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Rothamsted Experimental Station Report for 1970 Part 2



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Rothamsted Insect Survey

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Rothamsted Insect Survey

L. R. TAYLOR and R. A. FRENCH

Suction traps

New traps operated, in England, at N.A.A.S. South-West Region Sub-Centre, Starcross, near Exmouth, Devon; at the University of Bristol, Research Station, Long Ashton, near Bristol; at the Building Research Station, Garston, Watford, Hertfordshire; in Scotland, at the North of Scotland College of Agriculture Experimental Farm, Aldrouthy, near Elgin, Inverness-shire.

Weekly bulletins listing catches of 31 aphid species, or groups of species, from 13 traps were issued from 4 May to 8 November. The list of species was revised slightly from last season; *Aphis fabae* group was retained but other *Aphis* spp. were grouped together because of uncertainty in their separation; *Pentatrachopus fragaefolii* was omitted because it was rarely caught. From 25 June to 5 August the volume of air sampled by the traps at Wye, Silwood Park, Long Ashton, Rothamsted and Brooms Barn was halved and from 1 October to 28 October it was halved on all traps. This eased the heavy sorting and identifying during these peak periods and helped the bulletin to be issued on time. Tables 1a-g have been adjusted to give the expected catch in a standard sample of air.

Because of the warm spring weather aphid populations developed rapidly and migration reached its first peak one to two weeks earlier than in previous years but did not exceed previous years' totals.

The original trap at Rothamsted was replaced at the beginning of this season and the trap at Dundee will need replacing before next season; that at High Mowthorpe requires repair. The fans and motors can be used again. The life expectancy of the earlier traps is thus five to six years but it is hoped that improvements made since will result in traps lasting ten years.

The West-East transect has not yet been expanded beyond Zeeland (Holland). The only immediate further extension of the survey envisaged for purely experimental purposes is to offshore islands, but some increase in the centre of England may be warranted by both the need for replication and the demand for traps in regions where N.A.A.S. officers can most effectively assess their advisory value. It is expected that as last year, traps will have detected the first immigrants into cereals before they were found by crop sampling.

Table 1a-g lists the same 31 taxa as those in the weekly bulletins in the same four-week standard periods as in 1969. The Garston and Aldrouthy traps are not included because they did not operate for a complete season. Traps are arranged in a north to south sequence; blanks in the table are zero catches; there are no missing records.

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Light traps

Tables 2a–d give total annual catches for 31 species of nocturnal Lepidoptera, including some known migrants and species of economic importance. The 60 sites that completed the 1969 year are arranged in north to south sequence; dashes indicate missing records from traps not operating in 1968 and for those sites from which the Microlepidoptera are not identified. We are again deeply indebted to the many voluntary workers who operate traps and identify catches during their spare time.

TABLE 2 *The Rothamsted Insect Survey—Light Traps* is on pages 246–253.

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TABLE 1(a)

The Rothamsted Insect Survey—Suction Traps: 4-weekly total catches of aphids of economic interest reported in the Weekly Bulletin

Week Nos 17–20: 23 April–20 May

Species	Dundee	Edinburgh	Newcastle	High Mowthorpe	Aberystwyth	Brooms Barn	Rothamsted Tower	Long Ashton	Silwood Park	Zeeland	Wye, Kent	Starcross	Rosewarne
<i>Acyrtosiphon pisum</i>								2	3	2	1		
<i>Aphis fabae</i>									1				
<i>Aphis</i> spp.													
<i>Amphorophora</i> spp.													
<i>Aulacorthum solani</i>								2				1	1
<i>Brachycaudus helichrysi</i>								1	1			2	6
<i>Brevicoryne brassicae</i>													
<i>Cavariella aegopodii</i>									1			1	
<i>Cinara</i> spp.						1							
<i>Drepanosiphum platanoidis</i>				2	157	871	113	588	1292		389	56	
<i>Dysaphis plantaginea</i>													
<i>Elatobium abietinum</i>					5			4	3		1	1	4
<i>Eriosoma ulmi</i>													
<i>Hyalopterus pruni</i>													
<i>Hyperomyzus lactucae</i>									2				
<i>Macrosiphum euphorbiae</i>								1	1			1	
<i>Megoura viciae</i>													
<i>Metapolophium dirhodum</i>								2	2	2	1	1	
<i>Metapolophium festucae</i>						1		40	1			1	1
<i>Myzus ascalonicus</i>			1			13	9	18	9	3	3	5	9
<i>Myzus ornatus</i>					1			4	2			1	1
<i>Myzus persicae</i>						1		2	1			2	
<i>Nasonovia ribis nigri</i>								4	4			2	
<i>Pemphigus</i> spp. }													
<i>Prociphilines</i> }													
<i>Phyllaphis fagi</i>						2	1		1				
<i>Phorodon humuli</i>													
<i>Rhopalosiphum insertum</i>													1
<i>Rhopalosiphum maidis</i>													
<i>Rhopalosiphum padi</i>					1	3		1	5			3	
<i>Sitobion avenae</i>								2	2			1	2
<i>Sitobion fragariae</i>					1			1	1			2	
First aphid caught			May 19	May 18	May 12	May 10	May 8	May 7	May 4	May 7	May 9	May 5	May 7

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TABLE 1(b)

The Rothamsted Insect Survey—Suction Traps: 4-weekly total catches of aphids of economic interest reported in the Weekly Bulletin

