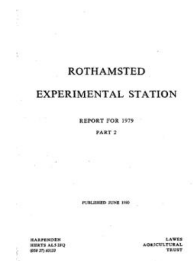


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ROTHAMSTED  
RESEARCH

# Rothamsted Experimental Station Report for 1979 Part 2



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## Rothamsted Insect Survey Eleventh Annual Summary

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

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## Rothamsted Insect Survey Eleventh Annual Summary

L. R. TAYLOR and R. A. FRENCH

### Suction traps 1979

Daily samples were collected from 17 April to 4 November 1979 and the *Aphid Bulletins* were issued weekly from 7 May (*Bulletin* No. 1) to 4 November (*Bulletin* No. 26). The 33 aphid taxa listed in Table 1 (a-g) are those in the *Aphid Bulletin*.

In 1979 a new trap at Littlehampton, Sussex replaced North Farm, Pulborough, Sussex on the *Aphid Bulletins*. A trap was also operating at Belfast, N. Ireland and these results appear in Table 1 (a-g).

The trap at Rainham continued to operate throughout the year, but due to pressure of work, the results did not appear on the *Bulletins* between 2 July and 9 September 1979. In addition traps were operating at Stirling and Pathhead in Scotland and North Farm, Sussex. Suction traps sampling at 5 ft (1.5 m) were operating at Dundee, East Craigs, Ingraston, Broom's Barn, Rothamsted Tower and Littlehampton; records for these do not appear in *Bulletins* nor in Table 1.

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

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

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

Sample volumes were halved at various sites (\* see details below) between 20 June and 24 September. 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 (a-g) are corrected to full volume samples.

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

### Light traps

Table 2 (a-f) gives the annual catches during 1977 and 1978 of the same pest, or migratory, Lepidoptera as in previous years. Eighty-four sites completed the 364 day sample for 1978.

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

Once again voluntary workers operated most traps and identified many of the insects; for their help we are most grateful.

\* Sample volumes were halved at Silwood Park from 20-26 June, Hereford 20 June-3 September, Rainham 20 June-13 September. Rothamsted Tower 20 June-17 September. Long Ashton and Writtle 20 June-18 September, Wye 20 June-19 September and Shardlow 20 June-24 September.

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

| Sites                             | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | Belfast | High Mowthorpe | Preston | Shardlow | Aberystwyth | Broom's Barn | Hereford |
|-----------------------------------|-------|--------|-----------|--------------|-----------|---------|----------------|---------|----------|-------------|--------------|----------|
| Species                           |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Acyrtosiphon pisum</i>         |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Amphorophora rubi</i>          |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Aphis fabae</i> grp.           |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Aphis</i> spp.                 |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Aulacorthum solani</i>         |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Brachycaudus helichrysi</i>    |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Brevicoryne brassicae</i>      |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Cavariella aegopodii</i>       |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Cinara</i> spp.                |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Drepanosiphum platanoidis</i>  |       |        |           |              |           |         |                |         | 30       |             | 11           | 19       |
| <i>Dysaphis plantaginea</i>       |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Elatobium abietinum</i>        |       |        |           |              |           |         |                |         |          | 2           |              | 1        |
| <i>Eriosoma ulmi</i>              |       |        |           |              |           |         |                |         |          |             |              | 1        |
| <i>Hyalopterus pruni</i>          |       |        |           |              |           |         |                |         |          |             |              | 1        |
| <i>Hyperomyzus lactucae</i>       |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Macrosiphum euphorbiae</i>     |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Megoura viciae</i>             |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Metopolophium dirhodum</i>     |       |        |           |              |           |         |                |         |          |             |              | 2        |
| <i>Metopolophium festucae</i>     |       |        |           |              |           |         |                |         |          | 1           |              |          |
| <i>Myzus ascalonicus</i>          |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Myzus certus</i>               |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Myzus ornatus</i>              |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Myzus persicae</i> grp.        |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Nasonovia ribisnigri</i>       |       |        |           |              |           |         |                |         |          |             |              | 1        |
| <i>Pemphigus</i> spp.             |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Pentatrachopus fragaefolii</i> |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Phorodon humuli</i>            |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Phyllaphis fagi</i>            |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Rhopalosiphum insertum</i>     |       |        |           |              |           |         |                |         |          |             |              | 5        |
| <i>Rhopalosiphum maidis</i>       |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Rhopalosiphum padi</i>         |       |        |           |              |           |         |                |         |          | 4           |              |          |
| <i>Sitobion avenae</i>            |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Sitobion fragariae</i>         |       |        |           |              |           |         |                |         |          | 3           |              |          |
| First aphid caught                |       |        |           |              |           |         |                |         | May 15   | April 17    | May 15       | May 14   |

Silwood 8–14 Jan., 1 *M. ornatus*, 9–15 April, 1 *M. ornatus*  
 Aberystwyth 17 April, 1 *S. fragariae*  
 18 April, 1 *M. persicae*  
 21 April, 1 *R. padi*

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1(a)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1979  
23 April to 20 May 1979

| Rothamsted Tower | Writtle | Rainham | Long Ashton | Silwood Park | Zeeland | N.E. Polder | Wye, Kent | Littlehampton | Starcross | Rosewarne | Sites | Species                           |
|------------------|---------|---------|-------------|--------------|---------|-------------|-----------|---------------|-----------|-----------|-------|-----------------------------------|
|                  |         |         |             |              | 2       |             |           | 1             |           |           |       | <i>Acyrtosiphon pisum</i>         |
|                  | 1       |         |             |              |         |             |           |               |           |           |       | <i>Amphorophora rubi</i>          |
|                  | 1       |         |             |              |         |             |           |               |           |           |       | <i>Aphis fabae</i> grp.           |
|                  | 2       |         |             |              | 4       |             |           |               |           |           |       | <i>Aphis</i> spp.                 |
| 13               | 5       | 65      | 31          | 19           |         |             | 33        |               | 9         |           |       | <i>Aulacorthum solani</i>         |
|                  |         |         |             |              |         |             |           |               |           |           |       | <i>Brachycaudus helichrysi</i>    |
|                  |         |         |             |              |         |             |           |               |           |           |       | <i>Brevicoryne brassicae</i>      |
|                  |         |         |             |              |         |             |           |               |           |           |       | <i>Cavariella aegopodii</i>       |
|                  |         |         |             |              |         |             |           |               |           |           |       | <i>Cinara</i> spp.                |
|                  |         |         |             |              |         |             |           |               |           |           |       | <i>Drepanosiphum platanoidis</i>  |
| 1                |         | 2       |             | 1            |         |             | 2         | 2             | 1         | 5         |       | <i>Dysaphis plantaginea</i>       |
|                  |         |         |             |              |         |             |           |               |           |           |       | <i>Elatobium abietinum</i>        |
|                  |         |         |             |              |         |             |           |               |           |           |       | <i>Eriosoma ulmi</i>              |
|                  |         |         |             |              |         |             |           |               |           |           |       | <i>Hyalopterus pruni</i>          |
|                  |         | 2       |             |              |         |             |           |               |           |           |       | <i>Hyperomyzus lactucae</i>       |
|                  |         |         |             |              |         |             |           |               |           |           |       | <i>Macrosiphum euphorbiae</i>     |
| 1                | 2       | 5       |             |              | 2       | 1           |           |               |           |           |       | <i>Megoura viciae</i>             |
|                  |         | 2       |             |              |         |             | 2         |               |           |           |       | <i>Metopolophium dirhodum</i>     |
| 1                | 3       | 3       | 1           | 3            |         |             |           | 1             | 1         |           |       | <i>Metopolophium festucae</i>     |
|                  |         |         |             |              |         |             |           |               |           |           |       | <i>Myzus ascalonicus</i>          |
|                  |         |         |             |              |         |             |           |               |           |           |       | <i>Myzus certus</i>               |
|                  |         |         |             |              |         |             |           |               |           |           |       | <i>Myzus ornatus</i>              |
|                  | 1       | 1       |             |              |         |             |           |               |           |           |       | <i>Myzus persicae</i> grp.        |
|                  |         |         |             |              |         |             |           |               |           |           |       | <i>Nasonovia ribisnigri</i>       |
|                  |         |         |             |              |         |             |           |               |           |           |       | <i>Pemphigus</i> spp.             |
|                  |         |         |             |              |         |             |           |               |           |           |       | <i>Pentatrichopus fragaefolii</i> |
|                  | 1       |         |             | 1            |         |             |           |               |           |           |       | <i>Phorodon humuli</i>            |
|                  | 2       | 5       |             |              | 3       |             |           |               |           |           |       | <i>Phyllaphis fagi</i>            |
|                  | 3       |         |             | 1            |         |             |           |               |           |           |       | <i>Rhopalosiphum insertum</i>     |
|                  |         |         |             | 1            | 1       | 1           |           |               |           |           |       | <i>Rhopalosiphum maidis</i>       |
|                  |         |         |             |              |         |             |           |               |           | 1         |       | <i>Rhopalosiphum padi</i>         |
|                  |         | 1       |             |              |         |             |           |               |           |           |       | <i>Sitobion avenae</i>            |
|                  |         |         |             |              |         |             |           |               |           |           |       | <i>Sitobion fragariae</i>         |
| May 13           | May 8   | May 6   | May 12      | Jan 9-14     | May 14  | May 12+13   | May 15    |               | May 18    | May 12    |       | First aphid caught                |

ROTHAMSTED REPORT FOR 1979, PART 2

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

| Sites                             |           |           |           |              |           |           |                |           |          |             |              |          |
|-----------------------------------|-----------|-----------|-----------|--------------|-----------|-----------|----------------|-----------|----------|-------------|--------------|----------|
| Species                           | Elgin     | Dundee    | Edinburgh | Auchincruive | Newcastle | Belfast   | High Mowthorpe | Preston   | Shardlow | Aberystwyth | Broom's Barn | Hereford |
| <i>Acyrtosiphon pisum</i>         |           |           |           |              |           |           |                |           | 4        |             | 7            |          |
| <i>Amphorophora rubi</i>          |           |           |           |              |           |           |                |           | 2        |             |              |          |
| <i>Aphis fabae</i> grp.           |           |           |           |              |           |           |                |           | 39       |             | 14           | 35       |
| <i>Aphis</i> spp.                 |           |           | 1         |              |           |           | 1              | 1         | 13       | 4           |              | 19       |
| <i>Aulacorthum solani</i>         |           |           |           |              |           | 2         |                |           |          |             |              |          |
| <i>Brachycaudus helichrysi</i>    |           |           |           | 1            |           | 15        | 1              | 12        | 120      | 24          | 29           | 478      |
| <i>Brevicoryne brassicae</i>      |           |           |           |              |           |           |                |           |          |             |              |          |
| <i>Cavariella aegopodii</i>       |           | 1         |           |              |           | 6         | 11             | 31        | 555      | 19          | 148          | 594      |
| <i>Cinara</i> spp.                |           |           |           |              |           |           |                |           |          |             |              |          |
| <i>Drepanosiphum platanoidis</i>  | 180       | 115       | 493       | 263          | 70        | 275       | 753            | 304       | 1242     | 244         | 422          | 788      |
| <i>Dysaphis plantaginea</i>       |           |           |           |              |           |           |                |           |          |             | 6            |          |
| <i>Elatobium abietinum</i>        | 26        | 5         | 4         | 69           | 2         | 108       | 2              | 3         | 2        | 995         | 7            | 17       |
| <i>Eriosoma ulmi</i>              |           |           |           |              |           |           |                |           | 4        |             | 5            | 18       |
| <i>Hyalopterus pruni</i>          |           |           |           |              |           |           | 1              |           |          |             | 3            |          |
| <i>Hyperomyzus lactucae</i>       |           |           | 2         | 2            |           | 8         |                | 6         | 18       | 4           | 3            | 21       |
| <i>Macrosiphum euphorbiae</i>     |           |           |           |              | 1         | 13        |                |           |          |             |              |          |
| <i>Megoura viciae</i>             |           |           |           |              |           |           |                |           |          |             |              |          |
| <i>Metopolophium dirhodum</i>     |           |           |           |              |           | 1         |                | 1         | 4        | 3           | 2            |          |
| <i>Metopolophium festucae</i>     |           | 1         |           |              |           | 4         |                |           |          |             | 2            |          |
| <i>Myzus ascalonicus</i>          | 1         |           | 11        |              | 1         | 16        | 1              | 6         | 11       | 4           | 6            | 2        |
| <i>Myzus certus</i>               |           |           |           |              |           |           |                |           |          | 1           |              |          |
| <i>Myzus ornatus</i>              |           |           | 1         |              |           |           |                |           |          |             |              |          |
| <i>Myzus persicae</i> grp.        |           |           |           |              |           |           |                | 2         |          |             |              |          |
| <i>Nasonovia ribisnigri</i>       |           |           |           |              |           | 3         |                | 1         |          |             | 1            | 7        |
| <i>Pemphigus</i> spp.             |           |           |           |              |           |           |                |           | 2        |             |              |          |
| <i>Pentatrichopus fragaefolii</i> |           |           |           |              |           |           |                |           |          |             |              |          |
| <i>Phorodon humuli</i>            |           |           |           |              |           |           |                |           | 51       | 7           | 17           | 504      |
| <i>Phyllaphis fagi</i>            | 3         | 1         | 1         | 1            |           | 6         | 5              | 1         | 5        |             | 3            |          |
| <i>Rhopalosiphum insertum</i>     | 3         | 14        | 13        | 56           | 106       | 13        | 64             | 160       | 1594     | 30          | 11           | 5543     |
| <i>Rhopalosiphum maidis</i>       |           |           |           |              |           | 110       |                |           |          |             |              |          |
| <i>Rhopalosiphum padi</i>         |           |           | 27        |              |           | 508       |                | 4         | 16       | 208         | 54           | 50       |
| <i>Sitobion avenae</i>            |           | 1         |           |              |           |           |                |           |          |             |              |          |
| <i>Sitobion fragariae</i>         |           |           |           | 2            |           |           |                | 2         | 30       | 2           | 10           | 28       |
| First aphid caught                | May<br>30 | May<br>25 | May<br>30 | May<br>30    | May<br>30 | May<br>26 | May<br>27      | May<br>24 |          |             |              |          |

