 1 (a-h) are those in the *Aphid Bulletin*. The *Aphid Commentary* was issued with the *Aphid Bulletin* on 14 occasions during 1986. This provided regional interpretation of current trap samples for nine of the aphid pests of cereals, potatoes, sugar beet, field beans, peas, apples and hops. These interpretations were also made available via two agricultural viewdata services, Prestel Farmlink and Agviser.

The *Aphid Bulletin* and *Aphid Commentary*, despatched each Friday, provide information on aphids sampled between five and 12 days earlier. This timing is dictated by the postal services.

The *Aphid Bulletin* and *Aphid Commentary* cover the working week Monday to Sunday. Table 1 is for standard four-week periods constant from year to year (see *Rothamsted Report for 1972*, Part 2, 211, Table 4). *Aphid Bulletin* and standard weeks do not correspond in 1986.

The suction traps in Scotland at (916) Elgin, (907) Dundee, (912) East Craigs, (931) Pathhead, (923) Auchincruive, Ayr and also at (925) Stirling were operated and samples identified by Mrs L. A. D. Turl and colleagues at the Department of Agriculture and Fisheries for Scotland (DAFS), East Craigs.

The trap at (927) Belfast was operated and insect samples sorted by Dr A. C. Bell and colleagues of the Department of Agriculture for Northern Ireland.

The trap at (919) Shardlow is now operated by the Soil Survey of England and Wales.

The trap at (911) Aberystwyth is operated by kind permission of the Welsh Plant Breeding Station, by Mr K. Vincent.

The trap (937) at Headley Hall, Tadcaster, only operated from 1 August to 11 November 1986. The results from this trap do not appear in Table 1 nor did they appear in the *Aphid Bulletin* during 1986.

Suction traps sampling at 5 ft (1.5 m) were operating at (954) East Craigs and (951) Rothamsted Tower in 1986. The trap at (956) Ingraston no longer operates. Records for these do not appear in Table 1 nor did they appear in the *Aphid Bulletins*.

Sample volumes were halved at various sites as follows: (901) Rothamsted Tower from 9 August to 1 September, (905) High Mowthorpe, (922) Preston, (934) Kirton, (919) Shardlow, (917) Hereford, (936) Long Ashton, (903) Wye, (933) Littlehampton, from 11 August to 1 September, (924) Writtle from 11 August to 2 September, (937) Tadcaster from 11 August to 3 September, (906) Newcastle from 11 August to 10 September, (904) Broom's Barn 22 and 23 July and from 6 August to 27 August. In addition when numbers were high, catches were sub-sampled in the laboratory to reduce the pressure of work. The weekly *Bulletins* and Table 1 are corrected to full volume sample.

In Table 1 there are no missing values, a blank records a zero catch.

Aphid samples were identified at Rothamsted by Maureen Dupuch, Mark Taylor, Susan Parker, Debbie Riley, Veronica French and Caroline Mitchell; at East Craigs by Dr K. F. A. Walters and Mr F. G. Doyle, Mrs Noreen P. Gourlay and Mrs. L. A. D. Turl of DAFS; at Broom's Barn by Mr W. A. Thornhill and Dr A. M. Dewar. We appreciate their coopera-



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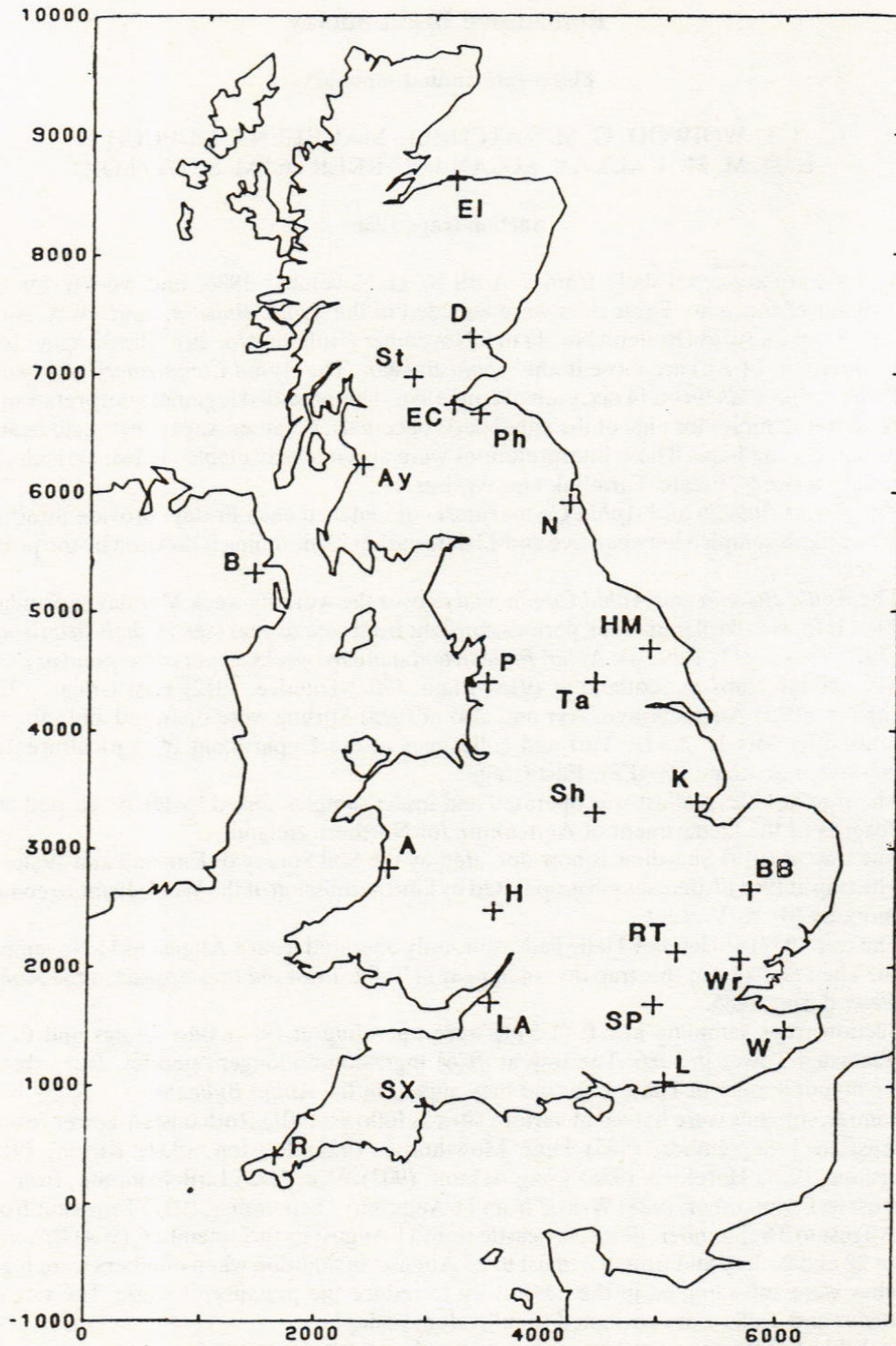


Fig. 1(a) Distribution of 24 12.2 metre suction trap sites operating during 1986.

+ indicate suction trap sites which are: El, Elgin; D, Dundee; St, Stirling; EC, East Craigs; Ph, Pathhead; Ay, Ayr; N, Newcastle; B, Belfast; HM, High Mowthorpe; Ta, Tadcaster; P, Preston; K, Kirton; Sh, Shardlow; A, Aberystwyth; BB, Broom's Barn; H, Hereford; RT, Rothamsted Tower; Wr, Writtle; LA, Long Ashton; SP, Silwood Park; W, Wye; L, Littlehampton; SX, Starcross; R, Rosewarne.



ROTHAMSTED INSECT SURVEY

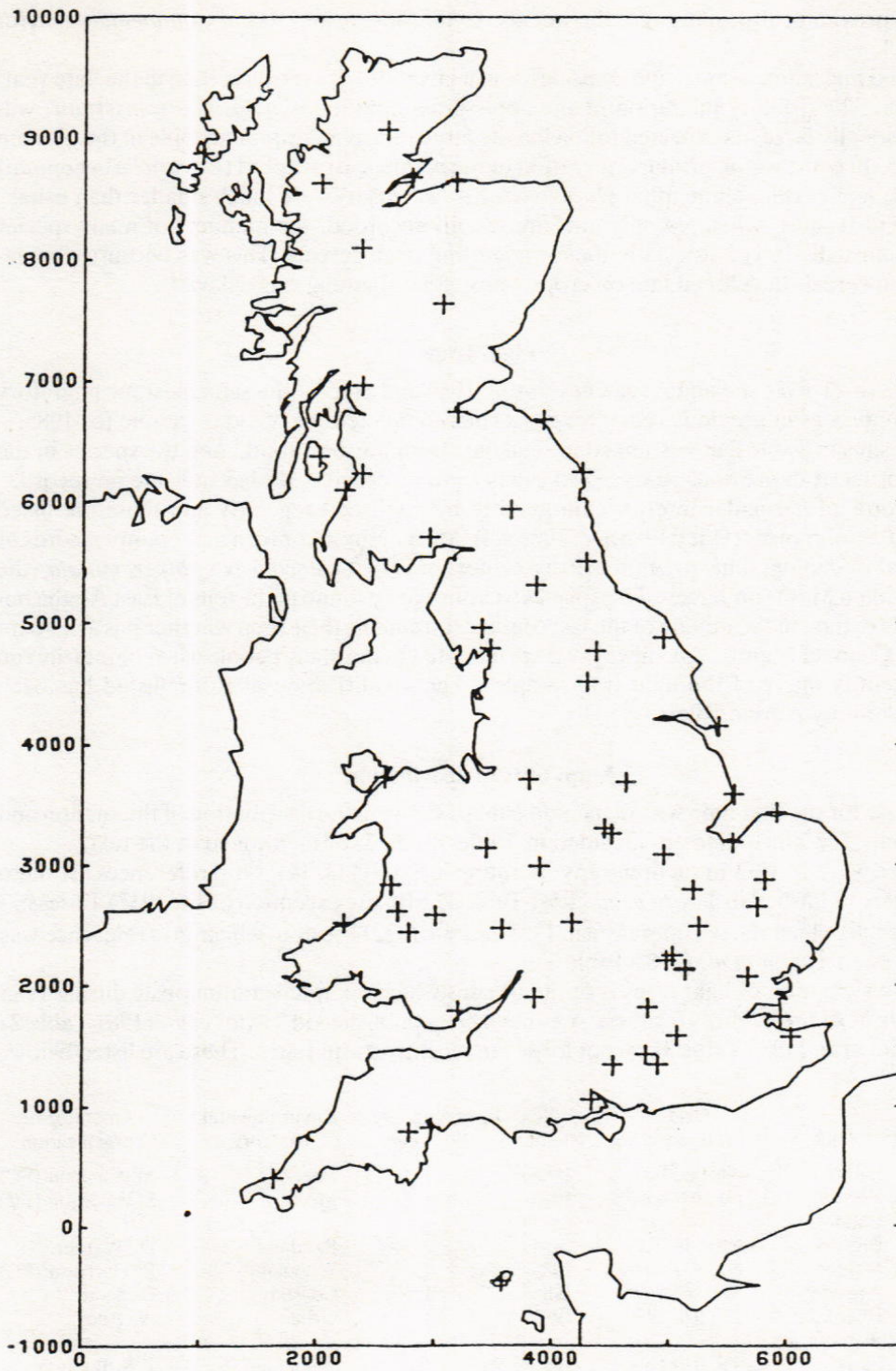


Fig. 1(b) Distribution of the 66 light trap sites in continuous operation during 1985.



## ROTHAMSTED REPORT FOR 1986, PART 2

tion in providing information for the weekly *Aphid Bulletin* and *Aphid Commentary* and for Table 1.