Week Nos 21–24: 21 May–17 June

Species	Dundee	Edinburgh	Newcastle	High Mowthorpe	Aberystwyth	Brooms Barn	Rothamsted Tower	Long Ashton	Silwood Park	Zeeland	Wye, Kent	Starcross	Rosewarne
<i>Acyrtosiphon pisum</i>	1			4	17	30	53	17	21	30	9	8	2
<i>Aphis fabae</i>		1		2	1		1	15	11		20	6	4
<i>Aphis</i> spp.	1				6	4	12	63	55	1	31	10	2
<i>Amphorophora</i> spp.					3		1	19	3		12	1	2
<i>Aulacorthum solani</i>					10	2		14	2		1	5	32
<i>Brachycaudus helichrysi</i>	7	10	3	25	1914	105	145	986	306	8	435	226	934
<i>Brevicoryne brassicae</i>						49	6		2	1		9	3
<i>Cavariella aegopodii</i>		6	1	7	50	16	10	168	52	44	34	34	24
<i>Cinara</i> spp.					1			5	4	1	3		1
<i>Drepanosiphum platanoidis</i>	417	893	720	5310	1804	672	1571	160	1255	1	448	160	7
<i>Dysaphis plantaginea</i>						3	2	13	24				8
<i>Elatobium abietinum</i>	4	3	12	2	294	2	6	10	44		64	11	2
<i>Eriosoma ulmi</i>		1		1	19	259	192	237	396	87	103	8	
<i>Hyalopterus pruni</i>	4				13	2	8	47	60	8	7	14	4
<i>Hyperomyzus lactucae</i>	2	10		1	27	8	6	74	29		36	5	5
<i>Macrosiphum euphorbiae</i>	1	2			8	1	4	24	17	1	9	14	7
<i>Megoura viciae</i>								5	2		4		
<i>Metapolophium dirhodum</i>	1	1			4		8	37	46	1	8	33	12
<i>Metapolophium festucae</i>		1			14	2	3	57	27		7	18	48
<i>Myzus ascalonicus</i>	2	39	3	13	16	48	262	45	47	3	62	18	19
<i>Myzus ornatus</i>							1	5	1		1	2	1
<i>Myzus persicae</i>					3	2	1	21	10	2	3	7	4
<i>Nasonovia ribis nigri</i>	1	2		1		3	10	20	13	2	7	4	
<i>Pemphigus</i> spp. } <i>Prociphilines</i> }						1	4	3	96			2	1
<i>Phyllaphis fagi</i>			1	6	1	15	5	31	43	10	17	5	9
<i>Phorodon humuli</i>		1		1	144	47	16	144	118	3	353	3	2
<i>Rhopalosiphum insertum</i>	8	10	10	37	1	19	13	19	12	30	18	2	16
<i>Rhopalosiphum maidis</i>						1							2
<i>Rhopalosiphum padi</i>	131	159	217	545	298	340	578	227	190	12	232	27	82
<i>Sitobion avenae</i>					3	3	7	83	93	2	19	72	18
<i>Sitobion fragariae</i>		2		1	8	1	2	68	25	1	25	43	32
First aphid caught	May 22	May 23											

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TABLE 1(c)

The Rothamsted Insect Survey—Suction Traps: 4-weekly total catches of aphids of economic interest reported in the Weekly Bulletin

Week Nos 25–28: 18 June–15 July

Species	Sites												
	Dundee	Edinburgh	Newcastle	High Mowthorpe	Aberystwyth	Brooms Barn	Rothamsted Tower	Long Ashton	Silwood Park	Zealand	Wye, Kent	Starcross	Rosewarne
<i>Acyrtosiphon pisum</i>	1	2	2	10	5	128	16	3	13	36	97	8	1
<i>Aphis fabae</i>	1	4	4	12	2	18	16	16	11	66	257	31	4
<i>Aphis</i> spp.	1	3	1	8	2	4	14	12	19	29	162	7	5
<i>Amphorophora</i> spp.					1						4		
<i>Aulacorthum solani</i>					1	8	1		1	1	1		5
<i>Brachycaudus helichrysi</i>	5	5	2	39	150	148	5	15	11	64	100	14	32
<i>Brevicoryne brassicae</i>				1		330	13		5	14	4	19	3
<i>Cavariella aegopodii</i>	4	20	7	23	7	7	3	40	12	250	16	4	2
<i>Cinara</i> spp.								4		1	1	2	
<i>Drepanosiphum platanoidis</i>	166	353	45	418	12	27	109	12	34	2	72	6	4
<i>Dysaphis plantaginea</i>						3	2	1	4	13	3	2	
<i>Elatobium abietinum</i>					3								
<i>Eriosoma ulmi</i>	58	99	17	30	10	411	116	53	33	83	83	4	2
<i>Hyalopterus pruni</i>	7	3	14	33	18	124	73	108	26	152	184	35	13
<i>Hyperomyzus lactucae</i>	4	1		2	8	3	11	8	7	30	60	8	6
<i>Macrosiphum euphorbiae</i>					1	10	4	10	8	2	30	48	1
<i>Megoura viciae</i>	1	1			3				4		3		2
<i>Metapolophium dirhodum</i>	18	55	9	78	3	1058	885	26	233	1181	1508	405	49
<i>Metapolophium festucae</i>		7	2	15	4	4	4	3	7	8	9	5	3
<i>Myzus ascalonicus</i>			2			3				1	4	1	
<i>Myzus ornatus</i>		1								1			
<i>Myzus persicae</i>				2	5	28	2	5	7	186	80	6	7
<i>Nasonovia ribis nigri</i>		2		2	5	4		7	3	3	6	4	2
<i>Pemphigus</i> spp. } <i>Prociphilines</i> }	3	4	8	15	6	67	68	63	77	130	63	9	
<i>Phyllaphis fagi</i>	2	9	18	12	8	3		2	3	4	16	3	
<i>Phorodon humuli</i>	6	1	1	5	5	22	2	27	6	8	182	1	1
<i>Rhopalosiphum insertum</i>	16	9	18	189	11	34	13	13	4	50	21	5	1
<i>Rhopalosiphum maidis</i>		1	4		18	2		4	4	2	7	16	6
<i>Rhopalosiphum padi</i>	25	19	97	166	14	453	73	1	38	1086	325	56	39
<i>Sitobion avenae</i>	4	4	4	15	29	182	267	111	515	322	607	454	42
<i>Sitobion fragariae</i>		1			4	16		1	22	11	48	14	4

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TABLE 1(d)

The Rothamsted Insect Survey—Suction Traps: 4-weekly total catches of aphids of economic interest reported in the Weekly Bulletin

Week Nos 29–32: 16 July–12 August

Species	Sites												
	Dundee	Edinburgh	Newcastle	High Mowthorpe	Aberystwyth	Brooms Barn	Rothamsted Tower	Long Ashton	Silwood Park	Zeeland	Wye, Kent	Starcross	Rosewarne
<i>Acyrtosiphon pisum</i>	21	8	3	23	6	414	266	2	19	1	99		
<i>Aphis fabae</i>	823	62	29	1135	120	1657	1090	67	189	882	589	22	8
<i>Aphis</i> spp.	24	84	5	156	46	244	131	30	51	182	130	6	3
<i>Amphorophora</i> spp.	3												
<i>Aulacorthum solani</i>					1			2			2		
<i>Brachycaudus helichrysi</i>	35	39	4	22	56	161	22	4	4	11	12	5	1
<i>Brevicoryne brassicae</i>				6		2869	235	4	204	16	38	29	4
<i>Cavariella aegopodii</i>	20	15	6	8	1	35	7		3	32	10		1
<i>Cinara</i> spp.		2					1	4		1			
<i>Drepanosiphum platanoidis</i>	37	94	34	122	41	64	46	19	85	1	14	17	7
<i>Dysaphis plantaginea</i>						6							1
<i>Elatobium abietinum</i>													
<i>Eriosoma ulmi</i>		4	2	1		14	6	2	2	1	8	1	
<i>Hyalopterus pruni</i>	8	8	3	9	9	143	72	77	24	129	298	28	7
<i>Hyperomyzus lactucae</i>	12	1	3	7	4	24	20			12	4	1	
<i>Macrosiphum euphorbiae</i>	37	35	8	2	5	26	16	3	6	28	50	6	
<i>Megoura viciae</i>										1	4	1	
<i>Metapolophium dirhodum</i>	1299	2036	353	599	13	1827	2303	4	206	513	1212	29	11
<i>Metapolophium festucae</i>	7	23	1	2		16	8			1	10		
<i>Myzus ascalonicus</i>		1											
<i>Myzus ornatus</i>							1						
<i>Myzus persicae</i>	114	10	10	44	8	445	65	6	12	1640	141	4	1
<i>Nasonovia ribis nigri</i>		2	1	2		4	6			1	8		1
<i>Pemphigus</i> spp. }	18	11	6	11	9	162	25	10	12	27	47	6	8
<i>Prociphilines</i>													
<i>Phyllaphis fagi</i>													
<i>Phorodon humuli</i>	1					1				1	10		
<i>Rhopalosiphum insertum</i>	455	440	375	283	28	60	60	6	92	186	77	16	10
<i>Rhopalosiphum maidis</i>	4		1		21	5	8		2	8	3	3	3
<i>Rhopalosiphum padi</i>	3375	2601	1034	1040	80	3537	447	72	90	2541	1028	265	74
<i>Sitobion avenae</i>	141	124	176	1042	241	2694	2186	494	1611	820	1492	205	61
<i>Sitobion fragariae</i>	9	27		3	8	10	6		2	5	10	3	2