ROTHAMSTED INSECT SURVEY

1(b)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1979  
21 May to 17 June 1979

|                  |         |         |             |              |         |             |           |               |           |           | Sites | Species                           |
|------------------|---------|---------|-------------|--------------|---------|-------------|-----------|---------------|-----------|-----------|-------|-----------------------------------|
| Rothamsted Tower | Writtle | Rainham | Long Ashton | Silwood Park | Zeeland | N.E. Polder | Wye, Kent | Littlehampton | Starcross | Rosewarne |       |                                   |
| 2                | 2       | 4       | 2           | 1            | 9       | 1           | 1         | 1             | 1         |           |       | <i>Acyrtosiphon pisum</i>         |
| 2                | 3       | 14      | 16          | 26           | 11      | 6           | 25        | 39            | 10        | 1         |       | <i>Amphorophora rubi</i>          |
| 4                | 6       | 66      | 20          | 14           |         |             | 13        | 20            | 7         | 2         |       | <i>Aphis fabae</i> grp.           |
|                  |         | 1       | 1           |              |         | 1           |           |               |           |           |       | <i>Aphis</i> spp.                 |
| 78               | 393     | 592     | 277         | 185          |         |             | 70        | 253           | 71        | 27        |       | <i>Aulacorthum solani</i>         |
|                  |         |         |             |              |         |             |           |               |           |           |       | <i>Brachycaudus helichrysi</i>    |
|                  |         |         |             |              |         |             |           |               |           |           |       | <i>Brevicoryne brassicae</i>      |
| 379              | 574     | 764     | 265         | 612          | 515     | 156         | 305       | 374           | 54        | 6         |       | <i>Cavariella aegopodii</i>       |
|                  | 2       | 1       | 1           | 1            |         |             | 1         | 1             |           |           |       | <i>Cinara</i> spp.                |
| 80               | 60      | 64      | 654         | 522          |         |             | 47        | 48            | 106       | 2         |       | <i>Drepanosiphum platanoidis</i>  |
|                  |         | 2       |             | 1            |         | 1           |           |               |           |           |       | <i>Dysaphis plantaginea</i>       |
| 3                | 4       | 1       | 11          | 34           |         |             | 23        | 17            | 20        | 19        |       | <i>Elatobium abietinum</i>        |
| 2                |         | 70      | 1           | 12           |         |             | 15        | 5             |           |           |       | <i>Eriosoma ulmi</i>              |
| 1                |         | 33      |             | 2            | 3       |             | 6         |               |           |           |       | <i>Hyalopterus pruni</i>          |
| 6                | 4       | 9       | 9           | 39           |         | 5           | 6         | 11            | 2         | 1         |       | <i>Hyperomyzus lactucae</i>       |
|                  |         | 5       | 2           | 3            |         |             | 2         | 1             |           |           |       | <i>Macrosiphum euphorbiae</i>     |
|                  |         |         |             |              |         |             | 1         |               |           |           |       | <i>Megoura viciae</i>             |
|                  | 1       | 7       | 2           | 48           | 1       |             | 2         | 2             |           |           |       | <i>Metopolophium dirhodum</i>     |
|                  | 1       | 3       | 4           | 1            |         |             |           | 8             | 5         | 4         |       | <i>Metopolophium festucae</i>     |
| 4                | 7       | 14      | 8           | 10           |         |             | 5         | 9             | 5         | 2         |       | <i>Myzus ascalonicus</i>          |
|                  |         |         |             |              |         |             |           |               |           | 1         |       | <i>Myzus certus</i>               |
|                  |         |         |             |              |         |             |           | 1             |           |           |       | <i>Myzus ornatus</i>              |
| 3                | 3       | 3       | 8           | 2            | 1       | 4           | 3         | 5             | 3         |           |       | <i>Myzus persicae</i> grp.        |
|                  |         |         |             |              |         |             | 2         |               |           |           |       | <i>Nasonovia ribisnigri</i>       |
|                  |         |         |             |              |         |             |           |               |           |           |       | <i>Pemphigus</i> spp.             |
| 49               | 88      | 218     | 18          | 118          | 4       |             | 108       | 89            | 1         | 1         |       | <i>Pentatrachopus fragaefolii</i> |
| 3                | 7       | 4       | 1           | 54           |         |             | 3         |               | 1         |           |       | <i>Phorodon humuli</i>            |
| 69               | 39      | 117     | 483         | 80           | 67      | 357         | 74        | 315           | 80        | 40        |       | <i>Phyllaphis fagi</i>            |
| 2                | 1       | 5       |             |              | 2       | 21          | 3         |               |           | 6         |       | <i>Rhopalosiphum insertum</i>     |
| 5                |         | 9       | 2           | 3            | 18      | 80          | 3         | 5             | 2         | 3         |       | <i>Rhopalosiphum maidis</i>       |
|                  |         | 3       | 2           |              |         |             | 1         |               |           | 1         |       | <i>Rhopalosiphum padi</i>         |
| 4                | 11      | 32      | 19          | 48           |         | 1           | 17        | 35            | 6         |           |       | <i>Sitobion avenae</i>            |
|                  |         |         |             |              |         |             |           |               |           |           |       | <i>Sitobion fragariae</i>         |

First aphid caught

ROTHAMSTED REPORT FOR 1979, PART 2

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

| Sites                             |       |        |           |              |           |         |                |         |          |             |              |          |
|-----------------------------------|-------|--------|-----------|--------------|-----------|---------|----------------|---------|----------|-------------|--------------|----------|
| Species                           | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | Belfast | High Mowthorpe | Preston | Shardlow | Aberystwyth | Broom's Barn | Hereford |
| <i>Acyrtosiphon pisum</i>         | 20    | 1      | 2         | 10           | 4         | 7       | 9              | 5       | 100      | 1           | 96           | 52       |
| <i>Amphorophora rubi</i>          | 1     |        |           | 1            |           |         |                |         | 4        |             | 7            | 8        |
| <i>Aphis fabae</i> grp.           |       |        |           |              | 1         | 3       |                | 1       | 78       | 4           | 82           | 142      |
| <i>Aphis</i> spp.                 |       |        |           |              | 9         | 1       | 4              | 1       | 230      | 8           | 81           | 44       |
| <i>Aulacorthum solani</i>         |       |        |           |              |           |         |                | 1       |          | 2           |              |          |
| <i>Brachycaudus helichrysi</i>    | 1     | 6      | 4         | 1            |           | 17      | 5              | 37      | 316      | 31          | 108          | 1424     |
| <i>Brevicoryne brassicae</i>      |       |        |           |              |           |         |                |         |          |             | 18           |          |
| <i>Cavariella aegopodii</i>       | 4     | 25     | 13        | 8            | 26        | 36      | 62             | 255     | 2018     | 6           | 158          | 784      |
| <i>Cinara</i> spp.                | 2     | 6      | 2         | 1            | 5         | 1       | 7              | 1       | 6        | 3           | 8            | 4        |
| <i>Drepanosiphum platanoidis</i>  | 45    | 50     | 29        | 30           | 65        | 24      | 64             | 134     | 224      | 34          | 51           | 128      |
| <i>Dysaphis plantaginea</i>       |       |        |           |              |           |         |                |         |          | 11          | 4            | 2        |
| <i>Elatobium abietinum</i>        | 8     |        | 1         | 12           | 1         | 12      |                |         |          | 61          |              |          |
| <i>Eriosoma ulmi</i>              | 27    | 202    | 8         | 3            | 22        | 1       | 64             | 43      | 208      | 2           | 170          | 352      |
| <i>Hyalopterus pruni</i>          |       | 4      |           |              | 3         | 1       | 16             | 18      | 243      | 3           | 161          | 148      |
| <i>Hyperomyzus lactucae</i>       |       | 1      | 4         | 3            | 5         | 6       | 5              | 11      | 42       | 4           | 15           | 70       |
| <i>Macrosiphum euphorbiae</i>     |       |        | 3         | 1            |           | 5       | 1              | 1       | 20       | 3           | 3            | 18       |
| <i>Megoura viciae</i>             | 1     |        | 1         |              |           | 6       |                |         |          |             | 1            |          |
| <i>Metopolophium dirhodum</i>     |       | 3      | 13        | 6            | 21        | 10      | 28             | 110     | 3026     | 356         | 3801         | 3580     |
| <i>Metopolophium festucae</i>     |       |        | 2         | 1            | 1         | 7       | 1              | 3       | 8        | 2           | 41           | 10       |
| <i>Myzus ascalonicus</i>          | 1     |        | 6         |              | 1         | 4       | 1              |         |          |             | 6            |          |
| <i>Myzus certus</i>               |       |        |           |              |           | 1       |                |         |          |             |              |          |
| <i>Myzus ornatus</i>              |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Myzus persicae</i> grp.        |       |        |           |              |           | 2       |                |         | 2        |             | 2            |          |
| <i>Nasonovia ribisnigri</i>       |       |        | 2         |              | 1         | 3       |                | 5       | 4        | 1           | 8            |          |
| <i>Pemphigus</i> spp.             |       | 2      |           |              | 6         | 1       | 1              | 9       | 154      | 3           | 65           | 202      |
| <i>Pentatrachopus fragaefolii</i> |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Phorodon humuli</i>            |       | 1      |           |              | 1         | 2       | 8              |         | 556      | 3           | 72           | 1626     |
| <i>Phyllaphis fagi</i>            | 16    | 10     | 7         | 2            | 9         | 9       | 12             | 2       | 22       | 2           | 15           | 6        |
| <i>Rhopalosiphum insertum</i>     | 2     | 38     | 40        | 45           | 296       | 104     | 94             | 292     | 1182     | 32          | 47           | 978      |
| <i>Rhopalosiphum maidis</i>       | 2     | 85     |           | 2            | 37        | 30      | 47             | 68      | 66       | 87          | 28           | 54       |
| <i>Rhopalosiphum padi</i>         |       | 6      | 11        |              | 4         | 306     | 16             |         | 56       | 30          | 381          | 62       |
| <i>Sitobion avenae</i>            |       | 2      |           |              |           | 1       | 1              | 3       | 6        |             | 34           | 20       |
| <i>Sitobion fragariae</i>         | 1     | 1      | 1         | 1            | 1         |         | 2              | 6       | 54       | 2           | 70           | 64       |