Aphid migration of most aphid species began late in 1986, even later than in the 'late year' of 1985. The primary migration of the apple-grass aphid (*Rhopalosiphum insertum*) was exceptionally large, as expected following the large return migration to apple in the autumn of 1985. In contrast the primary migration of the willow-carrot aphid (*Cavariella aegopodii*) and the leaf-curling plum aphid (*Brachycaudus helichrysi*) were much smaller than usual.

In mid-August, when few migrants are usually recorded, the numbers of many species were unusually large, especially those emigrating from cereals. This was because populations on cereals developed late on crops whose final ripening was delayed.

### Light traps

Table 2 (a-f) gives the annual catches during 1984 and 1985 of the same pest, or migratory Lepidoptera as in previous years. Sixty-six sites completed the 364-day sample for 1985.

The sites in Table 2 are arranged in sequence from north to south, and the species in the same order as in previous years. Zero catches are recorded 0; dashes indicate no record.

Records of particular interest continued to be published regularly and these are listed under the references (Riley 1985 a-c, 1986 a-i). Most of these concern new county records or unusual phenology but one noteworthy capture was of *Costaconvexa polygrammata* (the Many-lined Moth) on Jersey. This species was once to be found in the fens of East Anglia but became extinct in the middle of the last century. It remains to be seen whether it is a resident on the Channel Islands. As always we are indebted to the many people who voluntarily run and identify many of the light trap samples. The identification at Rothamsted has been carried out by Adrian Riley.

### Maps of trap distribution

This year for the first time we are including maps showing the distribution of the suction and light traps for which data are included in Tables 1 and 2, or mentioned in the text.

There were 24 12.2 m suction traps operating in 1986 (Fig. 1a). Grid references for these sites were published in Taylor *et al.* (1981 Table 1) with the exception of site (937) Tadcaster (SE435406) which started operation in 1985 and site (922) Preston, whose grid reference was corrected in Taylor *et al.* (1985 Table 3).

The distribution of light traps is of the 66 sites which operated continuously during 1985 (Fig. 1b). Grid references for these sites have been published in Taylor *et al.* (1981 Table 2) or Taylor *et al.* (1985 Table 3) except for seven recently started sites. These are listed below.

No.	Name	Grid reference	Years operating		Environmental category	Operator or organization
			1st year	No. years		
456	Lairg	NC 580 060	1985	1	Mixed	M. Canham (FC)
457	Newton Elgin	NJ 160 636	1985	1	Mixed	J. Davidson (FC)
446	Brodick	NS 014 380	1984	2	Parkland	D. Warner
454	Mabie	NX 951 707	1985	1	Woodland	P. Harrison (FC)
453	Arnside	SD 463 787	1985	1	Coastal	C. Scott
452	Houghton Regis	TL 028 247	1985	1	Urban	A. Riley
451	Perry Woods	TR 040 565	1985	1	Woodland	J. S. Badmin

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- RILEY, A. M. (1985b) Late capture of *Chloroclystis chloerata* Mab. (Sloe Pug). *Entomologist's Record* **97**, 228.
- RILEY, A. M. (1985c) *Paracystola acroxantha* Meyrick (Lep.: Oecophoridae) at Camborne, Cornwall. *Entomologist's Record* **97**, 229.
- RILEY, A. M. (1986a) *Eupithecia distinctaria* H.-S. (Thyme Pug) (Lep.: Geometridae) in Ross-shire. *Entomologist's Record* **98**, 81–82.
- RILEY, A. M. (1986b) A review of the Status of *Eupithecia goossensiata* Mab. (The Ling Pug) and *E. absinthiata* C1. (The Wormwood Pug) (Lep.: Geometridae). *Entomologist's Record* **98**, 85–89.
- RILEY, A. M. (1986c) *Eupithecia tenuiata* Hb. (Slender Pug) in Inverness-shire. *Entomologist's Record* **98**, 125.
- RILEY, A. M. (1986d) *Costaconvexa polygrammata* Bork. (Lep.: Geometridae) on Jersey. *Entomologist's Gazette* **37**, 68.
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TABLES 1(a)–1(h)  
AND  
TABLES 2(a)–2(f)



ROTHAMSTED REPORT FOR 1986, PART 2

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

Sites	Elgin (916)	Dundee (907)	Edinburgh (912)	Pathhead (931)	Auchincruive (923)	Newcastle (906)	Belfast (927)	High Mowthorpe (905)	Preston (922)	Kirton (934)	Shardlow (919)
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>Chaetosiphon fragaefolii</i>											
<i>Cinara</i> spp.											
<i>Drepanosiphum platanoidis</i>							1		22	2	88
<i>Dysaphis plantaginea</i>											
<i>Elatobium abietinum</i>							2				
<i>Eriosoma ulmi</i>											
<i>Hyalopterus pruni</i>											
<i>Hyperomyzus lactucae</i>											
<i>Macrosiphum euphorbiae</i>											1
<i>Megoura viciae</i>											
<i>Metopolophium dirhodum</i>											
<i>Metopolophium festucae</i> s.l.											
<i>Myzus ascalonicus</i>											1
<i>Myzus certus</i>											
<i>Myzus ornatus</i>											
<i>Myzus persicae</i> grp.											
<i>Nasonovia ribisnigri</i>											
<i>Pemphigus</i> spp.											
<i>Phorodon humuli</i>											
<i>Phyllaphis fagi</i>										1	
<i>Rhopalosiphum insertum</i>											
<i>Rhopalosiphum maidis</i>											
<i>Rhopalosiphum padi</i>											
<i>Sitobion avenae</i>											
<i>Sitobion fragariae</i>											
First aphid caught							May 20		May 19	May 19	May 16-18

Long Ashton II 10-16 March, 1 *Myzus ascalonicus*  
Rosewarne 17-23 March, 1 *Myzus ornatus*

ROTHAMSTED INSECT SURVEY

1(a)  
of aphids of economic, or other, interest reported in the Weekly Bulletin 1986  
23 April to 20 May 1986

											Sites	Species
Aberystwyth (911)	Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Long Ashton II (936)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)		
			1									<i>Acyrtosiphon pisum</i>
				1		1						<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>Chaetosiphon fragaefolii</i>
												<i>Cinara</i> spp.
9	4		2	6		6	5	12	2			<i>Drepanosiphum platanoidis</i>
24		1		2	2			1	1			<i>Dysaphis plantaginea</i>
												<i>Elatobium abietinum</i>
												<i>Eriosoma ulmi</i>
												<i>Hyalopterus pruni</i>
												<i>Hyperomyzus lactucae</i>
											1	<i>Macrosiphum euphorbiae</i>
												<i>Megoura viciae</i>
2				1	2				1	2		<i>Metopolophium dirhodum</i>
1		1		2		1	2	1	1	1		<i>Metopolophium festucae</i> s.l.
												<i>Myzus ascalonicus</i>
												<i>Myzus certus</i>
												<i>Myzus ornatus</i>
								1				<i>Myzus persicae</i> grp.
												<i>Nasonovia ribisnigri</i>
												<i>Pemphigus</i> spp.
												<i>Phorodon humuli</i>
												<i>Phyllaphis fagi</i>
	1		1	3		1						<i>Rhopalosiphum insertum</i>
												<i>Rhopalosiphum maidis</i>
												<i>Rhopalosiphum padi</i>
3												<i>Sitobion avenae</i>
												<i>Sitobion fragariae</i>
April 23	May 19	May 19	May 19	April 25	March 10-16	May 16	May 16	May 18	May 20	March 17-23		First aphid caught



ROTHAMSTED REPORT FOR 1986, PART 2

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

Species	Sites										
	Elgin (916)	Dundee (907)	Edinburgh (912)	Pathhead (931)	Auchincruive (923)	Newcastle (906)	Belfast (927)	High Mowthorpe (905)	Preston (922)	Kirton (934)	Shardlow (919)
<i>Acyrtosiphon pisum</i>	1		2								
<i>Amphorophora rubi</i>									1		
<i>Aphis fabae</i> grp.									1		1
<i>Aphis</i> spp.		1				1	2	2	1		4
<i>Aulacorthum solani</i>							1		1	1	1
<i>Brachycaudus helichrysi</i>	1		2	1	3	6	22	27	59	15	18
<i>Brevicoryne brassicae</i>											
<i>Cavariella aegopodii</i>	2	1	3	2	2		2	1	16	2	20
<i>Chaetosiphon fragaefolii</i>											
<i>Cinara</i> spp.											1
<i>Drepanosiphum platanoidis</i>	183	252	356	114	166	246	307	1736	515	121	302
<i>Dysaphis plantaginea</i>											
<i>Elatobium abietinum</i>	52	19	18	37	64	48	50	16	5	1	
<i>Eriosoma ulmi</i>						2				8	6
<i>Hyalopterus pruni</i>				1				1		7	4
<i>Hyperomyzus lactucae</i>		3					2	3	18	2	4
<i>Macrosiphum euphorbiae</i>							9				3
<i>Megoura viciae</i>											
<i>Metopolophium dirhodum</i>		2	3	1			2				1
<i>Metopolophium festucae</i> s.l.			1		3	2	18		6		15
<i>Myzus ascalonicus</i>	1		3	3	8	2	32	2	7	8	8
<i>Myzus certus</i>											
<i>Myzus ornatus</i>											
<i>Myzus persicae</i> grp.											
<i>Nasonovia ribisnigri</i>	2		3	1			1		1	1	1
<i>Pemphigus</i> spp.	1										
<i>Phorodon humuli</i>								1		3	4
<i>Phyllaphis fagi</i>	12	7	6	7	13	1	39	10	3	24	4
<i>Rhopalosiphum insertum</i>	2	5	5	3	20	11	235	60	233	193	155
<i>Rhopalosiphum maidis</i>							3			6	
<i>Rhopalosiphum padi</i>	8	6	10	4	9		3	1		2	
<i>Sitobion avenae</i>		1				1			1	1	
<i>Sitobion fragariae</i>			3	1		2	1	1	2		2
First aphid caught	May 29	May 25	May 28	May 27	May 25	May 28		May 24			

ROTHAMSTED INSECT SURVEY

1(b)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1986  
21 May to 17 June 1986

											Sites	Species
Aberystwyth (911)	Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Long Ashton II (936)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)		
		3		1	1	1	4		1	1		<i>Acyrtosiphon pisum</i>
		2	2	1	7	11	1	10	1	1		<i>Amphorophora rubi</i>
4	1	9	2	13	20	15	9	5	5			<i>Aphis fabae</i> grp.
2				2			2					<i>Aphis</i> spp.
187	57	178	87	159	133	170	117	431	36	74		<i>Aulacorthum solani</i>
												<i>Brachycaudus helichrysi</i>
48	12	48	24	41	55	68	38	194	33	45		<i>Brevicoryne brassicae</i>
												<i>Cavariella aegopodii</i>
												<i>Chaetosiphon fragaefolii</i>
												<i>Cinara</i> spp.
220	14	34	19	96	104	134	28	256	71	222		<i>Drepanosiphum platanoidis</i>
	1			3								<i>Dysaphis plantaginea</i>
140	9	8	2	3	18	30	22	133	36	17		<i>Elatobium abietinum</i>
	4	17		25	5	17	1	2	2			<i>Eriosoma ulmi</i>
1	4	3	1	10		3	2	1	2			<i>Hyalopterus pruni</i>
1		2	8		15	13	7	7	2	3		<i>Hyperomyzus lactucae</i>
2	1			2	3	1	7	3	8	4		<i>Macrosiphum euphorbiae</i>
												<i>Megoura viciae</i>
1					8	1			17	9		<i>Metopolophium dirhodum</i>
7		15	1	3	38	9	5	20	48	14		<i>Metopolophium festucae s.l.</i>
7	2	4	9	3	7	11	8	15	10	8		<i>Myzus ascalonicus</i>
												<i>Myzus certus</i>
1									1			<i>Myzus ornatus</i>
						2		3				<i>Myzus persicae</i> grp.
1		1	1	1	1	2	1	1				<i>Nasonovia ribisnigri</i>
	2		1	1								<i>Pemphigus</i> spp.
13	7	58	12	36	25	33	96	50	1	1		<i>Phorodon humuli</i>
8	5	4	11	11	12	22	23	15	8	14		<i>Phyllaphis fagi</i>
167	80	1241	282	92	923	148	128	311	90	17		<i>Rhopalosiphum insertum</i>
1			1			1	5	1	2	1		<i>Rhopalosiphum maidis</i>
10	1	3	1	1	2	3		2	5			<i>Rhopalosiphum padi</i>
			2	2	6	1	3	4	4	9		<i>Sitobion avenae</i>
6		3		8	9	15	8	39	12	22		<i>Sitobion fragariae</i>