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TABLE 1(e)

The Rothamsted Insect Survey—Suction Traps: 4-weekly total catches of aphids of economic interest reported in the Weekly Bulletin

Week Nos 33–36: 13 August–9 September

Species	Dundee	Edinburgh	Newcastle	High Mowthorpe	Aberystwyth	Brooms Barn	Rothamsted Tower	Long Ashton	Silwood Park	Zealand	Wye, Kent	Starcross	Rosewarne
<i>Acyrtosiphon pisum</i>	5	2		3	2								
<i>Aphis fabae</i>	609	137	29	253	13	40	23	5	8		1	1	1
<i>Aphis</i> spp.	28	52	4	40	2	8	1	14	13		5		1
<i>Amphorophora</i> spp.	2												
<i>Aulacorthum solani</i>		1											
<i>Brachycaudus helichrysi</i>	15	19	3	1	9	9	4	7	3		7	8	1
<i>Brevicoryne brassicae</i>				6	3	64	7		37	1	2	3	
<i>Cavariella aegopodii</i>	18	3				1			2				1
<i>Cinara</i> spp.													
<i>Drepanosiphum platanoidis</i>	97	52	5	51	119	177	66	28	230		26	25	10
<i>Dysaphis plantaginea</i>						1	1		3			2	
<i>Elatobium abietinum</i>									1				
<i>Eriosoma ulmi</i>						2							
<i>Hyalopterus pruni</i>	8	5	2	1	1	18	6	3	14	39	20	5	1
<i>Hyperomyzus lactucae</i>				1									
<i>Macrosiphum euphorbiae</i>	15	12	2		2								
<i>Megoura viciae</i>	28	46	3	2									
<i>Metapolophium dirhodum</i>		2											
<i>Metapolophium festucae</i>													
<i>Myzus ascalonicus</i>													
<i>Myzus ornatus</i>													
<i>Myzus persicae</i>	86	12	2	2	2	2			1	11	3	4	1
<i>Nasonovia ribis nigri</i>		1		1					2				
<i>Pemphigus</i> spp. }	43	36	45	7	6	13	24	18	59	6	9	6	3
<i>Prociphilines</i>	1	1											
<i>Phyllaphis fagi</i>													
<i>Phorodon humuli</i>											2		
<i>Rhopalosiphum insertum</i>	127	69	59	23	13	3			41	11	2	5	1
<i>Rhopalosiphum maidis</i>	7	1			4	4							
<i>Rhopalosiphum padi</i>	1978	1268	184	205	26	34	5	11	15	33	27	34	4
<i>Sitobion avenae</i>	258	74	21	50	8	23	4	7	13	2	6	3	10
<i>Sitobion fragariae</i>		6		1				1					

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TABLE 1(f)

The Rothamsted Insect Survey—Suction Traps: 4-weekly total catches of aphids of economic interest reported in the Weekly Bulletin

Week Nos 37–40: 10 September–7 October

Species	Sites												
	Dundee	Edinburgh	Newcastle	High Mowthorpe	Aberystwyth	Brooms Barn	Rothamsted Tower	Long Ashton	Silwood Park	Zeeland	Wye, Kent	Starcross	Rosewarne
<i>Acyrtosiphon pisum</i>					4			2	2				1
<i>Aphis fabae</i>	25	70	11	4	61	5		3	6	3	6		8
<i>Aphis</i> spp.	19	29	4	2	22	5	7	19	25	2	12	6	2
<i>Amphorophora</i> spp.													
<i>Aulacorthum solani</i>													
<i>Brachycaudus helichrysi</i>	17	46	7	24	79	46	51	30	51		15	30	14
<i>Brevicoryne brassicae</i>			2	8	2	1	1	2	5		32	1	
<i>Cavariella aegopodii</i>	3	1		1	6	10		6	2		2		2
<i>Cinara</i> spp.		2					1		2				
<i>Drepanosiphum platanoidis</i>	295	150	28	143	72	32	33	30	126	4	19	20	30
<i>Dysaphis plantaginea</i>	1	1		3	59	2	20	36	178	1	22	33	1
<i>Elatobium abietinum</i>													
<i>Eriosoma ulmi</i>					2	1				4			
<i>Hyalopterus pruni</i>	11	1	4	3		12	2	8	12	46	27	8	
<i>Hyperomyzus lactucae</i>	1	1				2	2	4	1	2	4	10	1
<i>Macrosiphum euphorbiae</i>					1				1	1			
<i>Megoura viciae</i>													
<i>Metapolophium dirhodum</i>		1			3			7		1		2	
<i>Metapolophium festucae</i>												2	
<i>Myzus ascalonicus</i>	1											1	
<i>Myzus ornatus</i>								2	2				
<i>Myzus persicae</i>	6	1		1	14	1	3	7	2	4	27	15	2
<i>Nasonovia ribis nigri</i>					8			2	4			2	
<i>Pemphigus</i> spp.													
<i>Prociphilines</i>	154	646	89	59	162	319	90	108	101	25	69	44	17
<i>Phyllaphis fagi</i>		3							1				
<i>Phorodon humuli</i>									7	1	62		
<i>Rhopalosiphum insertum</i>	1229	1643	553	105	3282	6	49	111	137	16	28	375	190
<i>Rhopalosiphum maidis</i>	1	1	1		3			6			4	6	1
<i>Rhopalosiphum padi</i>	3628	6761	514	399	7213	1182	942	4703	4100	388	5010	1984	283
<i>Sitobion avenae</i>		4			8			1	1		4	2	1
<i>Sitobion fragariae</i>		1	1		6							3	