ROTHAMSTED INSECT SURVEY

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of aphids of economic, or other, interest reported in the Weekly Bulletin 1979  
18 June to 15 July 1979

|  | Rothamsted Tower | Writtle | Rainham | Long Ashton | Silwood Park | Zeeland | N.E. Polder | Wye, Kent | Littlehampton | Starcross | Rosewarne | Sites | Species                           |
|--|------------------|---------|---------|-------------|--------------|---------|-------------|-----------|---------------|-----------|-----------|-------|-----------------------------------|
|  | 70               | 262     | 176     | 14          | 47           | 52      | 9           | 422       | 74            | 5         |           |       | <i>Acyrtosiphon pisum</i>         |
|  | 2                | 4       |         |             |              | 1       |             | 3         | 2             |           |           |       | <i>Amphorophora rubi</i>          |
|  | 88               | 144     | 315     | 67          | 117          | 133     | 38          | 308       | 142           | 18        | 1         |       | <i>Aphis fabae</i> grp.           |
|  | 77               | 88      | 645     | 160         | 223          |         |             | 267       | 105           | 20        | 1         |       | <i>Aphis</i> spp.                 |
|  |                  |         | 4       |             |              |         |             |           |               | 2         |           |       | <i>Aulacorthum solani</i>         |
|  | 85               | 119     | 217     | 377         | 162          | 9       | 2           | 120       | 167           | 31        | 72        |       | <i>Brachycaudus helichrysi</i>    |
|  |                  | 4       |         |             |              |         | 2           |           |               |           |           |       | <i>Brevicoryne brassicae</i>      |
|  | 325              | 134     | 484     | 495         | 421          | 413     | 149         | 273       | 135           | 15        | 4         |       | <i>Cavariella aegopodii</i>       |
|  | 9                | 2       | 8       | 6           | 15           |         |             | 18        | 3             | 7         |           |       | <i>Cinara</i> spp.                |
|  | 30               | 21      | 8       | 57          | 16           |         |             | 26        | 55            | 29        | 18        |       | <i>Drepanosiphum platanoidis</i>  |
|  | 18               | 6       | 48      | 6           | 4            |         |             | 6         | 2             | 2         |           |       | <i>Dysaphis plantaginea</i>       |
|  | 2                |         |         |             |              |         |             |           |               | 1         |           |       | <i>Elatobium abietinum</i>        |
|  | 29               | 58      | 178     | 15          | 28           |         |             | 174       | 29            |           | 2         |       | <i>Eriosoma ulmi</i>              |
|  | 130              | 279     | 1790    | 292         | 402          | 160     | 35          | 2323      | 337           | 125       | 11        |       | <i>Hyalopterus pruni</i>          |
|  | 8                | 34      | 16      | 20          | 47           | 18      | 2           | 178       | 16            | 4         |           |       | <i>Hyperomyzus lactucae</i>       |
|  | 4                | 4       | 50      | 16          | 11           | 1       |             | 70        | 25            | 5         | 6         |       | <i>Macrosiphum euphorbiae</i>     |
|  |                  |         | 14      | 4           | 1            | 2       |             | 33        | 1             |           |           |       | <i>Megoura viciae</i>             |
|  | 1674             | 3752    | 9679    | 1220        | 3077         | 3265    | 1036        | 14324     | 6578          | 562       | 89        |       | <i>Metopolophium dirhodum</i>     |
|  | 10               | 26      | 18      | 4           | 5            | 2       |             | 38        | 37            | 20        | 12        |       | <i>Metopolophium festucae</i>     |
|  |                  | 2       | 2       | 2           | 2            |         |             |           |               | 2         | 4         |       | <i>Myzus ascalonicus</i>          |
|  |                  | 2       |         | 2           |              | 1       | 3           |           |               |           |           |       | <i>Myzus certus</i>               |
|  |                  |         | 4       |             |              |         |             |           | 1             | 1         |           |       | <i>Myzus ornatus</i>              |
|  |                  | 8       | 22      | 4           | 3            | 11      | 1           | 38        | 18            | 1         |           |       | <i>Myzus persicae</i> grp.        |
|  | 4                | 14      | 10      | 8           | 7            | 5       |             | 12        | 6             | 6         | 2         |       | <i>Nasonovia ribisnigri</i>       |
|  | 54               | 246     | 374     | 52          | 287          |         |             | 106       | 92            | 28        | 1         |       | <i>Pemphigus</i> spp.             |
|  |                  |         |         |             |              |         |             |           |               |           |           |       | <i>Pentatrachopus fragaefolii</i> |
|  | 176              | 246     | 566     | 415         | 491          | 53      | 21          | 410       | 349           | 43        | 1         |       | <i>Phorodon humuli</i>            |
|  | 16               | 14      | 19      | 8           | 124          |         |             | 18        | 3             | 11        |           |       | <i>Phyllaphis fagi</i>            |
|  | 136              | 90      | 181     | 175         | 197          | 27      | 40          | 78        | 135           | 35        | 11        |       | <i>Rhopalosiphum insertum</i>     |
|  | 82               | 96      | 96      | 34          | 40           | 124     | 121         | 540       | 71            | 70        | 169       |       | <i>Rhopalosiphum maidis</i>       |
|  | 42               | 100     | 290     | 10          | 164          | 577     | 450         | 394       | 71            | 124       | 6         |       | <i>Rhopalosiphum padi</i>         |
|  | 18               | 48      | 200     | 26          | 62           | 10      | 20          | 500       | 211           | 93        | 20        |       | <i>Sitobion avenae</i>            |
|  | 38               | 53      | 110     | 34          | 100          | 11      | 3           | 243       | 303           | 41        | 5         |       | <i>Sitobion fragariae</i>         |



ROTHAMSTED REPORT FOR 1979, PART 2

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

| Species                           | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | Belfast | High Mowthorpe | Preston | Shardlow | Aberystwyth | Broom's Barn | Hereford |
|-----------------------------------|-------|--------|-----------|--------------|-----------|---------|----------------|---------|----------|-------------|--------------|----------|
| <i>Acyrtosiphon pisum</i>         | 34    | 172    | 22        | 7            | 54        | 6       | 715            | 159     | 270      | 28          | 2095         | 300      |
| <i>Amphorophora rubi</i>          | 2     | 8      |           |              |           |         |                |         | 8        |             |              | 2        |
| <i>Aphis fabae</i> grp.           | 1     | 2      | 6         | 5            | 14        | 34      | 1512           | 226     | 2146     | 62          | 8587         | 574      |
| <i>Aphis</i> spp.                 | 3     | 6      | 3         | 5            | 7         | 58      | 313            | 104     | 2426     | 11          | 3000         | 414      |
| <i>Aulacorthum solani</i>         |       |        | 2         |              |           |         |                |         |          |             |              |          |
| <i>Brachycaudus helichrysi</i>    | 14    | 8      | 20        | 2            | 5         | 5       | 85             | 230     | 576      | 57          | 670          | 94       |
| <i>Brevicoryne brassicae</i>      |       |        |           |              |           |         |                |         |          |             | 321          | 6        |
| <i>Cavariella aegopodii</i>       | 15    | 64     | 58        | 2            | 57        | 22      | 329            | 163     | 344      | 2           | 315          | 34       |
| <i>Cinara</i> spp.                | 1     | 14     | 10        | 67           | 16        | 1       | 8              | 4       | 32       | 18          | 1            | 14       |
| <i>Drepanosiphum platanoidis</i>  | 13    | 15     | 10        | 16           | 10        | 3       | 37             | 187     | 178      | 9           | 65           | 18       |
| <i>Dysaphis plantaginea</i>       |       |        |           |              |           |         |                |         |          | 13          |              | 2        |
| <i>Elatobium abietinum</i>        |       |        |           |              |           |         |                |         |          | 3           |              |          |
| <i>Eriosoma ulmi</i>              | 3     | 39     | 1         | 1            | 7         | 3       | 18             |         | 2        |             | 52           | 10       |
| <i>Hyalopterus pruni</i>          | 2     | 58     | 5         |              | 8         | 5       | 236            | 139     | 1410     | 29          | 3236         | 244      |
| <i>Hyperomyzus lactucae</i>       | 2     | 10     | 8         | 1            | 9         | 6       | 33             | 8       | 142      | 9           | 338          | 48       |
| <i>Macrosiphum euphorbiae</i>     | 4     | 19     | 22        | 6            | 6         | 36      | 6              | 42      | 124      | 7           | 88           | 76       |
| <i>Megoura viciae</i>             |       | 1      |           | 3            | 3         | 7       |                | 2       |          | 1           |              |          |
| <i>Metopolophium dirhodum</i>     | 109   | 1255   | 3017      | 668          | 1584      | 709     | 14796          | 2590    | 51726    | 355         | 183949       | 4978     |
| <i>Metopolophium festucae</i>     |       | 2      | 6         | 3            | 4         | 16      | 85             | 27      | 16       | 10          | 136          | 16       |
| <i>Myzus ascalonicus</i>          |       |        | 1         |              |           |         |                |         |          | 3           |              |          |
| <i>Myzus certus</i>               |       |        |           |              | 1         |         | 2              | 5       | 4        | 3           |              |          |
| <i>Myzus ornatus</i>              |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Myzus persicae</i> grp.        |       | 14     | 6         | 1            | 1         | 1       | 46             | 42      | 232      | 2           | 432          | 18       |
| <i>Nasonovia ribisnigri</i>       | 1     |        | 1         |              |           | 2       | 23             | 2       | 8        |             | 83           | 28       |
| <i>Pemphigus</i> spp.             |       | 3      | 4         | 1            | 8         | 2       | 4              | 61      | 216      | 3           | 142          | 128      |
| <i>Pentatrichopus fragaefolii</i> |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Phorodon humuli</i>            |       | 1      |           |              | 1         |         | 30             | 5       | 272      |             | 426          | 56       |
| <i>Phyllaphis fagi</i>            |       | 4      |           | 1            |           |         |                | 2       |          |             | 4            |          |
| <i>Rhopalosiphum insertum</i>     | 21    | 164    | 368       | 108          | 2406      | 1095    | 2369           | 2849    | 2048     | 529         | 795          | 784      |
| <i>Rhopalosiphum maidis</i>       | 20    | 60     | 6         | 2            | 25        | 34      | 262            | 55      | 92       | 17          | 921          | 20       |
| <i>Rhopalosiphum padi</i>         | 13    | 324    | 457       | 36           | 261       | 66      | 2516           | 117     | 810      | 132         | 16263        | 332      |
| <i>Sitobion avenae</i>            | 27    | 128    | 364       | 14           | 8         | 79      | 360            | 103     | 168      | 160         | 2102         | 76       |
| <i>Sitobion fragariae</i>         | 1     | 5      | 38        | 7            | 24        | 1       | 357            | 93      | 1072     | 12          | 2007         | 438      |