First aphid caught



ROTHAMSTED REPORT FOR 1986, PART 2

TABLE

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

Species	Sites										
	Elgin (916)	Dundee (907)	Edinburgh (912)	Pathhead (931)	Auchincruive (923)	Newcastle (906)	Belfast (927)	High Mowthorpe (905)	Preston (922)	Kirton (934)	Shardlow (919)
<i>Acyrtosiphon pisum</i>	12	1	4		2	3	11	1	18	20	19
<i>Amphorophora rubi</i>								2			1
<i>Aphis fabae</i> grp.	2	1			1	2		2	1	24	7
<i>Aphis</i> spp.	13	5	3	5	5		9		43	34	61
<i>Aulacorthum solani</i>					2		3	1	5	1	2
<i>Brachycaudus helichrysi</i>	11	6	20	17	13	25	53	66	181	64	32
<i>Brevicoryne brassicae</i>										1	1
<i>Cavariella aegopodii</i>	3	17	34	31	10	4	35	12	100	12	63
<i>Chaetosiphon fragaefolii</i>			1								
<i>Cinara</i> spp.	1	3	5	10		1	3	7	4		
<i>Drepanosiphum platanoidis</i>	45	54	290	57	112	194	78	175	821	56	145
<i>Dysaphis plantaginea</i>								2	2		2
<i>Elatobium abietinum</i>	6	2	10	14	45	7	5	1	3		
<i>Eriosoma ulmi</i>	66	739	17	30	17	39	81	26	89	29	48
<i>Hyalopterus pruni</i>	3	3	2	2	3	1	11	43	81	39	39
<i>Hyperomyzus lactucae</i>	1	11	3			3	4	4	15	5	11
<i>Macrosiphum euphorbiae</i>	1	3	9	4	4	3	19	3	10	15	34
<i>Megoura viciae</i>	2		1		3	1	13	3	3		1
<i>Metopolophium dirhodum</i>	7	58	28	19	3	12	12	159	56	289	488
<i>Metopolophium festucae</i> s.l.	5	2	8	8	12	10	19	53	65	17	30
<i>Myzus ascalonicus</i>	1		3		2	2	11	3	1	2	3
<i>Myzus certus</i>			1						1		
<i>Myzus ornatus</i>			1		1	1	2				1
<i>Myzus persicae</i> grp.	1	1			1				1	5	1
<i>Nasonovia ribisnigri</i>			1				1				2
<i>Pemphigus</i> spp.	4	2	1	1		1	2	7	25	63	45
<i>Phorodon humuli</i>		1		2		1	10	22	13	9	12
<i>Phyllaphis fagi</i>	35	24	21	31	45	12	102	67	61	10	45
<i>Rhopalosiphum insertum</i>		6	3	3	123	22	352	142	1203	100	166
<i>Rhopalosiphum maidis</i>	1	1	3	2		2	32	2	8	15	2
<i>Rhopalosiphum padi</i>	6	6	8	11	14	1	5	12	2	38	2
<i>Sitobion avenae</i>	3	3	9	1		7	5	8	33	136	53
<i>Sitobion fragariae</i>			2	3		9	4	15	13	14	20

ROTHAMSTED INSECT SURVEY

1(c)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1986  
18 June to 15 July 1986

											Sites	Species
Aberystwyth (911)	Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Long Ashton II (936)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)		
4	53	20	35	111	8	14	60	51	26			<i>Acyrtosiphon pisum</i>
5				1			3	1		1		<i>Amphorophora rubi</i>
2	12	43	14	25	31	9	72	73	26	2		<i>Aphis fabae</i> grp.
12	42	28	60	112	90	103	135	155	16	9		<i>Aphis</i> spp.
	1	1		3			1		1	6		<i>Aulacorthum solani</i>
456	75	196	38	86	97	91	148	171	72	84		<i>Brachycaudus helichrysi</i>
	2			1	1	1	1	2	1			<i>Brevicoryne brassicae</i>
25	23	81	34	46	38	56	65	86	17	70		<i>Cavariella aegopodii</i>
							2	1				<i>Chaetosiphon fragaefolii</i>
5	1			6	4	1	3	1	3			<i>Cinara</i> spp.
65	148	206	28	67	43	55	28	72	22	23		<i>Drepanosiphum platanoidis</i>
	4	4	5	2	3	2	7	6	1			<i>Dysaphis plantaginea</i>
31		1	1	1	1		1		2			<i>Elatobium abietinum</i>
23	44	133	53	56	26	55	110	35	3	4		<i>Eriosoma ulmi</i>
30	73	110	222	166	73	174	374	151	66	1		<i>Hyalopterus pruni</i>
3	6	5	11	30	6	9	13	13	5	1		<i>Hyperomyzus lactucae</i>
7	4	4	6	20	9	5	17	17	28	1		<i>Macrosiphum euphorbiae</i>
				1	1	5	3	1		1		<i>Megoura viciae</i>
17	672	161	492	855	41	161	511	601	158	5		<i>Metopolophium dirhodum</i>
22	34	42	23	12	26	6	22	27	23	1		<i>Metopolophium festucae</i> s.l.
1	1	1	1		2	3		1	2	7		<i>Myzus ascalonicus</i>
				1				1				<i>Myzus certus</i>
												<i>Myzus ornatus</i>
1	25		3	27	3	3	8	35	2	5		<i>Myzus persicae</i> grp.
1	1	1	2	1			3	3	2	1		<i>Nasonovia ribisnigri</i>
2	69	35	55	152	18	73	140	31	13			<i>Pemphigus</i> spp.
87	25	235	39	127	223	86	480	112	9	2		<i>Phorodon humuli</i>
43	10	14	22	20	41	18	45	60	16	34		<i>Phyllaphis fagi</i>
76	65	586	167	106	1471	110	67	156	29	9		<i>Rhopalosiphum insertum</i>
25	13	1	15	13	9	4	19	6	56	57		<i>Rhopalosiphum maidis</i>
16	133	10	5	36	10	14	24	12	10	11		<i>Rhopalosiphum padi</i>
6	140	30	87	286	47	72	192	105	122	18		<i>Sitobion avenae</i>
6	6	25	34	72	19	69	73	90	41	20		<i>Sitobion fragariae</i>



ROTHAMSTED REPORT FOR 1986, PART 2

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

Species	Sites										
	Elgin (916)	Dundee (907)	Edinburgh (912)	Pathhead (931)	Auchincruive (923)	Newcastle (906)	Belfast (927)	High Mowthorpe (905)	Preston (922)	Kirton (934)	Shardlow (919)
<i>Acyrtosiphon pisum</i>	31	131	68	65	24	163	9	195	40	431	263
<i>Amphorophora rubi</i>						2					
<i>Aphis fabae</i> grp.	3	22	15	15	10	40	10	425	53	318	401
<i>Aphis</i> spp.	1	59	16	2	1	65	11	198	24	443	368
<i>Aulacorthum solani</i>							1	4	1	9	
<i>Brachycaudus helichrysi</i>	1	36	13	19	3	11	4	113	34	234	34
<i>Brevicoryne brassicae</i>								4		45	4
<i>Cavariella aegopodii</i>	3	9	9	7	3	7	13	17	16	7	13
<i>Chaetosiphon fragaefolii</i>									1		
<i>Cinara</i> spp.	1	3	3	2	3	1			1	1	2
<i>Drepanosiphum platanoidis</i>	5	28	37	15	28	233	111	54	227	29	174
<i>Dysaphis plantaginea</i>									2		
<i>Elatobium abietinum</i>											
<i>Eriosoma ulmi</i>	1	34	2		1	6	2	2	6		1
<i>Hyalopterus pruni</i>	6	20	4	4	13	19	14	239	126	117	96
<i>Hyperomyzus lactucae</i>		3	1			7		37		16	10
<i>Macrosiphum euphorbiae</i>	5	22	33	22	10	29	22	72	27	133	167
<i>Megoura viciae</i>	3						1				
<i>Metopolophium dirhodum</i>	39	2957	688	397	20	930	17	5175	34	8442	4656
<i>Metopolophium festucae</i> s.l.	1	15	71	39	13	40	3	107	41	43	20
<i>Myzus ascalonicus</i>		1	2								
<i>Myzus certus</i>								1	4	7	11
<i>Myzus ornatus</i>		1									1
<i>Myzus persicae</i> grp.		11	3	2	1	25	2	75	24	421	134
<i>Nasonovia ribisnigri</i>		2					1	4	1	5	5
<i>Pemphigus</i> spp.		2			5		2	12	9	41	11
<i>Phorodon humuli</i>		2	1				2	24	5	5	9
<i>Phyllaphis fagi</i>		20	2				5	14	8		
<i>Rhopalosiphum insertum</i>	51	438	176	116	2261	838	2536	1752	2735	593	397
<i>Rhopalosiphum maidis</i>	1	8	6			16	10	5	5	6	4
<i>Rhopalosiphum padi</i>	374	887	552	371	377	769	41	831	82	1133	113
<i>Sitobion avenae</i>	133	611	336	313	222	688	111	1726	187	6339	2637
<i>Sitobion fragariae</i>	8	92	135	33	8	95	5	364	27	127	171

ROTHAMSTED INSECT SURVEY

1(d)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1986  
16 July to 12 August 1986

											Sites	Species
Aberystwyth (911)	Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Long Ashton II (936)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)		
23	761	448	443	354	26	38	217	84	31	5		<i>Acyrtosiphon pisum</i>
1										1		<i>Amphorophora rubi</i>
113	894	224	486	298	74	56	168	135	64	4		<i>Aphis fabae</i> grp.
16	480	279	439	843	70	182	595	205	21	2		<i>Aphis</i> spp.
				4					1	3		<i>Aulacorthum solani</i>
7	207	17	28	47	7	11	67	20	5	1		<i>Brachycaudus helichrysi</i>
	19	1	1	10		2		4				<i>Brevicoryne brassicae</i>
2	42	38	11	12	8	10	9	5	1			<i>Cavariella aegopodii</i>
								1				<i>Chaetosiphon fragaefolii</i>
1				1			1					<i>Cinara</i> spp.
70	27	67	41	60	36	34	14	24	35	7		<i>Drepanosiphum platanoidis</i>
	2			1		3		1				<i>Dysaphis plantaginea</i>
1												<i>Elatobium abietinum</i>
		3					5					<i>Eriosoma ulmi</i>
9	257	136	261	424	74	222	626	113	62	3		<i>Hyalopterus pruni</i>
9	110	11	19	111	15	9	20	12	1			<i>Hyperomyzus lactucae</i>
24	84	116	45	73	12	19	47	20	18	1		<i>Macrosiphum euphorbiae</i>
				8	1	5	7	2				<i>Megoura viciae</i>
146	24393	1155	6328	3467	177	659	1173	259	112	5		<i>Metopolophium dirhodum</i>
12	91	79	28	19	1	11	39	7	2			<i>Metopolophium festucae</i> s.l.
												<i>Myzus ascalonicus</i>
	12	2	2	6		2	2		2	1		<i>Myzus certus</i>
						1		1				<i>Myzus ornatus</i>
53	1247	144	284	1190	116	31	116	62	4			<i>Myzus persicae</i> grp.
1	3		2	1		1	5			1		<i>Nasonovia ribisnigri</i>
12	34	12	6	42	2	14	34	7	1	1		<i>Pemphigus</i> spp.
3	9	8	20	29	14	7	224	8				<i>Phorodon humuli</i>
			2				2					<i>Phyllaphis fagi</i>
444	586	1677	887	889	1016	720	561	462	352	73		<i>Rhopalosiphum insertum</i>
15	12	16	22	23	25	10	34	7	9	18		<i>Rhopalosiphum maidis</i>
208	4832	278	1771	1143	126	205	231	93	125	71		<i>Rhopalosiphum padi</i>
1424	9878	2224	7006	5393	2617	1524	2455	403	960	153		<i>Sitobion avenae</i>
14	339	402	302	275	34	145	398	121	83	12		<i>Sitobion fragariae</i>