ROTHAMSTED INSECT SURVEY

TABLE 1(g)

The Rothamsted Insect Survey—Suction Traps: 4-weekly total catches of aphids of economic interest reported in the Weekly Bulletin

Week Nos 41–44: 8 October–4 November

Sites	Dundee	Edinburgh	Newcastle	High Mowthorpe	Aberystwyth	Brooms Barn	Rothamsted Tower	Long Ashton	Silwood Park	Zeeland	Wye, Kent	Starcross	Rosewarne
<i>Acyrtosiphon pisum</i>		2			12	10	4	2	2	24	4	4	6
<i>Aphis fabae</i>			2	2	4	5	6	23	15		29	8	
<i>Aphis</i> spp.									28				
<i>Amphorophora</i> spp.					12	2					1	2	
<i>Aulacorthum solani</i>		18	4	16		8	10	3	12	2	10	5	2
<i>Brachycaudus helichrysi</i>				2		2			4		10	2	1
<i>Brevicoryne brassicae</i>					2	14	7	6	8	1	5		
<i>Cavariella aegopodii</i>	2	2							2				
<i>Cinara</i> spp.													
<i>Drepanosiphum platanoidis</i>	106	136	80	64	53	44	41	48	60	7	40	17	22
<i>Dysaphis plantaginea</i>			2	1	8	8	32	24	108		158	36	10
<i>Elatobium abietinum</i>													
<i>Eriosoma ulmi</i>				2	2		2			4			1
<i>Hyalopterus pruni</i>				2		4	2		8	4			
<i>Hyperomyzus lactucae</i>				2	4	18	2	16	14	21	14	33	5
<i>Macrosiphum euphorbiae</i>										1	2		
<i>Megoura viciae</i>													
<i>Metapolophium dirhodum</i>	1	8	6		10			6	6	1	8		
<i>Metapolophium festucae</i>					2			1	2				
<i>Myzus ascalonicus</i>	2									1	4	1	
<i>Myzus ornatus</i>												2	
<i>Myzus persicae</i>	6	4		2	24	10	8	8	17	31	97	21	7
<i>Nasonovia ribis nigri</i>				4	12	4	4		2	1	6	1	3
<i>Pemphigus</i> spp.	102	162	150	40	20	358	168	435	250	24	232	119	6
<i>Prociphilines</i>													
<i>Phyllaphis fagi</i>	4	10						1	4				
<i>Phorodon humuli</i>								2	13		12	1	
<i>Rhopalosiphum insertum</i>	704	1360	1832	94	2238	132	200	259	459	77	362	338	294
<i>Rhopalosiphum maidis</i>		4		4	4	18		2			2	6	
<i>Rhopalosiphum padi</i>	1439	3438	1490	308	5661	1093	1916	10272	3136	1127	5596	3202	585
<i>Sitobion avenae</i>			2					6	10	1	4	10	1
<i>Sitobion fragariae</i>	2	4			67			41	12		2	15	16

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TABLE
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Pest Species	Year	59 Morangie	57 Ardross	58 Newton, Elgin	50 Grula, Skye	49 Fort Augustus	83 Killiecrankie (Pass)	29 Rannoch	60 Aros	48 Kindrogan	47 Dundee	82 Dunblane	97 Rowardennan	98 Auchencruive	39 Chester le Street	108 Egremont	72 Castletown, I.O.M.
<i>Gortyna micacea</i>	1968	—	297	104	—	82	—	145	228	—	32	97	3	18	4	—	64
Rosy Rustic	1969	226	286	124	135	96	21	79	64	238	—	6	138	1	17	5	36
<i>Bupalus piniaria</i>	1968	—	0	2	—	6	—	0	0	—	0	0	0	0	0	—	0
Bordered White	1969	0	0	6	0	6	0	0	0	0	0	2	0	0	0	0	0
<i>Panolis flammea</i>	1968	—	0	5	—	9	—	4	0	—	0	0	0	0	0	—	0
Pine Beauty	1969	0	0	1	1	5	0	1	0	0	0	0	0	0	0	0	0
<i>Cerapteryx graminis</i>	1968	—	13	29	—	194	—	78	342	—	9	35	79	13	0	—	7
Antler Moth	1969	51	29	47	268	317	21	121	676	240	34	336	147	31	0	8	1
<i>Erannis aurantiaria</i>	1968	—	32	3	—	103	—	146	2	—	0	0	17	0	0	—	0
Scarce Umber	1969	0	21	6	0	28	87	1	0	72	0	0	11	0	0	0	0
<i>Operophtera fagata</i>	1968	—	6	5	—	16	—	136	0	—	1	0	22	0	0	—	0
Northern Winter Moth	1969	0	0	0	0	0	8	8	0	0	0	0	8	0	0	0	0
<i>Apamea sordens</i>	1968	—	1	0	—	3	—	0	0	—	3	3	0	1	7	—	0
Rustic Shoulder-knot	1969	0	1	2	2	0	3	0	0	0	1	5	0	7	13	2	8
<i>Gortyna flavago</i>	1968	—	0	4	—	0	—	0	0	—	2	0	0	0	0	—	0
Frosted Orange	1969	0	0	2	0	0	9	0	0	1	2	0	0	0	0	2	0
<i>Mamestra brassicae</i>	1968	—	0	0	—	0	—	0	0	—	8	5	0	0	19	—	0
Cabbage Moth	1969	0	0	0	1	0	0	0	0	0	6	4	0	0	8	5	0
<i>Noctua pronuba</i>	1968	—	4	20	—	4	—	0	5	—	14	24	10	12	8	—	38
Large Yellow Underwing	1969	17	1	23	15	2	1	0	7	10	31	44	18	18	14	4	31
<i>Diataraxia oleracea</i>	1968	—	0	13	—	0	—	0	8	—	2	2	0	6	4	—	18
Bright-line Brown-eye	1969	6	3	11	15	0	0	0	6	0	0	3	0	5	4	11	24
<i>Euxoa nigricans</i>	1968	—	0	1	—	0	—	4	0	—	1	1	0	0	3	—	0
Garden Dart	1969	0	0	0	1	0	0	0	0	0	3	3	0	0	0	0	0
<i>Apamea secalis</i>	1968	—	0	100	—	22	—	0	15	—	21	40	1	68	18	—	66
Common Rustic	1969	3	10	58	110	3	3	0	33	1	19	85	1	60	12	33	55
<i>Melanchra persicariae</i>	1968	—	0	0	—	0	—	0	0	—	0	0	0	0	0	—	0
Dot Moth	1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Operophtera brumata</i>	1968	—	52	10	—	28	—	15	12	—	3	2	97	1	0	—	1
Winter Moth	1969	0	22	4	2	6	2	1	7	12	0	1	75	0	0	0	2