ROTHAMSTED INSECT SURVEY

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of aphids of economic, or other, interest reported in the Weekly Bulletin 1979  
16 July to 12 August 1979

| Sites            |         |         |             |              |         |                       |           |               |           |           | Species                           |                                  |
|------------------|---------|---------|-------------|--------------|---------|-----------------------|-----------|---------------|-----------|-----------|-----------------------------------|----------------------------------|
| Rothamsted Tower | Writtle | Rainham | Long Ashton | Silwood Park | Zeeland | N.E. Polder           | Wye, Kent | Littlehampton | Starcross | Rosewarne |                                   |                                  |
| 240              | 392     | 184     | 86          | 96           | 420     | Records not available | 678       | 294           | 167       | 6         | <i>Acyrtosiphon pisum</i>         |                                  |
|                  | 4       |         |             | 18           |         |                       | 418       | 305           | 138       | 4         | <i>Amphorophora rubi</i>          |                                  |
| 698              | 1354    | 894     | 248         | 348          | 747     |                       | 1934      | 285           | 86        | 15        | <i>Aphis fabae</i> grp.           |                                  |
| 1296             | 2570    | 2370    | 104         | 751          |         |                       |           | 5             | 1         | 2         | <i>Aphis</i> spp.                 |                                  |
|                  |         |         |             | 4            |         |                       |           | 166           | 133       | 36        | 21                                | <i>Aulacorthum solani</i>        |
| 144              | 112     | 272     | 38          | 78           | 31      |                       |           |               | 22        | 1         | 1                                 | <i>Brachycaudus helichrysi</i>   |
|                  | 8       | 26      |             | 2            | 2       |                       |           |               | 22        | 1         | 1                                 | <i>Brevicoryne brassicae</i>     |
| 116              | 50      | 108     | 4           | 19           | 108     |                       |           | 52            | 49        | 12        | 3                                 | <i>Cavariella aegopodii</i>      |
|                  |         | 20      | 4           | 20           |         |                       |           |               | 5         | 2         | 1                                 | <i>Cinara</i> spp.               |
| 32               | 10      | 18      | 12          | 22           |         |                       |           | 24            | 19        | 24        | 5                                 | <i>Drepanosiphum platanoidis</i> |
|                  |         | 4       | 2           | 1            |         |                       |           |               | 3         |           |                                   | <i>Dysaphis plantaginea</i>      |
|                  |         |         |             |              |         |                       |           |               |           |           |                                   | <i>Elatobium abietinum</i>       |
|                  | 2       | 38      | 6           | 6            |         |                       |           | 18            | 2         |           |                                   | <i>Eriosoma ulmi</i>             |
| 1562             | 2474    | 7346    | 348         | 1112         | 511     |                       |           | 2834          | 725       | 127       | 54                                | <i>Hyalopterus pruni</i>         |
| 150              | 70      | 308     | 14          | 95           | 47      |                       |           | 170           | 98        | 38        | 8                                 | <i>Hyperomyzus lactucae</i>      |
| 50               | 16      | 136     | 6           | 46           | 8       |                       |           | 78            | 108       | 25        | 18                                | <i>Macrosiphum euphorbiae</i>    |
|                  | 8       | 22      | 2           |              |         |                       |           | 18            |           |           |                                   | <i>Megoura viciae</i>            |
| 16692            | 17326   | 22810   | 360         | 4246         | 13071   |                       |           | 20116         | 6017      | 1423      | 322                               | <i>Metopolophium dirhodum</i>    |
| 52               |         | 18      | 10          | 3            | 5       |                       |           | 112           | 14        | 14        | 24                                | <i>Metopolophium festucae</i>    |
|                  |         |         |             |              | 1       |                       |           |               |           |           |                                   | <i>Myzus ascalonicus</i>         |
|                  | 4       |         |             |              | 17      |                       |           | 6             | 2         | 1         | 2                                 | <i>Myzus certus</i>              |
|                  |         |         |             | 2            |         |                       |           | 3             |           | 1         | <i>Myzus ornatus</i>              |                                  |
| 108              | 102     | 74      | 8           | 22           | 1920    |                       | 260       | 129           | 16        | 11        | <i>Myzus persicae</i> grp.        |                                  |
| 24               | 6       | 8       | 2           | 21           | 8       |                       | 8         | 8             |           | 7         | <i>Nasonovia ribisnigri</i>       |                                  |
| 112              | 108     | 208     | 22          | 114          |         |                       | 66        | 142           | 17        | 2         | <i>Pemphigus</i> spp.             |                                  |
|                  |         |         |             |              |         |                       |           |               |           |           | <i>Pentatrichopus fragaefolii</i> |                                  |
| 228              | 190     | 948     | 60          | 196          | 100     |                       | 482       | 188           | 19        |           | <i>Phorodon humuli</i>            |                                  |
|                  | 8       | 2       |             | 9            |         |                       | 4         |               | 3         |           | <i>Phyllaphis fagi</i>            |                                  |
| 494              | 238     | 776     | 152         | 533          | 343     |                       | 146       | 188           | 157       | 67        | <i>Rhopalosiphum insertum</i>     |                                  |
| 96               | 152     | 374     | 4           | 34           | 301     |                       | 254       | 81            | 36        | 46        | <i>Rhopalosiphum maidis</i>       |                                  |
| 2054             | 3474    | 3980    | 20          | 559          | 6723    |                       | 2396      | 1549          | 287       | 37        | <i>Rhopalosiphum padi</i>         |                                  |
| 344              | 618     | 1442    | 90          | 373          | 150     |                       | 1300      | 505           | 417       | 180       | <i>Sitobion avenae</i>            |                                  |
| 632              | 320     | 462     | 36          | 356          | 137     |                       | 374       | 253           | 280       | 43        | <i>Sitobion fragariae</i>         |                                  |

ROTHAMSTED REPORT FOR 1979, PART 2

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

| Species                           | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | Belfast | High Mowthorpe | Preston | Shardlow | Aberystwyth | Broom's Barn | Hereford |
|-----------------------------------|-------|--------|-----------|--------------|-----------|---------|----------------|---------|----------|-------------|--------------|----------|
| <i>Acyrtosiphon pisum</i>         | 15    | 37     | 11        | 9            | 19        | 27      | 11             | 1       | 12       | 15          |              | 99       |
| <i>Amphorophora rubi</i>          | 7     | 16     | 2         |              |           |         |                |         |          |             |              |          |
| <i>Aphis fabae</i> grp.           | 20    | 29     | 35        | 29           | 106       | 21      | 340            | 62      | 138      | 13          | 10           | 56       |
| <i>Aphis</i> spp.                 | 9     | 16     | 6         | 5            | 21        | 28      | 78             | 20      | 146      | 4           | 8            | 21       |
| <i>Aulacorthum solani</i>         |       |        | 2         |              |           | 1       |                |         |          |             |              |          |
| <i>Brachycaudus helichrysi</i>    | 7     | 18     | 21        | 2            | 9         | 6       | 3              | 21      | 22       | 13          | 12           | 17       |
| <i>Brevicoryne brassicae</i>      |       |        |           |              |           |         |                |         |          |             | 11           |          |
| <i>Cavariella aegopodii</i>       | 44    | 37     | 5         | 3            | 6         | 19      | 47             | 8       | 12       |             | 3            | 2        |
| <i>Cinara</i> spp.                |       | 6      | 8         | 2            | 3         | 3       | 1              |         | 4        | 2           |              |          |
| <i>Drepanosiphum platanoidis</i>  | 44    | 72     | 34        | 18           | 109       | 34      | 107            | 410     | 90       | 23          | 127          | 9        |
| <i>Dysaphis plantaginea</i>       |       |        |           |              |           |         |                |         |          | 6           | 1            |          |
| <i>Elatobium abietinum</i>        |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Eriosoma ulmi</i>              |       |        |           |              |           |         |                |         |          | 1           | 9            |          |
| <i>Hyalopterus pruni</i>          | 2     | 87     | 4         | 2            | 7         | 13      | 42             | 28      | 86       | 2           | 52           | 16       |
| <i>Hyperomyzus lactucae</i>       | 2     | 2      | 2         |              | 3         |         | 1              |         |          |             |              |          |
| <i>Macrosiphum euphorbiae</i>     | 6     | 71     | 34        | 7            | 4         | 7       | 1              | 2       |          | 2           | 1            | 8        |
| <i>Megoura viciae</i>             |       |        |           |              |           | 7       |                |         |          |             |              |          |
| <i>Metopolophium dirhodum</i>     | 105   | 372    | 533       | 55           | 693       | 7       | 175            | 3       | 34       | 15          | 1            | 24       |
| <i>Metopolophium festucae</i>     | 3     |        | 11        | 1            | 3         |         |                |         |          | 1           |              |          |
| <i>Myzus ascalonicus</i>          |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Myzus certus</i>               |       | 1      | 1         |              |           |         |                |         | 2        | 1           |              |          |
| <i>Myzus ornatus</i>              |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Myzus persicae</i> grp.        | 2     | 30     | 3         | 3            | 2         | 1       | 7              | 6       | 6        |             | 1            | 1        |
| <i>Nasonovia ribisnigri</i>       | 1     | 1      |           |              |           |         |                |         | 2        |             |              |          |
| <i>Pemphigus</i> spp.             | 13    | 9      | 5         | 14           | 10        |         | 6              | 36      | 56       | 28          | 21           | 31       |
| <i>Pentatrachopus fragaefolii</i> |       |        |           |              |           |         | 1              |         | 2        |             |              |          |
| <i>Phorodon humuli</i>            |       | 2      | 2         |              | 10        | 1       | 1              |         |          |             | 2            | 93       |
| <i>Phyllaphis fagi</i>            |       |        |           |              | 2         |         |                | 1       |          |             |              |          |
| <i>Rhopalosiphum insertum</i>     | 137   | 221    | 360       | 147          | 928       | 245     | 347            | 274     | 102      | 239         | 11           | 81       |
| <i>Rhopalosiphum maidis</i>       | 7     | 8      | 3         |              | 7         |         | 1              | 1       |          | 1           | 4            | 3        |
| <i>Rhopalosiphum padi</i>         | 1135  | 2921   | 1281      | 593          | 597       | 37      | 854            | 351     | 250      | 134         | 190          | 283      |
| <i>Sitobion avenae</i>            | 119   | 221    | 398       | 10           | 31        | 5       | 20             | 4       | 16       | 22          | 5            | 6        |
| <i>Sitobion fragariae</i>         | 7     | 22     | 6         | 4            | 33        | 1       | 13             | 6       | 2        | 4           |              | 12       |