ROTHAMSTED REPORT FOR 1986, PART 2

Table

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

Species	Elgin (916)	Dundee (907)	Edinburgh (912)	Pathhead (931)	Auchincruive (923)	Newcastle (906)	Belfast (927)	High Mowthorpe (905)	Preston (922)	Kirton (934)	Shardlow (919)
<i>Acyrtosiphon pisum</i>	6	58	17	8	1	12	2	116	8	106	38
<i>Amphorophora rubi</i>											
<i>Aphis fabae</i> grp.	3	498	183	66	30	28	17	641	56	619	134
<i>Aphis</i> spp.		24	9	6		36	5	206	31	654	319
<i>Aulacorthum solani</i>											
<i>Brachycaudus helichrysi</i>	3	109	51	15	8	6	8	39	45	24	59
<i>Brevicoryne brassicae</i>				1							3
<i>Cavariella aegopodii</i>	1	16	12	7	2		1	8	14	41	11
<i>Chaetosiphon fragaefolii</i>											
<i>Cinara</i> spp.	1	3	1							11	3
<i>Drepanosiphum platanoidis</i>	8	52	20	15	12	194	50	28	165	14	123
<i>Dysaphis plantaginea</i>											
<i>Elatobium abietinum</i>											
<i>Eriosoma ulmi</i>		5			2						
<i>Hyalopterus pruni</i>	2	9	7		1	10	7	84	20	150	50
<i>Hyperomyzus lactucae</i>			1	1				4		1	10
<i>Macrosiphum euphorbiae</i>	3	23	20	9	2	16	3	65	3	22	32
<i>Megoura viciae</i>											2
<i>Metopolophium dirhodum</i>	13	459	33	93	4	176		1877	10	1064	1436
<i>Metopolophium festucae</i> s.l.		4	5	3	7	6				8	10
<i>Myzus ascalonicus</i>		1									
<i>Myzus certus</i>								6	2	2	
<i>Myzus ornatus</i>		1	2								
<i>Myzus persicae</i> grp.		7	2	1	2	16					
<i>Nasonovia ribisnigri</i>		1						34	10	177	69
<i>Pemphigus</i> spp.	1	4	12		5	2		8			
<i>Phorodon humuli</i>		1						2	10	34	11
<i>Phyllaphis fagi</i>		5						6			
<i>Rhopalosiphum insertum</i>	37	455	447	113	535	1288	322	1366	368	307	167
<i>Rhopalosiphum maidis</i>						2	3			2	
<i>Rhopalosiphum padi</i>	536	6363	1947	921	223	790	109	1275	411	4379	212
<i>Sitobion avenae</i>	77	328	277	167	151	332	26	1061	127	1989	1246
<i>Sitobion fragariae</i>	3	69	61	31	2	74	4	74	13	40	32

ROTHAMSTED INSECT SURVEY

1(e)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1986  
13 August to 9 September 1986

											Sites
Aberystwyth (911)	Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Long Ashton II (936)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)	Species
10	147	60	64	116		8	16	8	2	1	<i>Acyrtosiphon pisum</i>
1											<i>Amphorophora rubi</i>
46	1215	113	74	92	4	30	45	8	5	5	<i>Aphis fabae</i> grp.
28	386	132	179	454	20	86	98	69	3	4	<i>Aphis</i> spp.
											<i>Aulacorthum solani</i>
22	24	48	18	8	17	9	21	36	41	1	<i>Brachycaudus helichrysi</i>
	4	2	8	9	1	6	9		2		<i>Brevicoryne brassicae</i>
	71	1	9	2		3		7		1	<i>Cavariella aegopodii</i>
											<i>Chaetosiphon fragaefolii</i>
								2			<i>Cinara</i> spp.
74	107	154	89	90	76	65	53	21	57	79	<i>Drepanosiphum platanoidis</i>
						2	2				<i>Dysaphis plantaginea</i>
											<i>Elatobium abietinum</i>
	1										<i>Eriosoma ulmi</i>
6	133	32	86	96	25	33	105	81	31	3	<i>Hyalopterus pruni</i>
1	22			11			6		1		<i>Hyperomyzus lactucae</i>
8	40	43	2	28	2	2	6		3		<i>Macrosiphum euphorbiae</i>
	16		4	11		7	6		1	3	<i>Megoura viciae</i>
3	352	177	265	232	8	56	49	26	5	4	<i>Metopolophium dirhodum</i>
3		4			2	1	2			1	<i>Metopolophium festucae</i> s.l.
	2			2	1					1	<i>Myzus ascalonicus</i>
				1							<i>Myzus certus</i>
											<i>Myzus ornatus</i>
12	425	92	58	172	23	30	30	15	7	4	<i>Myzus persicae</i> grp.
							2	4			<i>Nasonovia ribisnigri</i>
22	21	10	15	10	14	34	29	53	40	2	<i>Pemphigus</i> spp.
		4	4	2			9	6			<i>Phorodon humuli</i>
					2						<i>Phyllaphis fagi</i>
315	75	345	175	149	167	185	182	301	198	118	<i>Rhopalosiphum insertum</i>
8	2	2			2	1	2	2	2	3	<i>Rhopalosiphum maidis</i>
125	4395	178	918	1964	66	171	554	258	81	107	<i>Rhopalosiphum padi</i>
395	1519	489	793	2081	133	487	382	294	71	24	<i>Sitobion avenae</i>
8	46	64	30	48	5	18	38	23	5	2	<i>Sitobion fragariae</i>



ROTHAMSTED REPORT FOR 1986, PART 2

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

Species	Elgin (916)	Dundee (907)	Edinburgh (912)	Pathhead (931)	Auchincruive (923)	Newcastle (906)	Belfast (927)	High Mowthorpe (905)	Preston (922)	Kirton (934)	Shardlow (919)
<i>Acyrtosiphon pisum</i>								1			
<i>Amphorophora rubi</i>	1		1								
<i>Aphis fabae</i> grp.	25	759	107	118	77	78	101	15	145	42	74
<i>Aphis</i> spp.		5	1		4	78	43	11	122	38	146
<i>Aulacorthum solani</i>					1				8	1	
<i>Brachycaudus helichrysi</i>	46	271	126	127	53	87	69	27	296	27	48
<i>Brevicoryne brassicae</i>		1		2				4		1	9
<i>Cavariella aegopodii</i>	99	35	6	19	10	4	9	1	3	5	9
<i>Chaetosiphon fragaefolii</i>											
<i>Cinara</i> spp.	3	11	4	2		2	2	3		4	2
<i>Drepanosiphum platanoidis</i>	172	831	502	283	622	566	1135	443	5041	1039	3807
<i>Dysaphis plantaginea</i>									10	1	1
<i>Elatobium abietinum</i>											
<i>Eriosoma ulmi</i>	3	40	4	4	8	12	14	8	14	10	9
<i>Hyalopterus pruni</i>	6	149	6		5		23	5	120	56	22
<i>Hyperomyzus lactucae</i>	2	3	2	1	2	8	6		2	1	13
<i>Macrosiphum euphorbiae</i>	4	2	11	3	6	11	53	5		1	1
<i>Megoura viciae</i>											
<i>Metopolophium dirhodum</i>	35	103	16	15	30	13	2		50	4	2
<i>Metopolophium festucae</i> s.l.	3	3	1	1	2				9	1	
<i>Myzus ascalonicus</i>	1				1						
<i>Myzus certus</i>											4
<i>Myzus ornatus</i>			1	2	1						1
<i>Myzus persicae</i> grp.	2	6	3		8	4	26	1	16	18	34
<i>Nasonovia ribisnigri</i>		2	5		4	2				1	1
<i>Pemphigus</i> spp.	58	189	171	40	98	60	106	58	394	208	162
<i>Phorodon humuli</i>											8
<i>Phyllaphis fagi</i>	3	110	41	18	7	13	14	8	10	2	
<i>Rhopalosiphum insertum</i>	1576	5282	2300	2783	8085	3847	16785	2931	29164	941	2793
<i>Rhopalosiphum maidis</i>		1	1	1						3	
<i>Rhopalosiphum padi</i>	3238	18380	9635	8048	5726	3646	6945	752	9899	1624	2643
<i>Sitobion avenae</i>	19	99	26	28	20	27	38	9	23		7
<i>Sitobion fragariae</i>	6	39	13	8	14	21	3		20		3

ROTHAMSTED INSECT SURVEY

1(f)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1986  
10 September to 7 October 1986

											Sites	Species
Aberystwyth (911)	Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Long Ashton II (936)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)		
					6							<i>Acyrtosiphon pisum</i>
61	7	14	16	3	3	10	2		7	18		<i>Amphorophora rubi</i>
134	21	92	20	20	35	25	34	19	17	12		<i>Aphis fabae</i> grp.
								1	2	2		<i>Aphis</i> spp.
								1	2	2		<i>Aulacorthum solani</i>
87	17	61	43	37	53	35	50	79	68	34		<i>Brachycaudus helichrysi</i>
	7	3	1	14	1	11	2	8	17			<i>Brevicoryne brassicae</i>
22	42	3	17	3	31	11	3	8	5	1		<i>Cavariella aegopodii</i>
												<i>Chaetosiphon fragaefolii</i>
	1	5		2	1	1		2	4			<i>Cinara</i> spp.
824	3171	395	1488	1450	2050	1606	1641	801	793	629		<i>Drepanosiphum platanoidis</i>
8	5	2	2		1	14		1	5	2		<i>Dysaphis plantaginea</i>
												<i>Elatobium abietinum</i>
5		1	1	9	4	5	21	6	2	4		<i>Eriosoma ulmi</i>
4	43	3	11	26	4	24	16	19	10	1		<i>Hyalopterus pruni</i>
16	1	9	4	4	14		4	4	11	2		<i>Hyperomyzus lactucae</i>
	1	2	1	2	3	6		1	11	1		<i>Macrosiphum euphorbiae</i>
									1			<i>Megoura viciae</i>
21	4	20	2	1	51	1	4	6	39	3		<i>Metopolophium dirhodum</i>
		1								1		<i>Metopolophium festucae s.l.</i>
			1									<i>Myzus ascalonicus</i>
								1				<i>Myzus certus</i>
												<i>Myzus ornatus</i>
64	21	54	8	2	9	2	5	2	25	4		<i>Myzus persicae</i> grp.
2			1	1	2	7	2					<i>Nasonovia ribisnigri</i>
457	503	118	39	36	272	55	49	89	143	25		<i>Pemphigus</i> spp.
		109	4			3	808	4	2			<i>Phorodon humuli</i>
									2			<i>Phyllaphis fagi</i>
14769	418	3753	855	255	3078	439	933	600	3141	3786		<i>Rhopalosiphum insertum</i>
1			1	1					1	4		<i>Rhopalosiphum maidis</i>
4654	1211	2974	705	882	2060	520	2541	1176	4927	844		<i>Rhopalosiphum padi</i>
13	6	10	3	4	12				10	12		<i>Sitobion avenae</i>
33		8			32	1	1		21	5		<i>Sitobion fragariae</i>