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records of the moths of economic interest (1968 and 1969)

	45 Malham Tarn	40 Lancaster	68 Harrogate	101 Keighley	96 Riseholme	95 Gibraltar Point	35 Bangor	71 Rhyd y Creuau	77 Maentwrog	79 Shardlow	61 Sutton Bonington	117 Burton upon Trent	53 Preston Montford	119 Darlaston	112 Shirley	Year	Pest Species
	0	7	44	—	—	—	0	—	7	30	3	—	—	—	—	1968	<i>Gortyna micacea</i>
	4	5	23	52	16	109	0	42	10	24	7	23	18	0	0	1969	Rosy Rustic
	0	0	0	—	—	—	0	—	0	0	0	—	—	—	—	1968	<i>Bupalus piniaria</i>
	0	0	0	0	0	0	3	1	0	0	1	0	0	0	0	1969	Bordered White
	0	0	0	—	—	—	0	—	0	0	0	—	—	—	—	1968	<i>Panolis flammea</i>
	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1969	Pine Beauty
	24	1	0	—	—	—	5	—	48	6	0	—	—	—	—	1968	<i>Cerapteryx graminis</i>
	159	0	1	8	2	14	0	26	63	6	0	7	2	0	0	1969	Antler Moth
	48	0	3	—	—	—	1	—	87	0	1	—	—	—	—	1968	<i>Erannis aurantiaria</i>
	16	0	4	0	0	0	0	0	93	0	0	0	0	0	0	1969	Scarce Umber
	18	0	0	—	—	—	0	—	105	0	0	—	—	—	—	1968	<i>Operophtera fagata</i>
	3	0	0	1	0	0	0	0	62	0	0	0	0	0	0	1969	Northern Winter Moth
	1	2	1	—	—	—	0	—	0	8	2	—	—	—	—	1968	<i>Apamea sordens</i>
	3	0	0	0	5	18	2	0	0	0	1	0	0	13	0	1969	Rustic Shoulder-knot
	0	1	2	—	—	—	0	—	0	0	2	—	—	—	—	1968	<i>Gortyna flavago</i>
	0	0	3	0	1	12	0	2	0	9	1	3	2	0	0	1969	Frosted Orange
	0	2	2	—	—	—	29	—	0	5	2	—	—	—	—	1968	<i>Mamestra brassicae</i>
	0	0	4	2	4	1	8	0	1	1	0	6	0	1	0	1969	Cabbage Moth
	6	13	17	—	—	—	46	—	7	41	26	—	—	—	—	1968	<i>Noctua pronuba</i>
	9	0	14	21	6	7	16	22	5	6	5	15	10	4	7	1969	Large Yellow Underwing
	0	5	4	—	—	—	4	—	1	13	31	—	—	—	—	1968	<i>Diataraxia oleracea</i>
	0	0	4	2	50	65	6	4	8	14	28	61	2	67	0	1969	Bright-line Brown-eye
	0	0	0	—	—	—	0	—	0	0	0	—	—	—	—	1968	<i>Euxoa nigricans</i>
	0	0	0	0	0	1	0	0	0	4	0	0	0	0	0	1969	Garden Dart
	0	27	31	—	—	—	44	—	2	191	162	—	—	—	—	1968	<i>Apamea secalis</i>
	0	0	42	8	69	33	14	57	2	15	181	56	113	30	10	1969	Common Rustic
	0	0	1	—	—	—	0	—	3	11	8	—	—	—	—	1968	<i>Melanchra persicariae</i>
	0	0	3	1	8	8	0	6	9	15	15	13	1	10	13	1969	Dot Moth
	68	0	2	—	—	—	0	—	78	2	4	—	—	—	—	1968	<i>Operophtera brumata</i>
	18	0	14	1	1	0	0	0	49	0	5	1	2	0	0	1969	Winter Moth

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Pest Species	Year	109 Holme Fen	126 Aberystwyth	94 Monks Wood	23 St. Ives	88 Brooms Barn	125 Sandy	18 Flatford Mill	123 Carmarthen	106 Haverfordwest	1 Rothamsted (Barnfield)	34 Rothamsted (Allotments)	22 Rothamsted (Geescroft)	87 Writtle	17 Dale Fort	121 Port Talbot	90 Isleworth
<i>Gortyna micacea</i>	1968	—	—	—	1	2	—	23	—	—	2	0	1	4	6	—	0
Rosy Rustic	1969	7	18	171	0	4	5	27	0	11	9	5	5	11	5	1	0
<i>Bupalus piniaria</i>	1968	—	—	—	0	0	—	0	—	—	0	0	0	0	0	—	0
Bordered White	1969	0	1	0	0	5	8	0	0	0	0	0	0	0	0	0	0
<i>Panolis flammea</i>	1968	—	—	—	0	0	—	0	—	—	0	0	0	0	0	—	0
Pine Beauty	1969	0	1	0	0	0	8	0	0	0	0	0	0	0	0	0	0
<i>Cerapteryx graminis</i>	1968	—	—	—	0	0	—	0	—	—	0	0	0	0	0	—	0
Antler Moth	1969	1	4	0	0	0	29	4	1	0	1	0	0	0	0	1	0
<i>Erannis aurantiaria</i>	1968	—	—	—	0	0	—	2	—	—	0	0	28	0	0	—	0
Scarce Umber	1969	0	1	0	0	1	2	1	0	0	0	0	24	0	0	0	0
<i>Operophtera fagata</i>	1968	—	—	—	0	0	—	0	—	—	0	0	0	0	0	—	0
Northern Winter Moth	1969	3	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0
<i>Apamea sordens</i>	1968	—	—	—	2	5	—	0	—	—	4	1	0	7	0	—	0
Rustic Shoulder-knot	1969	1	0	0	0	0	2	2	0	0	1	0	0	0	0	1	0
<i>Gortyna flavago</i>	1968	—	—	—	0	0	—	4	—	—	2	0	3	3	1	—	3
Frosted Orange	1969	14	0	8	2	4	3	3	3	2	3	2	2	4	8	0	0
<i>Mamestra brassicae</i>	1968	—	—	—	9	1	—	9	—	—	1	0	1	3	1	—	6
Cabbage Moth	1969	9	0	1	8	10	1	0	0	2	2	0	3	7	0	3	0
<i>Noctua pronuba</i>	1968	—	—	—	2	6	—	4	—	—	7	9	72	31	6	—	4
Large Yellow Underwing	1969	7	16	3	4	3	2	0	7	6	1	1	86	6	18	1	0
<i>Diataraxia oleracea</i>	1968	—	—	—	4	6	—	10	—	—	4	4	2	31	39	—	1
Bright-line Brown-eye	1969	29	13	1	4	7	11	7	0	5	3	5	2	20	31	16	1
<i>Euxoa nigricans</i>	1968	—	—	—	0	0	—	0	—	—	0	0	0	6	0	—	0
Garden Dart	1969	0	0	0	0	0	0	0	45	0	0	0	0	0	0	11	0
<i>Apamea secalis</i>	1968	—	—	—	18	20	—	65	—	—	21	9	29	43	28	—	4
Common Rustic	1969	16	44	11	4	8	6	22	20	204	17	9	23	0	24	10	2
<i>Melanchra persicariae</i>	1968	—	—	—	1	11	—	3	—	—	3	0	0	6	9	—	0
Dot Moth	1969	0	44	5	2	23	4	5	1	5	6	0	2	3	15	4	0
<i>Operophtera brumata</i>	1968	—	—	—	0	1	—	11	—	—	2	1	107	0	3	—	10
Winter Moth	1969	20	4	1	0	0	2	12	0	6	2	1	153	1	5	1	2

