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ROTHAMSTED
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Rothamsted Experimental Station Report for 1970 Part 2



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Rothamsted Insect Survey

L. R. Taylor and R. A. French

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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.

ROTHAMSTED INSECT SURVEY

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 | | | | | | | | | | | |

ROTHAMSTED INSECT SURVEY

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 |

ROTHAMSTED REPORT FOR 1970, PART 2

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 |

ROTHAMSTED INSECT SURVEY

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 | | 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 | | | | | |

ROTHAMSTED REPORT FOR 1970, PART 2

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 | | | | | | 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 |

ROTHAMSTED REPORT FOR 1970, PART 2

TABLE
The Rothamsted Insect Survey—Light Traps: two years'

| 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 | 29 |
| <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 | |

ROTHAMSTED INSECT SURVEY

2(a)

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 |

ROTHAMSTED REPORT FOR 1970, PART 2

TABLE
The Rothamsted Insect Survey—Light Traps: two years'

| 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 |

ROTHAMSTED INSECT SURVEY

2(b)

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 |
|--|----------|-------------|-----------|---------------------|--------|----------------------|----------------|--------------|---------------|-------------|---------------|----------------|--------------|---------------|---------------------------|------|------------------------------|
| | — | 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 | 2 | 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 |

ROTHAMSTED REPORT FOR 1970, PART 2

TABLE

The Rothamsted Insect Survey—Light Traps: two years'

| 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

2(c)

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

| | 45 | 40 | 68 | 101 | 96 | 95 | 35 | 71 | 77 | 79 | 61 | 117 | 53 | 119 | 112 | Year | Pest Species |
|----|-------------|-----------|-----------|----------|-----------|-----------------|--------|---------------|-----------|----------|------------------|-------------------|------------------|-----------|---------|------|-------------------------------|
| | Malham Tarn | Lancaster | Harrogate | Keighley | Riseholme | Gibraltar Point | Bangor | Rhyd y Creuau | Maentwrog | Shardlow | Sutton Bonington | Burton upon Trent | Preston Montford | Darlaston | Shirley | | |
| | 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 | 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 exclamatoris</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 |