ROTHAMSTED REPORT FOR 1986, PART 2

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

Species	Sites										
	Elgin (916)	Dundee (907)	Edinburgh (912)	Pathhead (931)	Auchincruive (923)	Newcastle (906)	Belfast (927)	High Mowthorpe (905)	Preston (922)	Kirton (934)	Shardlow (919)
<i>Acyrtosiphon pisum</i>		1									
<i>Amphorophora rubi</i>			3	108		3	4		28	11	10
<i>Aphis fabae</i> grp.	4	31									
<i>Aphis</i> spp.						5	6	1	40	18	30
<i>Aulacorthum solani</i>							2			2	8
<i>Brachycaudus helichrysi</i>	11	4	6	21	2	10	1	1	18	2	14
<i>Brevicoryne brassicae</i>				1				3		5	26
<i>Cavariella aegopodii</i>	9	2	1	8	3	1	2	2	2	2	2
<i>Chaetosiphon fragaefolii</i>											
<i>Cinara</i> spp.		2		5		1				1	
<i>Drepanosiphum platanoidis</i>	31	182	84	69	29	216	57	232	1772	683	1507
<i>Dysaphis plantaginea</i>											
<i>Elatobium abietinum</i>											
<i>Eriosoma ulmi</i>	4	45	1	3		2	2		8	21	3
<i>Hyalopterus pruni</i>		25		2				2		13	15
<i>Hyperomyzus lactucae</i>	1	3		3			1		1	2	3
<i>Macrosiphum euphorbiae</i>	8	1		2	2	2	4				
<i>Megoura viciae</i>											
<i>Metopolophium dirhodum</i>	5	7	4	9	4	13	17	2	215	6	29
<i>Metopolophium festucae</i> s.l.	1	1		2	1		1				3
<i>Myzus ascalonicus</i>								1	3	1	1
<i>Myzus certus</i>											
<i>Myzus ornatus</i>			1								
<i>Myzus persicae</i> grp.	3	4		2		4	1	4	38	20	28
<i>Nasonovia ribisnigri</i>		2		1					12		
<i>Pemphigus</i> spp.	35	84	7	44	8	43	10	13	436	206	149
<i>Phorodon humuli</i>											3
<i>Phyllaphis fagi</i>	1	87	14	37	2	14	2	6		2	
<i>Rhopalosiphum insertum</i>	362	2388	724	3210	1424	2251	4898	1169	25671	234	2823
<i>Rhopalosiphum maidis</i>								3		6	2
<i>Rhopalosiphum padi</i>	408	2537	881	5076	296	718	797	403	10010	1420	3426
<i>Sitobion avenae</i>	6	2	1	5	3	8	5		8		
<i>Sitobion fragariae</i>	7	4	2	12	2	1	9	2	94		30

ROTHAMSTED INSECT SURVEY

1(g)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1986  
8 October to 4 November 1986

											Sites	Species
Aberystwyth (911)	Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Long Ashton II (936)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)		
						4						<i>Acyrtosiphon pisum</i>
												<i>Amphorophora rubi</i>
2	13			2		1	2	2	11	7		<i>Aphis fabae</i> grp.
16	15	4	5	5	10	5	1	3	3			<i>Aphis</i> spp.
					4	1		1				<i>Aulacorthum solani</i>
4	3		9	2	2	6	4	6	5	3		<i>Brachycaudus helichrysi</i>
			2	4		13	5		13			<i>Brevicoryne brassicae</i>
16	25	10	5	2	22	2	5	3	2	1		<i>Cavariella aegopodii</i>
												<i>Chaetosiphon fragaefolii</i>
8	2		2	1	4	5	4		1			<i>Cinara</i> spp.
544	862	117	686	880	377	819	308	137	117	36		<i>Drepanosiphum platanoidis</i>
	1			4		1		2	1			<i>Dysaphis plantaginea</i>
												<i>Elatobium abietinum</i>
		16	13	11	2	2	8	2	1	7		<i>Eriosoma ulmi</i>
	6	1	3	4		13	1	1				<i>Hyalopterus pruni</i>
	3	1	5	2	17	1	1	2	14			<i>Hyperomyzus lactucae</i>
4						1	3		5			<i>Macrosiphum euphorbiae</i>
												<i>Megoura viciae</i>
45		18	1	1	32	6	2	1	19			<i>Metopolophium dirhodum</i>
4		1										<i>Metopolophium festucae</i> s.l.
		3	1	1	4		1	5	2			<i>Myzus ascalonicus</i>
												<i>Myzus certus</i>
												<i>Myzus ornatus</i>
37	17	22	1	15	15		3	6	20	2		<i>Myzus persicae</i> grp.
34		9			5			1	2	2		<i>Nasonovia ribisnigri</i>
146	99	58	18	32	280	17	23	60	34	4		<i>Pemphigus</i> spp.
		17		1		3	228		2	1		<i>Phorodon humuli</i>
	3				1	1	2	1				<i>Phyllaphis fagi</i>
34539	189	2361	545	271	2267	509	606	728	4139	2034		<i>Rhopalosiphum insertum</i>
8	2	4	10	1		2	3	13	14	7		<i>Rhopalosiphum maidis</i>
4563	1611	2450	679	1843	2448	907	2003	1552	2909	301		<i>Rhopalosiphum padi</i>
12	3	4	1	1	7	3			27	3		<i>Sitobion avenae</i>
53		2		2	58	9	2	2	40	22		<i>Sitobion fragariae</i>



ROTHAMSTED REPORT FOR 1986, PART 2

TABLE

The Rothamsted Insect Survey—Suction Traps: four-weekly total catches  
Week Nos 45 to 48—

Species	Elgin (916)	Dundee (907)	Edinburgh (912)	Pathhead (931)	Auchincruive (923)	Newcastle (906)	Belfast (927)	High Mowthorpe (905)	Preston (922)	Kirton (934)	Shardlow (919)
<i>Acyrtosiphon pisum</i>											
<i>Amphorophora rubi</i>											
<i>Aphis fabae</i> grp.	1	2									
<i>Aphis</i> spp.											
<i>Aulacorthum solani</i>											
<i>Brachycaudus helichrysi</i>		1		1							
<i>Brevicoryne brassicae</i>											
<i>Cavariella aegopodii</i>							1				
<i>Chaetosiphon fragaefolii</i>											
<i>Cinara</i> spp.											
<i>Drepanosiphum platanoidis</i>		11		1		1	3	3			21
<i>Dysaphis plantaginea</i>											
<i>Elatobium abietinum</i>											
<i>Eriosoma ulmi</i>		4		1		1					
<i>Hyalopterus pruni</i>											
<i>Hyperomyzus lactucae</i>											1
<i>Macrosiphum euphorbiae</i>											
<i>Megoura viciae</i>											
<i>Metopolophium dirhodum</i>						1			5		1
<i>Metopolophium festucae</i> s.l.	2										
<i>Myzus ascalonicus</i>											1
<i>Myzus certus</i>							1				
<i>Myzus ornatus</i>											
<i>Myzus persicae</i> grp.									1	1	
<i>Nasonovia ribisnigri</i>											
<i>Pemphigus</i> spp.						1					
<i>Phorodon humuli</i>											
<i>Phyllaphis fagi</i>											
<i>Rhopalosiphum insertum</i>	4	37	36	1	7	5	16		51	3	47
<i>Rhopalosiphum maidis</i>											
<i>Rhopalosiphum padi</i>	1	5	7	1	3	1	2	2	19	6	32
<i>Sitobion avenae</i>	1										
<i>Sitobion fragariae</i>	2	1							2	1	3

ROTHAMSTED INSECT SURVEY

1(h)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1986  
5 November to 2 December 1986

											Sites	Species
Aberystwyth (911)	Broom's Barn (904)	Hereford (917)	Rothamsted Tower (901)	Writtle (924)	Long Ashton II (936)	Silwood Park (908)	Wye, Kent (903)	Littlehampton (933)	Starcross (913)	Rosewarne (910)		
	1				1	2		2	2			<i>Acyrtosiphon pisum</i>
												<i>Amphorophora rubi</i>
												<i>Aphis fabae</i> grp.
												<i>Aphis</i> spp.
												<i>Aulacorthum solani</i>
					2							<i>Brachycaudus helichrysi</i>
												<i>Brevicoryne brassicae</i>
												<i>Cavariella aegopodii</i>
												<i>Chaetosiphon fragaefolii</i>
												<i>Cinara</i> spp.
	1	1	3	1	1	4	1					<i>Drepanosiphum platanoidis</i>
				1								<i>Dysaphis plantaginea</i>
												<i>Elatobium abietinum</i>
2		2					1					<i>Eriosoma ulmi</i>
					1	1						<i>Hyalopterus pruni</i>
												<i>Hyperomyzus lactucae</i>
												<i>Macrosiphum euphorbiae</i>
												<i>Megoura viciae</i>
2					5		1		2			<i>Metopolophium dirhodum</i>
2												<i>Metopolophium festucae</i> s.l.
			3	2			3					<i>Myzus ascalonicus</i>
					1							<i>Myzus certus</i>
												<i>Myzus ornatus</i>
	1	1							2			<i>Myzus persicae</i> grp.
									1			<i>Nasonovia ribisnigri</i>
												<i>Pemphigus</i> spp.
												<i>Phorodon humuli</i>
												<i>Phyllaphis fagi</i>
169	2	38	16	8	46	15	2	10	63	93		<i>Rhopalosiphum insertum</i>
				1			1					<i>Rhopalosiphum maidis</i>
19	7	23	8	33	20	14	24	31	48	3		<i>Rhopalosiphum padi</i>
					1				1			<i>Sitobion avenae</i>
4		3			6	4	5	3	4	5		<i>Sitobion fragariae</i>



ROTHAMSTED REPORT FOR 1986, PART 2

TABLE  
The Rothamsted Insect Survey—Light Traps: annual records

Pest Species	Year	456 Lairg	349 Harris	398 Cromarty	457 Newton, Elgin	350 Beinn Eighe	49 Fort Augustus	48 Kindrogan	97 Rowardennan	261 East Craigs	375 St. Abb's	446 Brodick
<i>Hydraecia micacea</i> Rosy Rustic	1984	—	—	—	54	61	62	104	8	12	—	42
	1985	2	12	34	36	38	22	13	0	3	3	7
<i>Bupalus piniaria</i> Bordered White	1984	—	—	—	6	7	0	0	0	0	—	0
	1985	0	0	0	4	3	5	0	0	0	0	0
<i>Panolis flammea</i> Pine Beauty	1984	—	—	—	1	9	22	0	0	0	—	0
	1985	0	0	1	0	8	2	0	0	0	2	0
<i>Cerapteryx graminis</i> Antler Moth	1984	—	—	—	14	77	58	516	15	22	—	99
	1985	1	118	3	12	38	8	90	6	1	7	15
<i>Agriopis aurantiaria</i> Scarce Umber	1984	—	—	—	6	6	25	56	12	0	—	3
	1985	1	0	11	1	0	3	32	7	0	—	11
<i>Operophtera fagata</i> Northern Winter Moth	1984	—	—	—	3	0	7	30	56	0	—	5
	1985	0	0	19	6	0	15	55	46	0	—	3
<i>Apamea sordens</i> Rustic Shoulder-knot	1984	—	—	—	1	0	3	0	0	14	—	1
	1985	0	0	2	0	0	0	0	0	0	13	0
<i>Gortyna flavago</i> Frosted Orange	1984	—	—	—	5	0	0	0	0	0	—	0
	1985	0	0	0	1	0	0	0	0	0	1	0
<i>Mamestra brassicae</i> Cabbage Moth	1984	—	—	—	2	0	1	0	0	4	—	0
	1985	0	0	0	2	0	1	0	0	3	1	0
<i>Noctua pronuba</i> Large Yellow Underwing	1984	—	—	—	12	1	3	9	9	4	—	17
	1985	5	2	33	6	3	2	4	2	12	27	10
<i>Lacanobia oleracea</i> Bright-line Brown-eye	1984	—	—	—	4	0	1	0	0	12	—	0
	1985	2	0	0	1	2	0	0	0	8	5	0
<i>Euxoa nigricans</i> Garden Dart	1984	—	—	—	0	0	0	0	0	10	—	0
	1985	0	0	0	0	0	0	0	0	0	0	0
<i>Mesapamea secalis</i> Common Rustic	1984	—	—	—	22	9	11	4	0	66	—	15
	1985	4	1	36	65	6	9	2	3	49	78	12
<i>Melanchra persicariae</i> Dot Moth	1984	—	—	—	0	0	0	0	0	0	—	0
	1985	0	0	0	0	0	0	0	0	0	0	0
<i>Operophtera brumata</i> Winter Moth	1984	—	—	—	3	9	15	123	419	0	—	14
	1985	0	0	24	11	20	10	127	2286	0	—	12