ROTHAMSTED INSECT SURVEY

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of aphids of economic, or other, interest reported in the Weekly Bulletin 1979  
13 August to 9 September 1979

|  | Rothamsted Tower | Writtle | Rainham | Long Ashton | Silwood Park | Zeeland | N.E. Polder | Wye, Kent | Littlehampton | Starcross | Rosewarne | Sites | Species                           |
|--|------------------|---------|---------|-------------|--------------|---------|-------------|-----------|---------------|-----------|-----------|-------|-----------------------------------|
|  | 2                |         | 2       | 12          | 1            |         |             | 2         | 4             | 15        |           |       | <i>Acyrtosiphon pisum</i>         |
|  | 4                | 4       | 2       | 8           | 7            | 10      |             |           | 6             | 16        |           |       | <i>Amphorophora rubi</i>          |
|  | 14               | 2       | 20      | 6           | 9            |         |             | 2         | 8             | 9         | 4         |       | <i>Aphis fabae</i> grp.           |
|  |                  |         |         |             |              |         |             |           |               |           |           |       | <i>Aphis</i> spp.                 |
|  | 106              | 2       |         | 2           | 10           | 1       |             | 8         | 16            | 3         | 2         |       | <i>Aulacorthum solani</i>         |
|  |                  | 6       |         |             |              | 1       |             |           | 2             | 4         |           |       | <i>Brachycaudus helichrysi</i>    |
|  | 2                |         |         |             |              | 4       |             |           | 2             |           | 1         |       | <i>Brevicoryne brassicae</i>      |
|  |                  |         |         |             | 1            |         |             |           |               |           |           |       | <i>Cavariella aegopodii</i>       |
|  | 68               | 22      | 2       | 30          | 184          | 1       |             | 22        | 23            | 2         | 2         |       | <i>Cinara</i> spp.                |
|  |                  |         |         |             | 1            |         |             |           |               |           |           |       | <i>Drepanosiphum platanoidis</i>  |
|  |                  |         |         |             |              |         |             |           |               |           |           |       | <i>Dysaphis plantaginea</i>       |
|  |                  |         |         |             |              |         |             |           |               |           |           |       | <i>Elatobium abietinum</i>        |
|  | 52               | 2       | 2       |             |              |         |             | 2         |               |           |           |       | <i>Eriosoma ulmi</i>              |
|  | 2                | 22      | 58      | 8           | 27           | 319     |             | 122       | 34            | 18        | 2         |       | <i>Hyalopterus pruni</i>          |
|  | 2                |         | 2       | 2           | 1            | 1       |             |           | 1             | 2         |           |       | <i>Hyperomyzus lactucae</i>       |
|  |                  |         |         |             |              |         |             |           |               |           |           |       | <i>Macrosiphum euphorbiae</i>     |
|  |                  | 2       |         |             |              |         |             | 2         |               |           |           |       | <i>Megoura viciae</i>             |
|  |                  | 2       | 4       | 2           | 3            | 8       |             |           | 1             | 2         |           |       | <i>Metopolophium dirhodum</i>     |
|  |                  |         |         |             |              |         |             |           |               | 2         |           |       | <i>Metopolophium festucae</i>     |
|  |                  |         |         |             |              |         |             |           |               |           |           |       | <i>Myzus ascalonicus</i>          |
|  |                  |         |         |             |              | 2       |             |           |               |           |           |       | <i>Myzus certus</i>               |
|  |                  |         |         |             |              | 156     |             |           |               |           |           |       | <i>Myzus ornatus</i>              |
|  |                  |         |         | 2           | 2            |         |             |           | 2             | 1         |           |       | <i>Myzus persicae</i> grp.        |
|  | 26               | 6       |         | 2           | 1            |         |             |           |               |           |           |       | <i>Nasonovia ribisnigri</i>       |
|  |                  |         |         | 12          | 86           |         |             | 28        | 25            | 14        | 8         |       | <i>Pemphigus</i> spp.             |
|  | 2                |         |         |             | 3            |         |             | 24        |               | 1         |           |       | <i>Pentatrachopus fragaefolii</i> |
|  |                  |         |         |             |              |         |             |           |               |           |           |       | <i>Phorodon humuli</i>            |
|  | 52               | 16      | 26      | 20          | 101          | 72      |             | 38        | 89            | 82        | 39        |       | <i>Phyllaphis fagi</i>            |
|  | 6                |         | 2       |             |              | 5       |             | 4         | 4             | 1         | 1         |       | <i>Rhopalosiphum insertum</i>     |
|  | 128              | 122     | 50      | 176         | 223          | 581     |             | 278       | 287           | 124       | 35        |       | <i>Rhopalosiphum maidis</i>       |
|  | 10               | 10      | 4       | 2           | 14           | 8       |             | 20        | 15            | 11        | 19        |       | <i>Rhopalosiphum padi</i>         |
|  | 2                |         | 2       | 6           | 2            |         |             |           | 2             | 1         | 1         |       | <i>Sitobion avenae</i>            |
|  |                  |         |         |             |              |         |             |           |               |           |           |       | <i>Sitobion fragariae</i>         |

ROTHAMSTED REPORT FOR 1979, PART:

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

| Sites                             | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | Belfast | High Mowthorpe | Preston | Shardlow | Aberystwyth | Broom's Barn | Hereford |
|-----------------------------------|-------|--------|-----------|--------------|-----------|---------|----------------|---------|----------|-------------|--------------|----------|
| Species                           |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Acyrtosiphon pisum</i>         |       |        |           |              |           |         |                |         |          | 3           |              |          |
| <i>Amphorophora rubi</i>          |       | 10     |           |              |           |         |                |         |          |             |              |          |
| <i>Aphis fabae</i> grp.           | 14    | 16     | 9         | 5            | 36        | 6       |                | 3       |          | 4           | 6            | 8        |
| <i>Aphis</i> spp.                 | 3     | 51     | 2         |              | 15        | 4       |                | 7       |          | 4           | 1            | 5        |
| <i>Aulacorthum solani</i>         |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Brachycaudus helichrysi</i>    | 33    | 14     | 12        | 1            | 24        | 15      | 20             | 15      | 46       | 22          | 71           | 41       |
| <i>Brevicoryne brassicae</i>      |       |        |           |              |           |         |                |         |          |             | 1            |          |
| <i>Cavariella aegopodii</i>       | 161   | 36     | 10        | 1            | 2         | 2       |                | 3       |          | 1           | 1            | 3        |
| <i>Cinara</i> spp.                | 9     | 3      | 1         |              | 6         | 5       | 3              | 2       |          |             |              |          |
| <i>Drepanosiphum platanoidis</i>  | 41    | 92     | 66        |              | 41        | 28      | 73             | 104     | 150      | 33          | 8            | 13       |
| <i>Dysaphis plantaginea</i>       |       |        |           | 1            |           |         |                | 1       |          | 22          | 18           | 1        |
| <i>Elatobium abietinum</i>        |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Eriosoma ulmi</i>              | 2     | 2      | 3         |              |           | 2       | 12             | 1       | 2        | 4           | 5            | 9        |
| <i>Hyalopterus pruni</i>          |       | 136    | 1         |              | 1         | 6       | 2              | 6       | 10       | 2           | 6            | 1        |
| <i>Hyperomyzus lactucae</i>       | 4     | 4      |           |              |           |         | 1              |         |          | 4           | 2            | 2        |
| <i>Macrosiphum euphorbiae</i>     | 10    | 44     | 3         | 1            | 2         | 1       |                | 1       |          | 2           | 3            | 5        |
| <i>Megoura viciae</i>             |       |        |           |              |           |         |                |         |          | 1           |              |          |
| <i>Metopolophium dirhodum</i>     | 69    | 37     | 4         | 5            | 9         | 5       |                | 4       | 2        | 5           | 2            | 2        |
| <i>Metopolophium festucae</i>     | 4     |        | 2         |              |           |         |                |         |          | 3           |              |          |
| <i>Myzus ascalonicus</i>          |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Myzus certus</i>               |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Myzus ornatus</i>              |       |        | 1         |              |           |         |                |         |          |             |              |          |
| <i>Myzus persicae</i> grp.        |       | 23     | 1         | 1            | 1         |         | 1              |         | 2        | 7           | 2            | 5        |
| <i>Nasonovia ribisnigri</i>       | 5     |        | 2         |              |           |         |                | 1       |          | 6           |              | 3        |
| <i>Pemphigus</i> spp.             | 185   | 49     | 41        | 18           | 31        | 16      | 16             | 339     | 202      | 53          | 847          | 96       |
| <i>Pentatrichopus fragaefolii</i> |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Phorodon humuli</i>            |       |        |           |              |           |         |                |         | 12       |             | 1            | 927      |
| <i>Phyllaphis fagi</i>            |       |        | 3         |              |           |         |                | 1       |          |             |              |          |
| <i>Rhopalosiphum insertum</i>     | 1821  | 971    | 1232      | 163          | 1184      | 2386    | 557            | 3292    | 995      | 3024        | 26           | 458      |
| <i>Rhopalosiphum maidis</i>       |       |        |           | 1            |           | 1       | 1              |         |          |             | 1            |          |
| <i>Rhopalosiphum padi</i>         | 8624  | 4931   | 4355      | 773          | 885       | 546     | 352            | 2568    | 2599     | 618         | 881          | 2887     |
| <i>Sitobion avenae</i>            | 15    | 2      | 10        | 1            | 4         |         |                | 1       |          | 7           |              | 1        |
| <i>Sitobion fragariae</i>         | 22    | 24     |           | 1            |           |         |                | 1       | 2        | 2           | 1            | 3        |

## ROTHAMSTED INSECT SURVEY

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of aphids of economic, or other, interest reported in the Weekly Bulletin 1979  
10 September to 7 October 1979

|                  |         |         |             |              |         |                       |           |               |           | Sites     |                                   |
|------------------|---------|---------|-------------|--------------|---------|-----------------------|-----------|---------------|-----------|-----------|-----------------------------------|
| Rothamsted Tower | Writtle | Rainham | Long Ashton | Silwood Park | Zeeland | N.E. Polder           | Wye, Kent | Littlehampton | Starcross | Rosewarne | Species                           |
| 1                |         |         | 1           |              |         |                       |           |               | 2         |           | <i>Acyrtosiphon pisum</i>         |
| 1                | 2       |         | 1           | 2            | 9       |                       | 5         | 4             |           |           | <i>Amphorophora rubi</i>          |
| 3                | 8       | 11      | 2           | 4            |         |                       | 9         | 9             | 3         |           | <i>Aphis fabae</i> grp.           |
|                  |         |         |             |              |         |                       |           |               | 2         | 2         | <i>Aphis</i> spp.                 |
| 51               | 23      | 12      | 23          | 27           | 14      |                       | 45        | 67            | 26        | 6         | <i>Aulacorthum solani</i>         |
| 1                | 10      | 6       |             | 3            |         |                       | 2         | 1             | 9         |           | <i>Brachycaudus helichrysi</i>    |
|                  |         | 3       |             |              | 4       |                       | 1         | 2             | 1         |           | <i>Brevicoryne brassicae</i>      |
|                  |         |         |             |              |         |                       |           |               |           |           | <i>Cavariella aegopodii</i>       |
| 241              | 63      | 125     | 23          | 618          |         |                       | 51        | 108           | 13        | 59        | <i>Cinara</i> spp.                |
| 1                |         | 8       | 1           | 5            | 1       |                       | 1         | 8             |           | 2         | <i>Drepanosiphum platanoidis</i>  |
|                  |         |         |             |              |         |                       |           |               |           |           | <i>Dysaphis plantaginea</i>       |
| 2                | 3       | 2       | 1           | 2            |         |                       | 2         | 1             |           |           | <i>Elatobium abietinum</i>        |
| 2                | 7       | 6       |             | 6            | 239     |                       | 14        |               | 4         |           | <i>Eriosoma ulmi</i>              |
| 3                |         | 10      | 2           | 1            | 3       |                       | 5         | 1             | 8         |           | <i>Hyalopectus pruni</i>          |
|                  |         |         |             | 4            | 2       |                       |           | 1             |           |           | <i>Hyperomyzus lactucae</i>       |
|                  | 1       | 7       | 4           | 1            | 1       |                       | 3         | 1             | 2         |           | <i>Macrosiphum euphorbiae</i>     |
|                  |         |         |             |              |         | Records not available |           |               |           |           | <i>Megoura viciae</i>             |
| 1                |         |         |             | 1            |         |                       |           |               |           |           | <i>Metopolophium dirhodum</i>     |
|                  |         |         |             |              |         |                       |           |               |           |           | <i>Metopolophium festucae</i>     |
|                  |         |         |             |              |         |                       |           | 1             |           |           | <i>Myzus ascalonicus</i>          |
| 1                | 4       | 3       | 4           |              | 1       |                       | 7         | 9             | 6         | 4         | <i>Myzus certus</i>               |
| 2                | 2       | 1       | 2           | 1            |         |                       | 2         | 4             |           |           | <i>Myzus ornatus</i>              |
| 89               | 155     | 10492   | 144         | 84           |         |                       | 75        | 85            | 76        | 1         | <i>Myzus persicae</i> grp.        |
|                  |         |         |             |              |         |                       |           |               |           |           | <i>Nasonovia ribisnigri</i>       |
|                  | 1       | 17      |             | 9            | 4       |                       | 867       | 11            |           |           | <i>Pemphigus</i> spp.             |
|                  |         |         |             |              |         |                       |           |               |           |           | <i>Pentatrachopus fragaefolii</i> |
| 112              | 72      | 87      | 180         | 235          | 1706    |                       | 660       | 263           | 263       | 139       | <i>Phorodon humuli</i>            |
|                  |         | 1       |             |              | 1       |                       |           |               |           | 1         | <i>Phyllaphis fagi</i>            |
| 752              | 806     | 1969    | 2401        | 1221         | 1124    |                       | 2686      | 1234          | 1107      | 280       | <i>Rhopalosiphum insertum</i>     |
| 2                | 2       |         | 1           | 1            | 1       |                       | 2         | 2             |           |           | <i>Rhopalosiphum maidis</i>       |
| 1                |         | 1       | 2           |              | 1       |                       |           |               |           |           | <i>Rhopalosiphum padi</i>         |
|                  |         |         |             |              |         |                       |           |               |           |           | <i>Sitobion avenae</i>            |
|                  |         |         |             |              |         |                       |           |               |           |           | <i>Sitobion fragariae</i>         |