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	130 Bath	16 Mortimer	69 Wisley	46 Alice Holt Lodge	62 Wye	92 Nettlecombe Court	104 Wellington	33 Dungeness	74 Cullompton	78 Ringwood	107 Axminster	67 Slapton Ley	113 Liskeard	114 Rosewarne	102 Helston (Church Hill)	Year	Pest Species
	—	4	8	0	7	7	—	20	2	8	—	9	—	—	72	1968	<i>Gortyna micacea</i>
	1	3	27	11	13	21	0	26	2	2	6	23	31	17	67	1969	Rosy Rustic
	—	0	0	0	0	0	—	0	0	0	—	0	—	—	0	1968	<i>Bupalus piniaria</i>
	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1969	Bordered White
	—	1	0	0	0	0	—	0	0	0	—	0	—	—	0	1968	<i>Panolis flammea</i>
	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1969	Pine Beauty
	—	0	0	3	0	0	—	3	0	0	—	0	—	—	1	1968	<i>Cerapteryx graminis</i>
	0	0	0	7	0	0	0	20	0	1	0	0	0	0	1	1969	Antler Moth
	—	7	3	10	0	2	—	0	0	12	—	0	—	—	0	1968	<i>Erannis aurantiaria</i>
	0	0	1	0	0	2	0	0	0	0	0	0	0	0	1	1969	Scarce Umber
	—	0	3	22	0	0	—	0	0	0	—	0	—	—	0	1968	<i>Operophtera fagata</i>
	0	0	7	0	4	0	0	0	0	5	0	0	0	0	0	1969	Northern Winter Moth
	—	0	1	0	3	0	—	2	0	0	—	0	—	—	0	1968	<i>Apamea sordens</i>
	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	1969	Rustic Shoulder-knot
	—	0	2	2	7	4	—	5	0	0	—	1	—	—	0	1968	<i>Gortyna flavago</i>
	0	3	4	0	4	4	0	2	0	3	12	2	13	0	0	1969	Frosted Orange
	—	1	0	0	1	0	—	7	12	0	—	6	—	—	30	1968	<i>Mamestra brassicae</i>
	4	0	5	0	3	0	0	2	14	0	4	7	2	4	0	1969	Cabbage Moth
	—	43	20	18	14	8	—	6	9	2	—	1	—	—	10	1968	<i>Noctua pronuba</i>
	6	3	15	9	0	13	5	4	10	3	10	3	12	7	10	1969	Large Yellow Underwing
	—	2	6	0	9	7	—	11	12	0	—	5	—	—	0	1968	<i>Diataraxia oleaea</i>
	12	2	3	0	0	7	3	12	17	2	2	14	0	14	0	1969	Bright-line Brown-eye
	—	0	0	0	0	0	—	0	0	0	—	0	—	—	0	1968	<i>Euxoa nigricans</i>
	4	0	0	0	1	0	0	2	0	0	0	0	0	2	0	1969	Garden Dart
	—	46	64	12	7	29	—	49	15	6	—	12	—	—	0	1968	<i>Apamea secalis</i>
	45	2	49	13	2	87	6	28	23	17	55	31	20	14	5	1969	Common Rustic
	—	2	2	0	14	0	—	0	1	0	—	12	—	—	0	1968	<i>Melanchra persicariae</i>
	13	1	0	2	1	6	2	0	5	0	2	93	28	7	0	1969	Dot Moth
	—	34	25	12	0	44	—	0	11	8	—	9	—	—	1	1968	<i>Operophtera brumata</i>
	3	60	17	2	10	20	0	0	6	2	25	4	0	1	2	1969	Winter Moth

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Pest Species	Year	59 Morangie	57 Ardross	58 Newton, Elgin	50 Grula, Skye	49 Fort Augustus	83 Killiecrankie (Pass)	29 Rannoch	60 Aros	48 Kindrogan	47 Dundee	82 Dunblane	97 Rowardennan	98 Auchencruive	39 Chester le Street	108 Egrement	72 Castletown, I.O.M.
<i>Abraxas grossulariata</i>	1968	—	0	0	—	0	—	0	1	—	0	0	0	0	18	—	11
Magpie Moth	1969	0	0	0	30	0	0	0	0	0	0	0	0	2	7	0	6
<i>Agrotis segetum</i>	1968	—	0	1	—	0	—	0	0	—	0	0	0	0	0	—	1
Turnip Moth	1969	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3
<i>Erannis defoliaria</i>	1968	—	9	8	—	47	—	9	0	—	1	0	75	0	0	—	14
Mottled Umber	1969	0	1	3	2	5	9	0	0	0	0	0	24	0	0	0	8
<i>Phlogophora meticulosa</i>	1968	—	0	0	—	0	—	1	1	—	0	0	0	0	0	—	21
Angle Shades	1969	0	0	0	5	1	1	0	0	0	0	0	0	0	0	0	3
<i>Alsophila aescularia</i>	1968	—	4	10	—	2	—	0	1	—	1	1	198	0	0	—	0
March Moth	1969	0	12	4	2	4	1	0	1	0	0	1	19	0	0	0	0
<i>Hepialus humuli</i>	1968	—	1	0	—	0	—	1	0	—	0	3	0	1	1	—	0
Ghost Swift	1969	0	0	1	3	0	0	3	0	0	0	3	0	4	0	4	0
<i>Hepialus lupulina</i>	1968	—	0	0	—	0	—	0	0	—	2	0	2	0	1	—	0
Common Swift	1969	0	0	0	0	0	0	15	0	0	0	0	3	2	0	1	3
<i>Agrotis ipsilon</i>	1968	—	1	1	—	0	—	0	0	—	0	0	0	0	0	—	9
Dark Sword Grass	1969	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	4
<i>Euproctis chrysorrhoea</i>	1968	—	0	0	—	0	—	0	0	—	0	0	0	0	0	—	0
Brown-tail	1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrotis exclamationis</i>	1968	—	0	3	—	0	—	0	0	—	6	4	0	3	5	—	59
Heart and Dart	1969	0	0	24	0	0	1	0	0	0	1	5	0	16	4	14	115
<i>Plusia gamma</i>	1968	—	1	3	—	3	—	1	4	—	0	1	0	1	47	—	60
Silver Y	1969	0	6	6	2	49	3	0	3	3	1	14	3	3	122	27	66
<i>Laphygma exigua</i>	1968	—	0	0	—	0	—	0	0	—	0	0	0	0	0	—	0
Small Mottled Willow	1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nycterosea obstipata</i>	1968	—	0	0	—	0	—	0	0	—	0	0	0	0	0	—	0
The Gem	1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nomophila noctuella</i>	1968	—	0	0	—	0	—	0	—	—	1	—	0	0	0	—	—
Rush Veneer Pearl	1969	0	0	0	0	0	—	0	—	0	—	—	—	1	0	—	—
<i>Plutella maculipennis</i>	1968	—	44	0	—	12	—	—	56	—	70	—	1	80	9	—	—
Diamond back Moth	1969	0	0	0	1	49	—	—	0	—	844	—	—	30	0	—	—
<i>Udea ferrugalis</i>	1968	—	0	0	—	0	—	—	3	—	0	—	0	0	0	—	—
Rusty Dot Pearl	1969	0	0	0	0	0	—	—	0	—	0	—	—	0	0	—	—