## ROTHAMSTED INSECT SURVEY

2(a)

of moths of economic, or other importance for 1984 and 1985

	Low Newton-by-the-Sea	Auchincruive	Culzean Castle	Kielder	Mabie	Chester-le-Street	Forest-in-Teesdale	Windermere	Wykeham	Arnside	Baldersby	Year	Pest Species
	426	293	264	296	454	39	416	323	187	453	315	1984	<i>Hydraecia micacea</i>
	—	33	65	129	—	11	22	1	—	—	34	1985	Rosy Rustic
	69	0	34	30	5	1	0	0	22	12	15		
	—	0	0	2	—	0	0	0	—	—	1	1984	<i>Bupalus piniaria</i>
	0	0	7	0	0	0	0	0	1	1	0	1985	Bordered White
	—	0	7	0	—	0	0	0	—	—	0	1984	<i>Panolis flammea</i>
	0	0	1	0	0	0	0	0	1	0	0	1985	Pine Beauty
	—	13	17	61	—	0	429	79	—	—	5	1984	<i>Cerapteryx graminis</i>
	10	0	2	14	8	1	13	1	15	2	1	1985	Antler Moth
	—	0	0	21	—	0	0	0	—	—	0	1984	<i>Agriopsis aurantiaria</i>
	0	0	0	14	—	0	0	0	4	1	0	1985	Scarce Umber
	—	0	2	19	—	1	0	1	—	—	0	1984	<i>Operophtera fagata</i>
	4	0	1	21	—	0	0	2	9	0	0	1985	Northern Winter Moth
	—	6	0	0	—	1	0	1	—	—	8	1984	<i>Apamea sordens</i>
	8	1	0	2	0	1	0	0	0	0	15	1985	Rustic Shoulder-knot
	—	0	0	0	—	0	0	0	—	—	2	1984	<i>Gortyna flavago</i>
	10	0	0	0	0	2	0	0	0	0	0	1985	Frosted Orange
	—	0	0	1	—	8	0	2	—	—	10	1984	<i>Mamestra brassicae</i>
	1	0	1	0	2	5	0	0	0	3	14	1985	Cabbage Moth
	—	20	14	5	—	5	5	69	—	—	15	1984	<i>Noctua pronuba</i>
	18	4	28	8	31	16	9	11	8	37	14	1985	Large Yellow Underwing
	—	12	3	0	—	6	3	1	—	—	8	1984	<i>Lacanobia oleracea</i>
	61	10	6	0	0	7	0	0	5	1	36	1985	Bright-line Brown-eye
	—	0	0	0	—	3	0	0	—	—	0	1984	<i>Euxoa nigricans</i>
	0	0	0	0	1	8	0	0	0	0	0	1985	Garden Dart
	—	38	10	23	—	38	7	48	—	—	139	1984	<i>Mesapamea secalis</i>
	214	29	19	29	65	26	1	12	62	89	169	1985	Common Rustic
	—	0	0	0	—	0	0	9	—	—	1	1984	<i>Melanchra persicariae</i>
	0	0	0	0	0	0	0	2	0	1	7	1985	Dot Moth
	—	0	4	40	—	0	1	17	—	—	6	1984	<i>Operophtera brumata</i>
	10	0	2	42	—	4	0	254	28	23	0	1985	Winter Moth



ROTHAMSTED REPORT FOR 1986, PART 2

TABLE  
The Rothamsted Insect Survey—Light Traps: annual records

Pest Species	Year	Harrogate 410	Spurn Head 131	Bangor 35	Jodrell Bank 337	Sherwood Forest 439	Gibraltar Point 223	Wells-next-the-Sea 274	Shardlow 378	Sutton Borington 168	Terrington 381	Preston Montford 382
<i>Hydraecia micacea</i> Rosy Rustic	1984	13	29	0	—	—	—	0	9	19	18	7
	1985	4	54	0	3	4	23	0	4	4	9	10
<i>Bupalus piniaria</i> Bordered White	1984	0	0	0	—	—	—	0	0	0	1	0
	1985	1	0	0	0	0	0	0	2	0	6	0
<i>Panolis flammea</i> Pine Beauty	1984	1	0	0	—	—	—	0	0	0	0	0
	1985	0	0	0	1	0	0	0	0	0	0	0
<i>Cerapteryx graminis</i> Antler Moth	1984	5	10	5	—	—	—	0	1	0	0	8
	1985	1	6	0	8	29	1	0	0	0	0	0
<i>Agriopsis aurantiaria</i> Scarce Umber	1984	11	0	0	—	—	—	0	0	1	0	—
	1985	2	0	0	1	4	0	0	1	0	0	5
<i>Operophtera fagata</i> Northern Winter Moth	1984	13	0	0	—	—	—	0	0	0	0	—
	1985	3	0	0	8	3	0	0	0	0	0	2
<i>Apamea sordens</i> Rustic Shoulder-knot	1984	0	13	0	—	—	—	0	3	5	0	1
	1985	0	12	0	0	0	8	0	3	2	3	0
<i>Gortyna flavago</i> Frosted Orange	1984	14	1	0	—	—	—	0	0	1	1	0
	1985	3	1	0	0	0	0	0	1	1	4	1
<i>Mamestra brassicae</i> Cabbage Moth	1984	0	1	2	—	—	—	2	1	1	1	0
	1985	0	0	1	0	1	0	0	1	0	5	1
<i>Noctua pronuba</i> Large Yellow Underwing	1984	15	117	18	—	—	—	3	12	24	3	0
	1985	6	107	6	6	2	8	4	8	15	6	10
<i>Lacanobia oleracea</i> Bright-line Brown-eye	1984	0	111	0	—	—	—	0	25	30	10	3
	1985	0	21	0	0	1	1	1	44	8	34	2
<i>Euxoa nigricans</i> Garden Dart	1984	0	2	0	—	—	—	0	0	0	2	0
	1985	0	0	0	9	0	0	0	0	0	0	0
<i>Mesapamea secalis</i> Common Rustic	1984	21	54	41	—	—	—	3	138	100	39	173
	1985	75	47	14	18	4	3	6	67	44	83	95
<i>Melanchnra persicariae</i> Dot Moth	1984	0	1	0	—	—	—	2	3	0	5	0
	1985	0	1	0	0	1	0	1	0	5	3	0
<i>Operophtera brumata</i> Winter Moth	1984	68	2	0	—	—	—	3	1	21	0	—
	1985	54	0	0	32	1	3	0	2	6	0	8

ROTHAMSTED INSECT SURVEY

2(b)

of moths of economic, or other importance for 1984 and 1985

	Empingham	Compton Park	Santon Downham	Aberystwyth	Monks Wood (Ewingswode)	Broom's Barn	Tregaron	Llysdinam	Luddington	Aberporth	Cockayne Hatley	Year	Pest Species
	280	424	259	340	277	88	331	111	414	440	336		
	7	30	32	25	3	1	142	33	3	12	11	1984	<i>Hydraecia micacea</i>
	1	19	53	5	2	1	14	4	1	0	8	1985	Rosy Rustic
	1	0	0	1	0	0	0	0	0	0	0	1984	<i>Bupalus piniaria</i>
	0	0	0	0	0	0	0	0	0	1	0	1985	Bordered White
	0	0	68	3	0	0	0	9	0	0	0	1984	<i>Panolis flammea</i>
	0	0	23	1	0	1	0	8	0	0	0	1985	Pine Beauty
	0	0	18	98	0	0	720	75	0	182	1	1984	<i>Cerapteryx graminis</i>
	0	1	5	1	0	0	66	6	0	12	0	1985	Antler Moth
	2	0	4	—	31	0	—	14	0	0	1	1984	<i>Agriopsis aurantiaria</i>
	0	0	0	0	56	0	8	8	1	0	0	1985	Scarce Umber
	0	0	3	—	9	0	—	0	0	0	0	1984	<i>Operophtera fagata</i>
	0	0	2	3	10	0	74	3	1	0	0	1985	Northern Winter Moth
	0	1	6	0	0	2	0	0	0	0	2	1984	<i>Apamea sordens</i>
	0	5	2	0	0	1	0	0	0	0	0	1985	Rustic Shoulder-knot
	0	0	4	2	1	0	3	3	0	0	2	1984	<i>Gortyna flavago</i>
	0	0	2	0	1	0	2	1	0	0	2	1985	Frosted Orange
	11	0	1	0	0	10	1	0	3	0	1	1984	<i>Mamestra brassicae</i>
	4	1	1	2	0	3	0	0	1	0	0	1985	Cabbage Moth
	22	15	3	18	22	4	57	24	2	17	8	1984	<i>Noctua pronuba</i>
	24	32	1	13	18	4	18	4	6	14	8	1985	Large Yellow Underwing
	7	1	8	1	0	2	12	0	1	17	12	1984	<i>Lacanobia oleracea</i>
	2	3	1	3	0	0	14	0	1	4	13	1985	Bright-line Brown-eye
	0	0	0	0	4	2	0	0	3	0	0	1984	<i>Euxoa nigricans</i>
	0	0	0	0	0	0	0	0	0	0	3	1985	Garden Dart
	55	11	19	149	13	18	41	44	24	87	29	1984	<i>Mesapamea secalis</i>
	11	19	4	71	8	21	19	18	22	41	39	1985	Common Rustic
	20	2	13	5	1	1	0	0	5	27	1	1984	<i>Melanchra persicariae</i>
	6	2	78	2	1	2	0	0	2	18	1	1985	Dot Moth
	14	0	44	—	239	3	—	15	5	0	13	1984	<i>Operophtera brumata</i>
	15	0	54	12	170	0	146	42	4	1	3	1985	Winter Moth



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TABLE  
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Pest Species	Year	Hereford	Rhandirmwyn	Houghton Regis	Eaton Bray	Rothamsted (Barnfield)	Rothamsted (Allotments)	Rothamsted (Geescroft)	Writtle	Westonbirt	Hurley	Cardiff
		212	346	452	412	1	34	22	87	292	180	347
<i>Hydraecia micacea</i> Rosy Rustic	1984	15	11	—	—	19	8	1	3	1	0	0
	1985	28	4	2	6	8	17	3	0	3	1	1
<i>Bupalus piniaria</i> Bordered White	1984	0	0	—	—	0	0	0	0	0	0	0
	1985	0	0	0	0	0	0	0	0	0	0	0
<i>Panolis flammea</i> Pine Beauty	1984	0	0	—	—	0	0	0	0	1	0	0
	1985	0	0	0	0	0	0	0	0	1	0	0
<i>Cerapteryx graminis</i> Antler Moth	1984	1	123	—	—	0	0	0	0	0	0	1
	1985	0	10	0	0	0	0	0	0	0	0	0
<i>Agriopsis aurantiaria</i> Scarce Umber	1984	1	23	—	—	0	0	19	0	2	0	0
	1985	0	13	0	0	0	0	17	0	9	1	0
<i>Operophtera fagata</i> Northern Winter Moth	1984	0	4	—	—	0	0	0	0	2	0	0
	1985	0	1	0	0	0	0	0	0	9	1	0
<i>Apamea sordens</i> Rustic Shoulder-knot	1984	0	0	—	—	4	1	1	2	0	1	0
	1985	0	0	5	0	2	1	1	1	0	0	1
<i>Gortyna flavago</i> Frosted Orange	1984	1	1	—	—	0	0	0	0	0	0	0
	1985	0	2	0	2	0	0	1	2	0	0	0
<i>Mamestra brassicae</i> Cabbage Moth	1984	0	0	—	—	0	1	3	1	0	0	0
	1985	0	1	2	1	0	0	1	2	0	0	0
<i>Noctua pronuba</i> Large Yellow Underwing	1984	0	11	—	—	13	4	415	9	27	3	18
	1985	0	8	18	4	17	5	147	27	27	6	22
<i>Lacanobia oleracea</i> Bright-line Brown-eye	1984	0	7	—	—	18	0	5	19	0	0	5
	1985	0	9	8	9	6	0	2	33	0	1	3
<i>Euxoa nigricans</i> Garden Dart	1984	0	0	—	—	0	0	1	3	0	0	0
	1985	0	0	0	0	0	1	1	0	1	0	0
<i>Mesapamea secalis</i> Common Rustic	1984	44	7	—	—	322	35	110	57	41	186	69
	1985	23	0	14	23	140	18	50	77	43	47	14
<i>Melanchra persicariae</i> Dot Moth	1984	0	3	—	—	0	0	3	10	1	0	0
	1985	0	3	6	4	0	0	1	12	0	0	0
<i>Operophtera brumata</i> Winter Moth	1984	2	78	—	—	5	0	123	5	16	5	4
	1985	2	187	0	8	6	0	127	0	39	3	2