ROTHAMSTED REPORT FOR 1979, PART 2

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

| Species                           | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | Belfast | High Mowthorpe | Preston | Shardlow | Aberystwyth | Broom's Barn | Hereford |
|-----------------------------------|-------|--------|-----------|--------------|-----------|---------|----------------|---------|----------|-------------|--------------|----------|
| <i>Acyrtosiphon pisum</i>         |       |        |           |              | 2         |         |                |         |          |             |              |          |
| <i>Amphorophora rubi</i>          |       | 30     |           |              | 4         | 1       |                | 2       |          | 1           | 10           |          |
| <i>Aphis fabae</i> grp.           |       |        |           |              | 18        | 1       |                | 2       |          |             | 3            | 3        |
| <i>Aphis</i> spp.                 | 2     | 28     |           |              |           |         |                | 2       | 2        |             |              |          |
| <i>Aulacorthum solani</i>         |       |        | 1         | 1            |           |         |                |         |          |             |              |          |
| <i>Brachycaudus helichrysi</i>    | 2     | 12     |           | 2            | 6         | 4       | 6              |         | 3        | 2           | 8            |          |
| <i>Brevicoryne brassicae</i>      |       |        |           |              |           |         |                | 1       |          |             |              |          |
| <i>Cavariella aegopodii</i>       | 3     | 28     |           |              | 13        | 3       | 2              | 4       | 1        |             | 6            |          |
| <i>Cinara</i> spp.                | 3     |        |           |              |           |         |                |         |          |             |              |          |
| <i>Drepanosiphum platanoidis</i>  | 4     | 85     | 40        | 3            | 23        | 20      | 51             | 108     | 262      | 30          | 38           | 16       |
| <i>Dysaphis plantaginea</i>       |       |        |           |              |           |         |                |         | 6        | 12          | 4            |          |
| <i>Elatobium abietinum</i>        |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Eriosoma ulmi</i>              |       | 1      |           |              | 1         |         |                |         | 2        | 4           | 4            | 35       |
| <i>Hyalopterus pruni</i>          |       | 16     |           |              | 2         |         |                |         |          |             | 5            |          |
| <i>Hyperomyzus lactucae</i>       |       | 14     |           |              |           |         |                | 2       | 6        | 4           | 4            | 6        |
| <i>Macrosiphum euphorbiae</i>     | 2     | 19     | 1         | 1            | 3         | 1       |                |         |          |             |              | 2        |
| <i>Megoura viciae</i>             |       |        |           |              |           | 1       |                |         |          |             |              |          |
| <i>Metopolophium dirhodum</i>     | 25    | 44     |           | 4            | 26        | 2       |                | 11      | 1        | 4           | 2            | 6        |
| <i>Metopolophium festucae</i>     |       |        |           |              |           | 1       |                |         |          | 2           |              | 2        |
| <i>Myzus ascalonicus</i>          |       |        |           |              |           | 1       |                |         |          |             | 1            | 1        |
| <i>Myzus certus</i>               |       | 4      |           |              |           |         |                |         |          |             |              |          |
| <i>Myzus ornatus</i>              |       |        |           |              |           |         |                |         |          | 1           |              |          |
| <i>Myzus persicae</i> grp.        | 1     | 30     | 1         |              | 2         | 1       | 5              | 1       | 3        | 2           | 13           | 13       |
| <i>Nasonovia ribisnigri</i>       | 1     | 1      |           |              |           |         |                |         |          | 20          |              | 3        |
| <i>Pemphigus</i> spp.             | 53    | 69     | 9         | 28           | 53        | 25      | 31             | 228     | 311      | 4           | 235          | 102      |
| <i>Pentatrichopus fragaefolii</i> |       |        |           |              |           |         |                |         |          |             |              |          |
| <i>Phorodon humuli</i>            |       |        |           |              |           |         |                |         |          |             |              | 17       |
| <i>Phyllaphis fagi</i>            | 1     | 8      | 5         |              |           |         |                |         |          |             |              |          |
| <i>Rhopalosiphum insertum</i>     | 804   | 1778   | 673       | 414          | 1602      | 1732    | 861            | 1830    | 1559     | 5267        | 142          | 844      |
| <i>Rhopalosiphum maidis</i>       |       |        |           |              |           | 4       |                |         |          |             | 23           |          |
| <i>Rhopalosiphum padi</i>         | 1528  | 7480   | 1896      | 511          | 1614      | 844     | 500            | 2903    | 4116     | 1069        | 1043         | 2576     |
| <i>Sitobion avenae</i>            | 1     |        | 1         | 1            |           | 1       |                |         |          | 5           |              | 3        |
| <i>Sitobion fragariae</i>         | 26    | 16     |           | 5            | 11        | 1       | 1              | 6       | 2        | 9           |              | 5        |

## ROTHAMSTED INSECT SURVEY

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of aphids of economic, or other, interest reported in the Weekly Bulletin 1979  
8 October 1979 to 4 November 1979

|     | Rothamsted Tower | Writtle | Rainham | Long Ashton | Silwood Park | Zeeland | N.E. Polder | Wye, Kent | Littlehampton | Starcross | Rosewarne | Sites | Species                           |
|-----|------------------|---------|---------|-------------|--------------|---------|-------------|-----------|---------------|-----------|-----------|-------|-----------------------------------|
|     |                  |         | 1       |             |              |         |             |           |               |           |           |       | <i>Acyrtosiphon pisum</i>         |
|     |                  | 1       | 2       |             | 1            | 57      |             | 7         | 1             |           |           |       | <i>Amphorophora rubi</i>          |
|     |                  | 4       | 12      | 2           | 4            |         |             | 15        | 13            |           | 1         |       | <i>Aphis fabae</i> grp.           |
|     |                  |         | 2       |             |              |         |             |           |               |           |           |       | <i>Aphis</i> spp.                 |
| 7   |                  | 6       | 24      | 6           | 4            | 5       |             | 12        | 4             | 2         | 1         |       | <i>Aulacorthum solani</i>         |
|     |                  | 10      | 4       | 1           | 3            |         |             | 8         | 1             | 7         | 1         |       | <i>Brachycaudus helichrysi</i>    |
|     |                  | 2       | 3       | 3           | 3            | 12      |             | 3         |               |           |           |       | <i>Brevicoryne brassicae</i>      |
|     |                  |         |         |             |              |         |             |           |               |           |           |       | <i>Cavariella aegopodii</i>       |
| 101 |                  | 88      | 39      | 20          | 163          |         |             | 41        | 22            | 3         | 20        |       | <i>Cinara</i> spp.                |
|     |                  | 2       |         |             | 10           | 3       |             | 4         | 19            | 4         |           |       | <i>Drepanosiphum platanoidis</i>  |
|     |                  |         |         |             |              |         |             |           | 1             |           |           |       | <i>Dysaphis plantaginea</i>       |
|     |                  | 5       | 3       | 5           | 4            |         |             | 9         | 4             | 1         |           |       | <i>Elatobium abietinum</i>        |
|     |                  |         | 11      |             |              | 2       |             |           | 2             |           |           |       | <i>Eriosoma ulmi</i>              |
| 2   |                  | 8       | 15      | 11          | 2            | 9       |             | 7         | 3             | 7         |           |       | <i>Hyalopterus pruni</i>          |
|     |                  |         |         | 2           |              |         |             |           |               | 3         |           |       | <i>Hyperomyzus lactucae</i>       |
|     |                  | 1       | 2       | 9           | 2            |         |             | 4         | 4             | 6         |           |       | <i>Macrosiphum euphorbiae</i>     |
|     |                  |         |         | 1           |              |         |             |           |               |           |           |       | <i>Megoura viciae</i>             |
|     |                  |         | 2       |             |              |         |             |           | 1             |           |           |       | <i>Metopolophium dirhodum</i>     |
|     |                  | 1       |         | 1           |              |         |             | 1         | 1             |           | 1         |       | <i>Metopolophium festucae</i>     |
|     |                  |         |         | 1           |              |         |             |           |               |           |           |       | <i>Myzus ascalonicus</i>          |
| 1   |                  | 8       | 5       | 9           | 1            | 13      |             | 16        | 13            | 6         | 1         |       | <i>Myzus certus</i>               |
|     |                  | 1       | 3       | 1           | 2            | 10      |             | 4         |               | 2         |           |       | <i>Myzus ornatus</i>              |
| 62  |                  | 123     | 1626    | 197         | 113          |         |             | 135       | 70            | 58        | 12        |       | <i>Myzus persicae</i> grp.        |
|     |                  |         |         |             |              |         |             |           |               |           |           |       | <i>Nasonovia ribisnigri</i>       |
|     |                  | 1       | 3       | 1           | 1            |         |             | 5         |               |           |           |       | <i>Pemphigus</i> spp.             |
|     |                  |         | 1       |             |              |         |             |           |               |           |           |       | <i>Pentatrachopus fragaefolii</i> |
|     |                  |         |         |             |              |         |             |           |               |           |           |       | <i>Phorodon humuli</i>            |
| 238 |                  | 250     | 338     | 588         | 543          | 1319    |             | 1233      | 1062          | 740       | 516       |       | <i>Phyllaphis fagi</i>            |
|     |                  | 3       | 2       |             |              | 5       |             | 3         | 5             |           | 1         |       | <i>Rhopalosiphum insertum</i>     |
| 823 |                  | 2212    | 3261    | 2860        | 1615         | 2084    |             | 3521      | 2367          | 4894      | 271       |       | <i>Rhopalosiphum maidis</i>       |
| 2   |                  |         | 5       | 1           | 2            | 2       |             | 4         | 4             |           | 1         |       | <i>Rhopalosiphum padi</i>         |
| 1   |                  | 1       | 4       | 8           | 8            | 3       |             | 7         | 8             | 16        | 3         |       | <i>Sitobion avenae</i>            |
|     |                  |         |         |             |              |         |             |           |               |           |           |       | <i>Sitobion fragariae</i>         |