ROTHAMSTED INSECT SURVEY

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	45 Malham Tarn	40 Lancaster	68 Harrogate	101 Keighley	96 Riseholme	95 Gibraltar Point	35 Bangor	71 Rhyd y Creuau	77 Maentwrog	79 Shardlow	61 Sutton Bonington	117 Burton upon Trent	53 Preston Montford	119 Darlaston	112 Shirley	Year	Pest Species
	0	1	28	—	—	—	0	—	3	9	7	—	—	—	—	1968	<i>Abraxas grossulariata</i>
	0	0	9	4	8	1	1	24	4	5	6	11	8	0	29	1969	Magpie Moth
	0	0	1	—	—	—	1	—	0	0	5	—	—	—	—	1968	<i>Agrotis segetum</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1969	Turnip Moth
	18	0	5	—	—	—	0	—	1844	3	0	—	—	—	—	1968	<i>Erannis defoliaria</i>
	6	0	5	1	1	0	0	0	2422	2	0	0	0	0	0	1969	Mottled Umber
	0	1	2	—	—	—	13	—	8	6	0	—	—	—	—	1968	<i>Phlogophora meticulosa</i>
	0	4	0	0	14	5	3	0	1	10	4	2	9	1	0	1969	Angle Shades
	0	0	5	—	—	—	0	—	65	5	6	—	—	—	—	1968	<i>Alsophila aescularia</i>
	0	0	10	0	0	0	3	10	43	3	2	0	5	0	1	1969	March Moth
	0	3	0	—	—	—	0	—	0	2	1	—	—	—	—	1968	<i>Hepialus humuli</i>
	0	0	0	2	1	0	0	1	0	1	5	0	0	0	0	1969	Ghost Swift
	0	1	9	—	—	—	0	—	0	77	24	—	—	—	—	1968	<i>Hepialus lupulina</i>
	0	2	9	0	1	0	1	0	0	28	12	0	0	0	0	1969	Common Swift
	0	0	1	—	—	—	4	—	8	0	0	—	—	—	—	1968	<i>Agrotis ipsilon</i>
	0	0	0	0	0	1	0	0	1	2	0	1	0	0	0	1969	Dark Sword Grass
	0	0	0	—	—	—	0	—	0	0	0	—	—	—	—	1968	<i>Euproctis chrysorrhoea</i>
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1969	Brown-tail
	0	15	20	—	—	—	25	—	2	314	121	—	—	—	—	1968	<i>Agrotis exclamatoris</i>
	0	0	11	3	66	17	45	29	2	60	23	129	40	35	37	1969	Heart and Dart
	12	5	13	—	—	—	17	—	13	15	14	—	—	—	—	1968	<i>Plusia gamma</i>
	34	10	45	43	76	120	18	19	7	36	46	24	36	3	114	1969	Silver Y
	0	0	0	—	—	—	0	—	0	0	0	—	—	—	—	1968	<i>Laphygma exigua</i>
	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1969	Small Mottled Willow
	0	0	0	—	—	—	0	—	0	0	0	—	—	—	—	1968	<i>Nycterosea obstipata</i>
	0	0	0	0	1	1	0	1	1	0	1	0	1	0	0	1969	The Gem
	—	—	—	—	—	—	0	—	1	—	0	—	—	—	—	1968	<i>Nomophila noctuella</i>
	0	—	—	—	13	8	0	2	0	—	8	0	7	—	—	1969	Rush Veneer Pearl
	—	—	—	—	—	—	5	—	3	—	2	—	—	—	—	1968	<i>Plutella maculipennis</i>
	0	—	—	—	73	0	4	3	1	—	9	2	2	—	—	1969	Diamond-back Moth
	—	—	—	—	—	—	0	—	17	—	0	—	—	—	—	1968	<i>Udea ferrugalis</i>
	0	—	—	—	9	0	0	49	70	—	5	0	21	—	—	1969	Rusty Dot Pearl