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	370	289	451	46	219	379	368	149	266	114	252	Year	Pest Species
	Sheppey	Wisley	Perry Woods	Alice Holt	Haslemere	Winchester	Denny Lodge	Starcross	Yarner Wood	Rosewarne	Guernsey		
1	1	—	4	2	3	1	11	5	3	1	1984	<i>Hydraecia micacea</i>	
1	1	17	0	0	7	2	8	6	0	3	1985	Rosy Rustic	
0	1	—	1	0	0	0	0	0	0	0	1984	<i>Bupalus piniaria</i>	
0	0	0	0	0	0	0	0	0	0	0	1985	Bordered White	
0	0	—	4	1	0	3	0	1	1	0	1984	<i>Panolis flammea</i>	
0	1	0	7	0	0	2	0	3	2	0	1985	Pine Beauty	
0	0	—	5	0	0	0	0	2	0	0	1984	<i>Cerapteryx graminis</i>	
2	2	0	2	0	0	0	0	4	0	0	1985	Antler Moth	
0	1	—	5	1	0	13	0	6	0	0	1984	<i>Agriopsis aurantiaria</i>	
0	4	0	2	0	0	5	0	9	0	0	1985	Scarce Umber	
0	6	—	3	0	0	10	0	5	0	0	1984	<i>Operophtera fagata</i>	
0	2	0	1	0	0	6	0	2	0	0	1985	Northern Winter Moth	
0	0	—	1	0	1	0	0	0	0	0	1984	<i>Apamea sordens</i>	
1	1	1	0	0	4	0	0	0	2	0	1985	Rustic Shoulder-knot	
0	1	—	1	1	0	0	0	5	0	0	1984	<i>Gortyna flavago</i>	
0	0	0	0	0	0	0	0	5	0	0	1985	Frosted Orange	
0	9	—	1	2	3	11	1	0	5	7	1984	<i>Mamestra brassicae</i>	
3	9	1	0	1	2	8	1	0	7	2	1985	Cabbage Moth	
10	11	—	23	11	63	3	5	35	10	13	1984	<i>Noctua pronuba</i>	
22	9	15	7	12	24	5	6	28	6	10	1985	Large Yellow Underwing	
10	1	—	0	5	19	7	2	128	7	21	1984	<i>Lacanobia oleracea</i>	
17	0	25	1	10	10	4	1	33	15	8	1985	Bright-line Brown-eye	
0	0	—	0	0	0	0	0	0	0	0	1984	<i>Euxoa nigricans</i>	
0	0	0	0	0	0	0	0	0	0	0	1985	Garden Dart	
43	54	—	17	29	130	20	9	98	69	24	1984	<i>Mesapamea secalis</i>	
18	24	13	8	25	79	5	8	47	209	10	1985	Common Rustic	
0	1	—	0	3	1	0	0	1	6	0	1984	<i>Melanchra persicariae</i>	
0	6	10	0	2	0	0	0	0	6	0	1985	Dot Moth	
1	10	—	8	7	4	14	0	29	0	1	1984	<i>Operophtera brumata</i>	
0	15	0	11	3	0	7	3	46	2	0	1985	Winter Moth	



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Pest Species	Year	Laig 456	Harris 349	Cromarty 398	Newton, Eigin 457	Beinn Eighe 350	Fort Augustus 49	Kindrogan 48	Rowardennan 97	East Craigs 261	St. Abb's 375	Brodick 446
<i>Abraxas grossulariata</i>	1984	—	—	—	1	39	0	0	0	0	—	0
Magpie Moth	1985	0	46	0	0	181	0	0	0	0	0	0
<i>Agrotis segetum</i>	1984	—	—	—	1	0	0	0	0	0	—	0
Turnip Moth	1985	0	0	0	4	0	0	0	0	0	0	0
<i>Erannis defoliaria</i>	1984	—	—	—	2	2	5	38	109	0	—	14
Mottled Umber	1985	0	0	9	3	0	1	5	200	0	—	11
<i>Phlogophora meticulosa</i>	1984	—	—	—	0	0	0	0	0	0	—	3
Angle Shades	1985	0	0	1	0	0	0	0	0	0	0	2
<i>Alsophila aescularia</i>	1984	—	—	—	15	0	12	0	42	0	—	—
March Moth	1985	0	0	53	14	0	6	0	25	0	23	1
<i>Hepialus humuli</i>	1984	—	—	—	1	0	1	0	0	0	—	0
Ghost Swift	1985	0	0	0	1	0	0	0	2	1	5	0
<i>Hepialus lupulinus</i>	1984	—	—	—	0	0	0	0	1	3	—	0
Common Swift	1985	0	0	0	0	0	0	0	1	1	3	0
<i>Agrotis ipsilon</i>	1984	—	—	—	0	0	0	0	0	0	—	0
Dark Sword-grass	1985	0	0	0	0	0	0	0	0	0	0	0
<i>Euproctis chrysorrhoea</i>	1984	—	—	—	0	0	0	0	0	0	—	0
Brown-tail	1985	0	0	0	0	0	0	0	0	0	0	0
<i>Agrotis exclamationis</i>	1984	—	—	—	22	0	5	6	0	182	—	37
Heart and Dart	1985	0	0	7	29	0	11	22	1	70	171	25
<i>Autographa gamma</i>	1984	—	—	—	1	1	0	0	1	1	—	4
Silver Y	1985	0	0	7	0	0	0	0	0	0	28	10
<i>Spodoptera exigua</i>	1984	—	—	—	0	0	0	0	0	0	—	0
Small Mottled Willow	1985	0	0	0	0	0	0	0	0	0	0	0
<i>Orthonama obstipata</i>	1984	—	—	—	0	0	0	0	0	0	—	0
The Gem	1985	0	0	0	0	0	0	0	0	0	0	0
<i>Nomophila noctuella</i>	1984	—	—	—	0	0	0	0	0	0	—	—
Rush Veneer Pearl	1985	0	0	0	0	0	0	0	0	0	0	—
<i>Plutella xylostella</i>	1984	—	—	—	12	0	0	0	0	23	—	—
Diamond-back Moth	1985	0	0	0	2	0	0	0	0	2	0	—
<i>Udea ferrugalis</i>	1984	—	—	—	0	0	0	0	0	0	—	—
Rusty-dot Pearl	1985	0	0	0	0	0	0	0	0	0	0	—

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	Low Newton-by-the-Sea	Auchincruive	Culzean Castle	Kielder	Mabie	Chester-le-Street	Forest-in-Teesdale	Windermere	Wykeham	Armside	Baldersby	Year	Pest Species
	426	293	264	296	454	39	416	323	187	453	315		
—	0	0	0	0	—	3	0	2	—	—	8	1984	<i>Abraxas grossulariata</i>
0	0	1	0	0	0	4	0	0	2	5	3	1985	Magpie Moth
—	0	0	0	—	—	0	0	0	—	—	1	1984	<i>Agrotis segetum</i>
0	2	0	0	0	0	0	0	0	5	0	9	1985	Turnip Moth
—	0	0	11	—	—	0	0	2	—	—	2	1984	<i>Erannis defoliaria</i>
1	0	2	2	—	—	0	0	3	9	2	1	1985	Mottled Umber
—	0	0	1	—	—	0	0	10	—	—	3	1984	<i>Phlogophora meticulosa</i>
4	0	1	1	2	1	0	0	10	2	5	5	1985	Angle Shades
—	0	18	1	—	—	0	0	7	—	—	13	1984	<i>Alsophila aescularia</i>
0	0	2	0	—	—	3	0	0	20	—	—	1985	March Moth
—	0	0	0	—	—	4	0	0	—	—	0	1984	<i>Hepialus humuli</i>
0	0	0	5	0	1	2	0	0	0	3	0	1985	Ghost Swift
—	7	0	0	—	—	0	0	0	—	—	2	1984	<i>Hepialus lupulinus</i>
12	3	0	0	1	0	0	0	0	0	3	2	1985	Common Swift
—	0	0	1	—	—	0	0	2	—	—	0	1984	<i>Agrotis ipsilon</i>
0	0	0	0	0	0	0	0	0	0	0	0	1985	Dark Sword-grass
—	0	0	0	—	—	0	0	0	—	—	0	1984	<i>Euproctis chryorrhoea</i>
0	0	0	0	0	0	0	0	0	0	0	0	1985	Brown-tail
—	43	20	2	—	—	33	0	408	—	—	130	1984	<i>Agrotis exclamationis</i>
72	56	38	3	440	73	2	284	86	127	481	481	1985	Heart and Dart
—	0	3	0	—	—	59	2	4	—	—	40	1984	<i>Autographa gamma</i>
31	0	3	3	4	39	0	0	0	6	28	44	1985	Silver Y
—	0	0	0	—	—	0	0	0	—	—	0	1984	<i>Spodoptera exigua</i>
0	0	0	0	0	0	0	0	0	0	0	0	1985	Small Mottled Willow
—	0	0	0	—	—	0	0	0	—	—	0	1984	<i>Orthonama obstipata</i>
0	0	0	0	0	0	0	0	0	0	0	0	1985	The Gem
—	0	0	—	—	—	0	0	0	—	—	0	1984	<i>Nomophila noctuella</i>
0	0	0	1	0	0	0	0	0	0	0	0	1985	Rush Veneer Pearl
—	10	1	—	—	—	0	0	0	—	—	12	1984	<i>Plutella xylostella</i>
0	0	0	1	6	0	0	0	0	3	0	1	1985	Diamond-back Moth
—	0	0	—	—	—	0	0	2	—	—	0	1984	<i>Udea ferrugalis</i>
0	0	0	0	0	0	0	0	0	0	0	0	1985	Rusty-dot Pearl