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TABLE  
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| Pest Species                                        | Year | Inverpolly | Harris | Newton, Elgin | Beinn Eighe | New Deer | Carbost, Skye | Fort Augustus | Rannoch | Dundee | Culzean Castle | Rowardennan | East Craigs | St. Abbs | Auchincruive |
|-----------------------------------------------------|------|------------|--------|---------------|-------------|----------|---------------|---------------|---------|--------|----------------|-------------|-------------|----------|--------------|
| <i>Gortyna micacea</i><br>Rosy Rustic               | 1977 | 25         | 105    | 78            | 115         | 42       | 116           | 26            | 51      | 1      | 11             | 9           | 5           | —        | 5            |
|                                                     | 1978 | 18         | 27     | 37            | 57          | 56       | 195           | 28            | 68      | 0      | 25             | 4           | 3           | 51       | 5            |
| <i>Bupalus piniaria</i><br>Bordered White           | 1977 | 0          | 0      | 0             | 1           | 0        | 0             | 3             | 0       | 1      | 4              | 0           | 0           | —        | 0            |
|                                                     | 1978 | 0          | 0      | 0             | 1           | 0        | 0             | 1             | 0       | 0      | 0              | 0           | 0           | 0        | 0            |
| <i>Panolis flammea</i><br>Pine Beauty               | 1977 | 0          | 0      | 2             | 0           | 0        | 0             | 3             | 1       | 0      | 1              | 0           | 0           | —        | 0            |
|                                                     | 1978 | 0          | 0      | 0             | 1           | 0        | 0             | 2             | 0       | 0      | 2              | 0           | 0           | 0        | 0            |
| <i>Cerapteryx graminis</i><br>Antler Moth           | 1977 | 66         | 232    | 17            | 142         | 13       | 52            | 240           | 114     | 74     | 28             | 35          | 32          | —        | 34           |
|                                                     | 1978 | 25         | 366    | 21            | 95          | 3        | 17            | 99            | 58      | 10     | 11             | 79          | 7           | 6        | 4            |
| <i>Erannis aurantiaria</i><br>Scarce Umber          | 1977 | 18         | 0      | 72            | 2           | 0        | 19            | 80            | 1822    | 6      | 0              | 265         | 0           | —        | 1            |
|                                                     | 1978 | —          | —      | 32            | 9           | 2        | 3             | 311           | 3107    | 13     | 0              | 738         | 0           | 26       | 0            |
| <i>Operophtera fagata</i><br>Northern Winter Moth   | 1977 | 6          | 0      | 3             | 3           | 0        | 0             | 10            | 164     | 0      | 0              | 51          | 0           | —        | 0            |
|                                                     | 1978 | —          | —      | 3             | 3           | 0        | 0             | 8             | 106     | 0      | 0              | 8           | 0           | 5        | 0            |
| <i>Apamea sordens</i><br>Rustic Shoulder-knot       | 1977 | 0          | 0      | 1             | 0           | 2        | 0             | 1             | 0       | 1      | 0              | 0           | 14          | —        | 2            |
|                                                     | 1978 | 0          | 0      | 0             | 0           | 1        | 0             | 0             | 0       | 0      | 0              | 0           | 9           | 15       | 1            |
| <i>Gortyna flavago</i><br>Frosted Orange            | 1977 | 0          | 0      | 20            | 0           | 0        | 0             | 0             | 0       | 0      | 0              | 0           | 0           | —        | 0            |
|                                                     | 1978 | 0          | 0      | 9             | 0           | 0        | 0             | 0             | 0       | 0      | 2              | 0           | 0           | 0        | 0            |
| <i>Mamestra brassicae</i><br>Cabbage Moth           | 1977 | 0          | 0      | 2             | 0           | 1        | 0             | 2             | 0       | 18     | 0              | 0           | 3           | —        | 0            |
|                                                     | 1978 | 0          | 0      | 0             | 0           | 0        | 0             | 0             | 0       | 12     | 0              | 0           | 7           | 0        | 0            |
| <i>Noctua pronuba</i><br>Large Yellow Underwing     | 1977 | 4          | 5      | 32            | 0           | 471      | 0             | 3             | 0       | 11     | 23             | 2           | 1           | —        | 17           |
|                                                     | 1978 | 12         | 3      | 31            | 2           | 114      | 2             | 1             | 0       | 8      | 37             | 4           | 7           | 5        | 11           |
| <i>Diataraxia oleracea</i><br>Bright-line Brown-eye | 1977 | 23         | 0      | 14            | 3           | 46       | 3             | 1             | 0       | 10     | 6              | 1           | 7           | —        | 15           |
|                                                     | 1978 | 6          | 0      | 4             | 1           | 5        | 2             | 0             | 0       | 2      | 2              | 0           | 3           | 2        | 2            |
| <i>Euxoa nigricans</i><br>Garden Dart               | 1977 | 0          | 0      | 3             | 0           | 0        | 0             | 0             | 0       | 18     | 0              | 0           | 4           | —        | 0            |
|                                                     | 1978 | 0          | 0      | 0             | 0           | 0        | 0             | 2             | 0       | 8      | 0              | 0           | 3           | 3        | 1            |
| <i>Apamea secalis</i><br>Common Rustic              | 1977 | 11         | 4      | 76            | 10          | 32       | 9             | 34            | 0       | 27     | 19             | 6           | 63          | —        | 56           |
|                                                     | 1978 | 2          | 6      | 75            | 11          | 43       | 23            | 8             | 0       | 12     | 5              | 6           | 36          | 66       | 14           |
| <i>Melanchnra persicariae</i><br>Dot Moth           | 1977 | 0          | 0      | 0             | 0           | 0        | 0             | 0             | 0       | 0      | 0              | 0           | 0           | —        | 0            |
|                                                     | 1978 | 0          | 0      | 0             | 0           | 0        | 0             | 0             | 0       | 0      | 0              | 1           | 0           | 0        | 0            |
| <i>Operophtera brumata</i><br>Winter Moth           | 1977 | 19         | 0      | 15            | 45          | 3        | 17            | 24            | 76      | 6      | 0              | 1079        | 1           | —        | 0            |
|                                                     | 1978 | —          | —      | 11            | 10          | 0        | 9             | 11            | 26      | 5      | 7              | 179         | 1           | 114      | 0            |

ROTHAMSTED INSECT SURVEY

2(a)  
of moths of economic, or other importance for 1977 and 1978

|  | Kielder | Bedlington | Chester le Street | Middleton in Teesdale | Baldersby | Castletown, I.O.M. | Malham Tarn | Acomb | Blacktoft Sands | Spurn Head | Edale | Bangor | Gleadthorpe | Matlock | Year | Pest Species                 |
|--|---------|------------|-------------------|-----------------------|-----------|--------------------|-------------|-------|-----------------|------------|-------|--------|-------------|---------|------|------------------------------|
|  | 296     | 303        | 39                | 263                   | 315       | 306                | 45          | 363   | 330             | 131        | 365   | 35     | 257         | 279     | 1977 | <i>Gortyna micacea</i>       |
|  | 19      | 21         | 3                 | 9                     | 15        | 47                 | 0           | 2     | —               | 31         | 0     | 0      | 82          | 5       | 1978 | Rosy Rustic                  |
|  | 23      | 20         | 11                | 2                     | 61        | 10                 | 0           | 1     | 71              | 21         | 0     | 1      | 44          | 2       |      |                              |
|  | 1       | 0          | 0                 | 0                     | 0         | 0                  | 0           | 1     | —               | 0          | 0     | 0      | 0           | 0       | 1977 | <i>Bupalus piniaria</i>      |
|  | 0       | 0          | 0                 | 0                     | 0         | 0                  | 0           | 1     | 0               | 0          | 0     | 0      | 0           | 0       | 1978 | Bordered White               |
|  | 0       | 0          | 0                 | 0                     | 0         | 0                  | 0           | 0     | —               | 0          | 0     | 0      | 0           | 0       | 1977 | <i>Panolis flammea</i>       |
|  | 0       | 0          | 0                 | 0                     | 0         | 0                  | 0           | 0     | 0               | 0          | 0     | 0      | 0           | 0       | 1978 | Pine Beauty                  |
|  | 20      | 3          | 0                 | 54                    | 6         | 5                  | 23          | 0     | —               | 64         | 111   | 1      | 2           | 2       | 1977 | <i>Cerapteryx graminis</i>   |
|  | 13      | 1          | 0                 | 29                    | 5         | 4                  | 7           | 0     | 1               | 44         | 51    | 0      | 3           | 2       | 1978 | Antler Moth                  |
|  | 28      | 0          | —                 | 4                     | 1         | 0                  | 10          | 0     | —               | 0          | 6     | 0      | 3           | 0       | 1977 | <i>Erannis aurantiaria</i>   |
|  | 85      | 0          | 2                 | 16                    | 0         | 0                  | 8           | 0     | —               | 0          | 8     | 0      | 2           | 2       | 1978 | Scarce Umber                 |
|  | 15      | 0          | —                 | 12                    | 0         | 0                  | 13          | 0     | —               | 0          | 7     | 0      | 4           | 0       | 1977 | <i>Operophtera fagata</i>    |
|  | 52      | 0          | 0                 | 17                    | 0         | 0                  | 2           | 0     | —               | 0          | 5     | 0      | 0           | 0       | 1978 | Northern Winter Moth         |
|  | 1       | 7          | 5                 | 0                     | 2         | 5                  | 1           | 3     | —               | 5          | 4     | 1      | 0           | 3       | 1977 | <i>Apamea sordens</i>        |
|  | 0       | 5          | 3                 | 0                     | 8         | 6                  | 1           | 0     | 16              | 3          | 0     | 2      | 0           | 4       | 1978 | Rustic Shoulder-knot         |
|  | 0       | 0          | 0                 | 0                     | 1         | 1                  | 0           | 0     | —               | 0          | 1     | 0      | 12          | 0       | 1977 | <i>Gortyna flavago</i>       |
|  | 0       | 0          | 0                 | 0                     | 1         | 1                  | 0           | 0     | 8               | 0          | 0     | 0      | 9           | 0       | 1978 | Frosted Orange               |
|  | 1       | 8          | 9                 | 6                     | 3         | 3                  | 0           | 1     | —               | 1          | 1     | 4      | 0           | 7       | 1977 | <i>Mamestra brassicae</i>    |
|  | 1       | 21         | 16                | 0                     | 3         | 3                  | 0           | 8     | 15              | 5          | 1     | 11     | 1           | 9       | 1978 | Cabbage Moth                 |
|  | 2       | 4          | 5                 | 43                    | 7         | 32                 | 32          | 2     | —               | 36         | 24    | 6      | 6           | 10      | 1977 | <i>Noctua pronuba</i>        |
|  | 2       | 5          | 23                | 23                    | 11        | 21                 | 9           | 9     | 4               | 39         | 6     | 9      | 6           | 49      | 1978 | Large Yellow Underwing       |
|  | 0       | 14         | 7                 | 22                    | 39        | 20                 | 0           | 12    | —               | 121        | 46    | 1      | 28          | 7       | 1977 | <i>Diataraxia oleracea</i>   |
|  | 0       | 5          | 3                 | 1                     | 14        | 12                 | 0           | 4     | 53              | 57         | 8     | 3      | 70          | 4       | 1978 | Bright-line Brown-eye        |
|  | 4       | 4          | 2                 | 0                     | 0         | 0                  | 0           | 0     | —               | 2          | 0     | 0      | 2           | 0       | 1977 | <i>Euxoa nigricans</i>       |
|  | 0       | 5          | 11                | 0                     | 2         | 0                  | 0           | 0     | 0               | 0          | 0     | 0      | 1           | 0       | 1978 | Garden Dart                  |
|  | 17      | 153        | 78                | 51                    | 42        | 208                | 1           | 1     | —               | 32         | 45    | 36     | 27          | 48      | 1977 | <i>Apamea secalis</i>        |
|  | 10      | 43         | 22                | 25                    | 54        | 77                 | 1           | 5     | 65              | 24         | 8     | 8      | 26          | 57      | 1978 | Common Rustic                |
|  | 0       | 0          | 0                 | 0                     | 0         | 0                  | 0           | 0     | —               | 1          | 0     | 0      | 0           | 0       | 1977 | <i>Melanchra persicariae</i> |
|  | 0       | 0          | 0                 | 0                     | 0         | 0                  | 0           | 2     | 1               | 0          | 0     | 0      | 0           | 0       | 1978 | Dot Moth                     |
|  | 28      | 6          | —                 | 2                     | 5         | 19                 | 3           | 3     | —               | 2          | 72    | 0      | 6           | 2       | 1977 | <i>Operophtera brumata</i>   |
|  | 47      | 1          | 2                 | 8                     | 4         | 13                 | 0           | 2     | —               | 0          | 79    | 0      | 5           | 4       | 1978 | Winter Moth                  |