ROTHAMSTED REPORT FOR 1970, PART 2

TABLE

The Rothamsted Insect Survey—Light traps: two years¹

Pest Species	Year	109 Holme Fen	126 Aberystwyth	94 Monks Wood	23 St. Ives	88 Brooms Barn	125 Sandy	18 Flatford Mill	123 Carmarthen	106 Haverfordwest	1 Rothamsted (Barnfield)	34 Rothamsted (Allotments)	22 Rothamsted (Geescroft)	87 Writtle	17 Dale Fort	121 Port Talbot	90 Isleworth
<i>Abraxas grossulariata</i>	1968	—	—	—	7	3	—	20	—	—	9	1	96	1	183	—	5
Magpie Moth	1969	9	11	8	2	3	1	17	88	70	11	3	104	7	48	5	3
<i>Agrotis segetum</i>	1968	—	—	—	6	14	—	0	—	—	6	5	3	61	0	—	0
Turnip Moth	1969	4	0	0	0	1	4	0	0	1	0	0	2	0	0	0	0
<i>Erannis defoliaria</i>	1968	—	—	—	0	1	—	2	—	—	0	0	48	0	0	—	0
Mottled Umber	1969	5	1	0	0	0	7	7	0	1	1	0	20	0	0	0	0
<i>Phlogophora meticulosa</i>	1968	—	—	—	3	3	—	27	—	—	0	2	5	2	12	—	1
Angle Shades	1969	30	5	17	9	13	7	49	15	2	2	1	9	3	6	0	1
<i>Alsophila aescularia</i>	1968	—	—	—	3	4	—	23	—	—	4	1	35	6	1	—	0
March Moth	1969	17	4	0	0	2	5	16	0	3	0	1	39	1	3	2	0
<i>Hepialus humuli</i>	1968	—	—	—	0	0	—	2	—	—	3	0	7	0	0	—	0
Ghost Swift	1969	3	2	5	0	0	0	3	5	15	1	0	6	0	0	0	0
<i>Hepialus lupulina</i>	1968	—	—	—	37	1	—	8	—	—	9	0	12	7	7	—	0
Common Swift	1969	0	0	0	3	0	1	14	0	0	5	4	4	10	8	0	1
<i>Agrotis ipsilon</i>	1968	—	—	—	0	1	—	2	—	—	0	0	0	0	9	—	0
Dark Sword Grass	1969	1	1	0	0	2	0	0	0	0	0	0	1	0	10	0	0
<i>Euproctis chryorrhoea</i>	1968	—	—	—	0	0	—	0	—	—	0	0	0	0	0	—	0
Brown-tail	1969	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
<i>Agrotis exclamationis</i>	1968	—	—	—	93	83	—	33	—	—	66	33	24	599	27	—	6
Heart and Dart	1969	30	7	12	14	18	10	5	27	226	31	4	8	48	39	8	0
<i>Plusia gamma</i>	1968	—	—	—	12	16	—	21	—	—	4	4	31	73	48	—	0
Silver Y	1969	65	101	30	49	49	20	82	124	78	35	23	38	140	102	121	1
<i>Laphygma exigua</i>	1968	—	—	—	0	0	—	0	—	—	0	0	0	0	0	—	0
Small Mottled Willow	1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nycterosea obstipata</i>	1968	—	—	—	0	0	—	0	—	—	0	0	0	0	0	—	0
The Gem	1969	4	3	1	1	2	6	2	0	0	4	0	1	0	0	0	2
<i>Nomophila noctuella</i>	1968	—	—	—	—	10	—	0	—	—	3	1	0	0	0	—	0
Rush Veneer Pearl	1969	11	20	17	—	8	29	15	—	—	18	0	3	—	—	0	0
<i>Plutella maculipennis</i>	1968	—	—	—	—	75	—	0	—	—	548	406	9	1	3	—	51
Diamond-back Moth	1969	16	13	8	—	272	115	4	20	—	729	382	9	—	—	0	39
<i>Udea ferrugalis</i>	1968	—	—	—	—	0	—	3	—	—	2	0	1	0	0	—	0
Rusty Dot Pearl	1969	23	637	0	—	5	20	5	—	—	7	6	9	—	—	274	3

ROTHAMSTED INSECT SURVEY

2(d)

records of the moths of economic interest (1968 and 1969)

	130 Bath	16 Mortimer	69 Wisley	46 Alice Holt Lodge	62 Wye	92 Nettlecombe Court	104 Wellington	33 Dungeness	74 Cullompton	78 Ringwood	107 Axminster	67 Slapton Ley	113 Liskeard	114 Rosewarne	102 Helston (Church Hill)	Year	Pest Species
	—	215	1	0	7	18	—	4	56	3	—	10	—	—	223	1968	<i>Abraxas grossulariata</i>
	0	81	2	1	0	11	9	12	34	0	0	7	19	1	108	1969	Magpie Moth
	—	0	0	0	1	5	—	2	4	0	—	0	—	—	4	1968	<i>Agrotis segetum</i>
	1	0	0	2	0	0	0	4	0	0	0	1	2	4	0	1969	Turnip Moth
	—	24	21	19	0	15	—	0	1	11	—	2	—	—	2	1968	<i>Erannis defoliaria</i>
	0	7	10	9	4	15	0	0	0	3	11	1	0	1	1	1969	Mottled Umber
	—	4	2	0	3	25	—	1	3	1	—	4	—	—	5	1968	<i>Phlogophora meticulosa</i>
	1	2	1	0	5	10	0	1	7	2	9	1	13	1	12	1969	Angle Shades
	—	6	7	10	3	6	—	0	6	5	—	15	—	—	0	1968	<i>Alsophila aescularia</i>
	3	7	7	17	7	17	0	0	1	6	125	10	0	3	1	1969	March Moth
	—	1	2	5	1	0	—	0	1	0	—	1	—	—	2	1968	<i>Hepialus humuli</i>
	0	0	1	3	1	0	0	0	0	1	1	1	1	5	2	1969	Ghost Swift
	—	19	2	2	23	0	—	55	2	2	—	1	—	—	0	1968	<i>Hepialus lupulina</i>
	2	4	0	0	1	0	0	15	0	0	0	0	0	1	0	1969	Common Swift
	—	0	1	0	0	12	—	1	1	1	—	1	—	—	8	1968	<i>Agrotis ipsilon</i>
	0	0	3	0	0	1	0	2	1	0	1	2	1	2	0	1969	Dark Sword Grass
	—	0	0	0	0	0	—	83	0	0	—	0	—	—	0	1968	<i>Euproctis chrysorrhoea</i>
	0	0	0	0	0	0	0	426	0	0	0	0	0	0	0	1969	Brown-tail
	—	30	66	48	361	56	—	139	25	0	—	44	—	—	68	1968	<i>Agrotis exclamationis</i>
	6	19	48	18	2	34	15	47	19	9	43	41	209	61	68	1969	Heart and Dart
	—	26	112	37	45	119	—	22	120	2	—	35	—	—	30	1968	<i>Plusia gamma</i>
	21	36	171	17	22	179	1	45	128	5	302	120	102	101	63	1969	Silver Y
	—	0	0	0	0	0	—	0	0	0	—	1	—	—	0	1968	<i>Laphygma exigua</i>
	3	0	1	0	0	0	0	0	0	0	0	2	0	0	0	1969	Small Mottled Willow
	—	0	0	0	0	0	—	0	0	0	—	1	—	—	0	1968	<i>Nycterosea obstipata</i>
	0	1	2	0	0	2	0	2	12	2	0	13	0	10	0	1969	The Gem
	—	—	0	0	1	2	—	—	12	—	—	38	—	—	—	1968	<i>Nomophila noctuella</i>
	—	—	0	0	0	32	—	—	79	—	—	65	—	71	—	1969	Rush Veneer Pearl
	—	—	0	0	0	4	—	—	125	—	—	77	—	—	—	1968	<i>Plutella maculipennis</i>
	—	—	34	28	0	7	—	—	60	—	—	36	—	304	—	1969	Diamond-back Moth
	—	—	0	0	0	80	—	—	99	—	—	90	—	—	—	1968	<i>Udea ferrugalis</i>
	—	—	15	0	1	127	—	—	330	—	—	341	—	623	—	1969	Rusty Dot Pearl