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Pest Species	Year	Harrogate 410	Spurn Head 131	Bangor 35	Jodrell Bank 337	Sherwood Forest 439	Gibraltar Point 223	Wells-next-the-Sea 274	Shardlow 378	Sutton Bormington 168	Terrington 381	Preston Montford 382
<i>Abraxas grossulariata</i> Magpie Moth	1984	1	1	0	—	—	—	18	2	0	1	0
	1985	1	0	0	0	0	0	0	2	1	0	0
<i>Agrotis segetum</i> Turnip Moth	1984	0	6	0	—	—	—	0	2	14	0	1
	1985	0	6	0	0	8	0	0	0	5	0	0
<i>Erannis defoliaria</i> Mottled Umber	1984	28	0	0	—	—	—	0	1	1	0	—
	1985	4	0	0	31	15	0	0	1	4	0	7
<i>Phlogophora meticulosa</i> Angle Shades	1984	0	25	1	—	—	—	5	4	7	16	0
	1985	1	25	2	0	15	8	0	7	12	14	25
<i>Alsophila aescularia</i> March Moth	1984	16	0	0	—	—	—	0	11	4	0	30
	1985	19	0	0	27	22	14	1	4	7	1	8
<i>Hepialus humuli</i> Ghost Swift	1984	0	0	0	—	—	—	0	0	3	0	2
	1985	1	0	0	2	0	0	0	1	1	0	0
<i>Hepialus lupulinus</i> Common Swift	1984	152	32	0	—	—	—	15	22	40	48	6
	1985	79	19	0	1	0	9	4	21	26	24	18
<i>Agrotis ipsilon</i> Dark Sword-grass	1984	0	0	0	—	—	—	0	0	1	0	0
	1985	0	0	0	0	0	0	0	0	0	0	0
<i>Euproctis chryorrhoea</i> Brown-tail	1984	0	0	0	—	—	—	0	0	0	0	0
	1985	0	0	0	0	0	0	0	0	0	0	0
<i>Agrotis exclamationis</i> Heart and Dart	1984	97	189	5	—	—	—	9	476	810	24	225
	1985	130	80	16	245	19	80	6	171	212	18	292
<i>Autographa gamma</i> Silver Y	1984	7	52	0	—	—	—	2	31	12	4	6
	1985	5	36	3	9	10	27	0	20	5	4	2
<i>Spodoptera exigua</i> Small Mottled Willow	1984	0	0	0	—	—	—	0	0	0	0	0
	1985	0	0	0	0	0	0	0	0	0	0	0
<i>Orthonama obstipata</i> The Gem	1984	0	0	0	—	—	—	0	0	0	0	0
	1985	0	0	0	0	0	0	0	0	0	0	0
<i>Nomophila noctuella</i> Rush Veneer pearl	1984	—	0	0	—	—	—	0	0	0	0	0
	1985	—	0	0	0	0	0	0	0	0	—	1
<i>Plutella xylostella</i> Diamond-back Moth	1984	—	0	2	—	—	—	0	37	0	0	0
	1985	—	0	0	0	0	0	0	43	0	—	11
<i>Udea ferrugalis</i> Rusty-dot Pearl	1984	—	1	0	—	—	—	0	0	0	2	0
	1985	—	0	0	0	0	0	0	0	0	—	0

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	Empingham	Compton Park	Santon Downham	Aberystwyth	Monks Wood (Ewingswode)	Broom's Barn	Tregaron	Llysdinam	Luddington	Aberporth	Cockayne Hatley	Year	Pest Species
	280	424	259	340	277	88	331	111	414	440	336		
	20	0	1	35	124	0	48	2	1	11	12	1984	<i>Abraxas grossulariata</i>
	12	0	0	10	175	1	10	2	0	5	3	1985	Magpie Moth
	1	0	1	0	2	3	0	0	1	0	6	1984	<i>Agrotis segetum</i>
	1	0	1	0	4	4	0	0	7	0	6	1985	Turnip Moth
	2	1	7	—	71	0	—	17	2	0	2	1984	<i>Erannis defoliaria</i>
	1	0	11	3	102	0	102	18	4	1	0	1985	Mottled Umber
	12	3	5	1	10	3	5	3	4	2	2	1984	<i>Phlogophora meticulosa</i>
	9	7	10	1	14	13	11	5	8	4	6	1985	Angle Shades
	7	3	18	10	41	0	112	22	6	2	7	1984	<i>Alsophila aescularia</i>
	1	2	18	4	91	6	73	24	2	4	10	1985	March Moth
	0	0	0	0	0	0	0	0	0	4	2	1984	<i>Hepialus humuli</i>
	0	2	1	0	0	0	0	2	0	4	1	1985	Ghost Swift
	107	0	5	0	50	9	0	0	3	4	0	1984	<i>Hepialus lupulinus</i>
	58	8	3	0	61	16	0	1	2	6	5	1985	Common Swift
	0	0	0	0	0	0	6	0	0	3	0	1984	<i>Agrotis ipsilon</i>
	0	0	0	0	0	0	0	0	0	0	0	1985	Dark Sword-grass
	0	0	0	0	0	0	0	0	0	0	0	1984	<i>Euproctis chryorrhoea</i>
	0	0	0	0	0	0	0	0	0	0	0	1985	Brown-tail
	150	169	25	58	11	25	425	496	128	269	35	1984	<i>Agrotis exclamationis</i>
	95	94	12	277	20	29	699	319	87	1806	46	1985	Heart and Dart
	53	16	30	6	18	5	11	9	4	8	15	1984	<i>Autographa gamma</i>
	40	16	30	15	18	5	35	24	0	17	16	1985	Silver Y
	0	0	0	0	0	0	0	0	0	0	0	1984	<i>Spodoptera exigua</i>
	0	0	0	0	0	0	0	0	0	0	0	1985	Small Mottled Willow
	0	0	0	0	0	0	0	0	0	0	0	1984	<i>Orthonama obstipata</i>
	0	0	0	0	0	0	0	0	0	0	0	1985	The Gem
	0	0	0	—	0	1	—	—	0	—	0	1984	<i>Nomophila noctuella</i>
	0	0	0	—	0	0	—	—	0	—	0	1985	Rush Veneer Pearl
	7	0	0	—	1	1	—	—	7	—	23	1984	<i>Plutella xylostella</i>
	4	0	0	—	0	23	—	—	3	—	24	1985	Diamond-back Moth
	0	0	1	—	0	2	—	—	0	—	1	1984	<i>Udea ferrugalis</i>
	0	0	0	—	0	0	—	—	0	—	0	1985	Rusty-dot Pearl



ROTHAMSTED REPORT FOR 1986, PART 2

TABLE

The Rothamsted Insect Survey—Light Traps: annual records

Pest Species	Year	Hereford	Rhandirmwyn	Houghton Regis	Eaton Bray	Rothamsted (Barnfield)	Rothamsted (Allotments)	Rothamsted (Geescroft)	Writtle	Westonbirt	Hurley	Cardiff
		212	346	452	412	1	34	22	87	292	180	347
<i>Abraxas grossulariata</i> Magpie Moth	1984	3	4	—	—	5	0	43	9	8	0	0
	1985	18	2	1	67	3	0	28	7	1	0	0
<i>Agrotis segetum</i> Turnip Moth	1984	0	0	—	—	2	0	2	3	1	0	0
	1985	0	1	1	3	2	0	3	0	0	0	0
<i>Erannis defoliaria</i> Mottled Umber	1984	3	58	—	—	0	0	76	4	56	0	0
	1985	2	46	0	1	0	0	64	0	42	0	0
<i>Phlogophora meticulosa</i> Angle Shades	1984	0	7	—	—	2	2	17	3	4	3	3
	1985	21	13	0	2	15	0	20	6	13	2	2
<i>Alsophila aescularia</i> March Moth	1984	17	8	—	—	0	1	19	12	16	19	0
	1985	4	7	0	6	3	0	24	17	8	2	0
<i>Hepialus humuli</i> Ghost Swift	1984	0	0	—	—	2	4	12	0	1	0	0
	1985	0	0	0	2	0	0	1	0	1	0	0
<i>Hepialus lupulinus</i> Common Swift	1984	0	0	—	—	36	6	16	20	9	28	31
	1985	0	0	41	90	74	10	12	38	30	104	24
<i>Agrotis ipsilon</i> Dark Sword-grass	1984	0	1	—	—	0	0	1	0	1	0	0
	1985	0	0	0	0	0	0	0	0	0	0	0
<i>Euproctis chryorrhoea</i> Brown-tail	1984	0	0	—	—	0	0	0	2	0	1	0
	1985	0	0	0	0	0	0	0	4	0	0	0
<i>Agrotis exclamationis</i> Heart and Dart	1984	210	144	—	—	168	35	142	147	104	82	40
	1985	130	133	104	91	90	21	39	108	97	18	13
<i>Autographa gamma</i> Silver Y	1984	2	25	—	—	11	1	10	16	17	1	24
	1985	1	60	80	10	14	7	13	19	34	0	45
<i>Spodoptera exigua</i> Small Mottled Willow	1984	0	0	—	—	0	0	0	0	0	0	0
	1985	0	0	0	0	0	0	0	0	0	0	0
<i>Orthonama obstipata</i> The Gem	1984	0	0	—	—	0	0	0	0	0	0	0
	1985	0	0	0	0	0	0	0	0	0	0	0
<i>Nomophila noctuella</i> Rush Veneer Pearl	1984	0	0	—	—	0	0	0	0	0	0	0
	1985	0	0	0	0	0	1	0	0	0	1	0
<i>Plutella xylostella</i> Diamond-back Moth	1984	2	0	—	—	24	11	0	0	0	5	11
	1985	79	1	1	0	23	46	0	0	0	1	8
<i>Udea ferrugalis</i> Rusty-dot Pearl	1984	0	4	—	—	0	1	1	0	0	1	1
	1985	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 1984 and 1985

	370	289	451	46	219	379	368	149	266	114	252	Year	Pest Species
	Sheppey	Wisley	Perry Woods	Alice Holt	Haslemere	Winchester	Denny Lodge	Starcross	Yarner Wood	Rosewarne	Guernsey		
5	0	—	0	0	37	0	5	2	4	23	1984	<i>Abraxas grossulariata</i>	
1	0	3	0	0	19	0	9	3	4	7	1985	Magpie Moth	
1	1	—	0	1	0	0	0	0	0	3	1984	<i>Agrotis segetum</i>	
0	4	4	2	2	2	0	1	0	1	4	1985	Turnip Moth	
0	16	—	14	4	0	48	1	31	0	0	1984	<i>Erannis defoliaria</i>	
0	14	0	7	2	0	32	0	25	0	0	1985	Mottled Umber	
3	3	—	1	0	0	1	0	3	1	0	1984	<i>Phlogophora meticulosa</i>	
3	4	17	3	2	2	0	1	18	3	0	1985	Angle Shades	
1	14	—	15	7	3	15	3	34	2	0	1984	<i>Alsophila aescularia</i>	
0	13	—	8	4	0	0	0	24	3	0	1985	March Moth	
0	0	—	2	0	0	0	3	0	1	0	1984	<i>Hepialus humuli</i>	
0	1	2	1	0	1	0	1	1	2	0	1985	Ghost Swift	
11	4	—	7	5	27	2	1	2	3	0	1984	<i>Hepialus lupulinus</i>	
11	5	136	7	0	32	1	0	0	3	0	1985	Common Swift	
0	0	—	0	0	0	0	0	2	2	1	1984	<i>Agrotis ipsilon</i>	
0	0	0	0	0	0	0	0	1	1	0	1985	Dark Sword-grass	
7	1	—	0	0	2	13	0	0	0	2	1984	<i>Euproctis chrysorrhoea</i>	
11	0	0	1	0	5	3	0	0	0	5	1985	Brown-tail	
63	59	—	56	48	83	41	98	242	651	30	1984	<i>Agrotis exclamationis</i>	
22	29	30	27	61	60	13	221	277	789	33	1985	Heart and Dart	
42	7	—	22	8	21	3	15	43	37	17	1984	<i>Autographa gamma</i>	
37	29	23	15	10	11	3	5	32	28	3	1985	Silver Y	
0	0	—	0	0	0	1	0	0	0	0	1984	<i>Spodoptera exigua</i>	
0	0	0	0	0	0	0	1	0	0	0	1985	Small Mottled Willow	
0	0	—	0	0	0	0	1	1	0	0	1984	<i>Orthonama obstipata</i>	
0	0	0	0	0	0	0	0	1	0	0	1985	The Gem	
0	0	—	0	0	0	—	1	—	3	7	1984	<i>Nomophila noctuella</i>	
0	1	1	1	0	0	—	6	—	17	1	1985	Rush Veneer Pearl	
20	41	—	6	0	0	—	11	—	323	74	1984	<i>Plutella xylostella</i>	
59	50	22	16	2	0	—	6	—	68	18	1985	Diamond-back Moth	
0	14	—	3	0	0	—	1	—	20	46	1984	<i>Udea ferrugalis</i>	
0	4	1	0	0	0	—	1	—	0	2	1985	Rusty-dot Pearl	