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TABLE  
The Rothamsted Insect Survey—Light Traps: annual records

| Pest Species                 | Year | Gibraltar Point | Nantclwyd | Empingham | Wells next the Sea | Shardlow | Terrington | Preston Montford | Wolverhampton I | Methwold Fen | Market Harborough | Aberystwyth | Monks Wood | Monks Wood (Ewingswode) | Broom's Barn |
|------------------------------|------|-----------------|-----------|-----------|--------------------|----------|------------|------------------|-----------------|--------------|-------------------|-------------|------------|-------------------------|--------------|
|                              |      | 223             | 243       | 280       | 274                | 378      | 381        | 382              | 267             | 301          | 138               | 340         | 94         | 277                     | 88           |
| <i>Gortyna micacea</i>       | 1977 | 19              | 62        | 1         | 0                  | 14       | 11         | —                | 0               | 9            | —                 | 14          | 23         | —                       | 1            |
| Rosy Rustic                  | 1978 | 17              | 23        | 7         | 0                  | 15       | 16         | 21               | 0               | 0            | 0                 | 8           | 37         | 19                      | 0            |
| <i>Bupalus piniaria</i>      | 1977 | 0               | 0         | 0         | 0                  | 0        | 0          | —                | 0               | 0            | —                 | 0           | 0          | —                       | 0            |
| Bordered White               | 1978 | 0               | 1         | 0         | 1                  | 0        | 0          | 0                | 0               | 0            | 0                 | 1           | 0          | 0                       | 0            |
| <i>Panolis flammea</i>       | 1977 | 0               | 0         | 0         | 0                  | 0        | 0          | —                | 0               | 0            | —                 | 0           | 0          | —                       | 0            |
| Pine Beauty                  | 1978 | 0               | 0         | 0         | 0                  | 0        | 0          | 0                | 0               | 0            | 0                 | 0           | 0          | 0                       | 1            |
| <i>Cerapteryx graminis</i>   | 1977 | 7               | 1         | 0         | 0                  | 2        | 0          | —                | 0               | 0            | —                 | 10          | 0          | —                       | 0            |
| Antler Moth                  | 1978 | 4               | 1         | 0         | 0                  | 0        | 0          | 1                | 0               | 0            | 0                 | 1           | 0          | 0                       | 0            |
| <i>Erannis aurantiaria</i>   | 1977 | 0               | 12        | 0         | 0                  | 0        | 0          | —                | 0               | 0            | —                 | 1           | 0          | —                       | 1            |
| Scarce Umber                 | 1978 | 0               | 11        | 0         | 0                  | 2        | 0          | 12               | 0               | 0            | 0                 | 1           | 0          | 23                      | 2            |
| <i>Operophtera fagata</i>    | 1977 | 0               | 0         | 0         | 0                  | 0        | 0          | —                | 0               | 0            | —                 | 9           | 0          | —                       | 0            |
| Northern Winter Moth         | 1978 | 0               | 0         | 0         | 0                  | 0        | 0          | 0                | 0               | 0            | 0                 | 0           | 0          | 20                      | 0            |
| <i>Apamea sordens</i>        | 1977 | 1               | 3         | 0         | 0                  | 0        | 1          | —                | 0               | 0            | —                 | 0           | 0          | —                       | 1            |
| Rustic Shoulder-knot         | 1978 | 1               | 2         | 2         | 0                  | 1        | 9          | 0                | 0               | 1            | 0                 | 0           | 1          | 0                       | 0            |
| <i>Gortyna flavago</i>       | 1977 | 0               | 0         | 0         | 0                  | 0        | 1          | —                | 0               | 3            | —                 | 2           | 0          | —                       | 0            |
| Frosted Orange               | 1978 | 0               | 1         | 0         | 0                  | 3        | 0          | 1                | 0               | 15           | 0                 | 0           | 3          | 1                       | 0            |
| <i>Mamestra brassicae</i>    | 1977 | 0               | 0         | 4         | 1                  | 3        | 6          | —                | 0               | 38           | —                 | 0           | 1          | —                       | 2            |
| Cabbage Moth                 | 1978 | 0               | 0         | 11        | 4                  | 3        | 11         | 1                | 0               | 27           | 1                 | 0           | 0          | 0                       | 4            |
| <i>Noctua pronuba</i>        | 1977 | 5               | 2         | 42        | 5                  | 1        | 3          | —                | 1               | 4            | —                 | 13          | 10         | —                       | 2            |
| Large Yellow Underwing       | 1978 | 8               | 8         | 91        | 5                  | 9        | 1          | 7                | 1               | 7            | 6                 | 8           | 11         | 24                      | 5            |
| <i>Diataraxia oleracea</i>   | 1977 | 13              | 0         | 3         | 4                  | 5        | 8          | —                | 0               | 9            | —                 | 2           | 2          | —                       | 2            |
| Bright-line Brown-eye        | 1978 | 5               | 0         | 9         | 2                  | 11       | 22         | 6                | 3               | 9            | 1                 | 4           | 0          | 1                       | 5            |
| <i>Euxoa nigricans</i>       | 1977 | 0               | 0         | 2         | 0                  | 1        | 3          | —                | 1               | 0            | —                 | 0           | 4          | —                       | 3            |
| Garden Dart                  | 1978 | 0               | 0         | 38        | 0                  | 0        | 0          | 2                | 10              | 0            | 0                 | 0           | 0          | 4                       | 1            |
| <i>Apamea secalis</i>        | 1977 | 28              | 26        | 46        | 14                 | 8        | 14         | —                | 0               | 12           | —                 | 113         | 29         | —                       | 26           |
| Common Rustic                | 1978 | 13              | 32        | 49        | 6                  | 24       | 47         | 123              | 2               | 11           | 4                 | 37          | 6          | 3                       | 10           |
| <i>Melanchna persicariae</i> | 1977 | 0               | 0         | 3         | 0                  | 0        | 1          | —                | 0               | 10           | —                 | 1           | 0          | —                       | 0            |
| Dot Moth                     | 1978 | 0               | 0         | 5         | 0                  | 2        | 11         | 2                | 0               | 9            | 0                 | 0           | 0          | 0                       | 0            |
| <i>Operophtera brumata</i>   | 1977 | 0               | 46        | 10        | 2                  | 5        | 2          | —                | 0               | 0            | —                 | 42          | 5          | —                       | 1            |
| Winter Moth                  | 1978 | 1               | 29        | 21        | 6                  | 1        | 1          | 11               | 0               | 0            | 6                 | 26          | 0          | 147                     | 1            |

## ROTHAMSTED INSECT SURVEY

2(b)  
of moths of economic, or other importance for 1977 and 1978

|  | Tregaron | Llysdinam | Wellesbourne | Waresley | Luddington | Cockayne Hatley | Pershore | Shuttleworth | Rhandirmwyn | Bradwell Abbey | Tarleton | Woodstock | Rothamsted (Barnfield) | Rothamsted (Allotments) | Year | Pest Species                  |
|--|----------|-----------|--------------|----------|------------|-----------------|----------|--------------|-------------|----------------|----------|-----------|------------------------|-------------------------|------|-------------------------------|
|  | 331      | 111       | 359          | 360      | 355        | 336             | 195      | 283          | 346         | 354            | 371      | 182       | 1                      | 34                      | 1977 | <i>Gortyna micacea</i>        |
|  | 41       | 14        | 9            | 19       | 4          | 13              | 12       | 11           | 49          | —              | —        | 8         | 10                     | 3                       | 1978 | Rosy Rustic                   |
|  | 27       | 7         | 6            | 16       | 1          | 23              | 18       | 4            | 24          | 33             | 6        | 8         | 12                     | 58                      |      |                               |
|  | 0        | 0         | 0            | 0        | 0          | 0               | 0        | 0            | 0           | —              | —        | 0         | 0                      | 0                       | 1977 | <i>Bupalus piniaria</i>       |
|  | 0        | 0         | 0            | 0        | 0          | 0               | 0        | 0            | 0           | 0              | 0        | 0         | 0                      | 0                       | 1978 | Bordered White                |
|  | 0        | 3         | 0            | 0        | 0          | 0               | 0        | 0            | 1           | —              | —        | 0         | 0                      | 0                       | 1977 | <i>Panolis flammea</i>        |
|  | 0        | 1         | 0            | 0        | 0          | 0               | 0        | 0            | 0           | 0              | 0        | 0         | 0                      | 0                       | 1978 | Pine Beauty                   |
|  | 112      | 7         | 0            | 0        | 0          | 0               | 0        | 0            | 24          | —              | —        | 0         | 0                      | 0                       | 1977 | <i>Cerapteryx graminis</i>    |
|  | 49       | 0         | 0            | 0        | 0          | 0               | 0        | 0            | 5           | 0              | 0        | 2         | 0                      | 0                       | 1978 | Antler Moth                   |
|  | 26       | 27        | 0            | 0        | 1          | 0               | 4        | 0            | 76          | —              | —        | 4         | 0                      | 0                       | 1977 | <i>Erannis aurantiaria</i>    |
|  | 55       | 58        | 0            | 0        | 0          | 1               | 2        | 1            | 128         | 0              | 0        | 5         | 0                      | 0                       | 1978 | Scarce Umber                  |
|  | 36       | 0         | 0            | 1        | 0          | 1               | 0        | 0            | 4           | —              | —        | 0         | 0                      | 0                       | 1977 | <i>Operophtera fagata</i>     |
|  | 65       | 0         | 0            | 1        | 0          | 0               | 0        | 1            | 4           | 0              | 0        | 0         | 0                      | 0                       | 1978 | Northern Winter Moth          |
|  | 0        | 0         | 0            | 1        | 0          | 0               | 0        | 0            | 4           | —              | —        | 0         | 3                      | 0                       | 1977 | <i>Apamea sordens</i>         |
|  | 0        | 0         | 0            | 7        | 2          | 2               | 1        | 4            | 1           | 13             | 0        | 0         | 2                      | 3                       | 1978 | Rustic Shoulder-knot          |
|  | 6        | 0         | 0            | 5        | 0          | 1               | 1        | 0            | 4           | —              | —        | 0         | 0                      | 0                       | 1977 | <i>Gortyna flavago</i>        |
|  | 10       | 2         | 0            | 2        | 0          | 0               | 0        | 1            | 9           | 1              | 0        | 0         | 0                      | 0                       | 1978 | Frosted Orange                |
|  | 0        | 2         | 0            | 0        | 12         | 0               | 3        | 1            | 0           | —              | —        | 0         | 0                      | 0                       | 1977 | <i>Mamestra brassicae</i>     |
|  | 0        | 1         | 2            | 3        | 7          | 0               | 1        | 0            | 0           | 9              | 10       | 0         | 2                      | 2                       | 1978 | Cabbage Moth                  |
|  | 26       | 2         | 2            | 8        | 14         | 16              | 116      | 14           | 87          | —              | —        | 8         | 34                     | 0                       | 1977 | <i>Noctua pronuba</i>         |
|  | 42       | 32        | 6            | 17       | 11         | 6               | 95       | 11           | 19          | 4              | 12       | 11        | 45                     | 56                      | 1978 | Large Yellow Underwing        |
|  | 9        | 0         | 3            | 8        | 11         | 3               | 3        | 6            | 11          | —              | —        | 0         | 2                      | 2                       | 1977 | <i>Diataraxia oleracea</i>    |
|  | 4        | 0         | 0            | 34       | 7          | 8               | 8        | 9            | 4           | 15             | 14       | 0         | 4                      | 2                       | 1978 | Bright-line Brown-eye         |
|  | 0        | 0         | 0            | 10       | 8          | 29              | 4        | 1            | 0           | —              | —        | 11        | 2                      | 1                       | 1977 | <i>Euxoa nigricans</i>        |
|  | 0        | 0         | 1            | 18       | 8          | 4               | 4        | 0            | 0           | 2              | 2        | 0         | 1                      | 10                      | 1978 | Garden Dart                   |
|  | 36       | 12        | 15           | 46       | 14         | 38              | 16       | 11           | 40          | —              | —        | 3         | 94                     | 7                       | 1977 | <i>Apamea secalis</i>         |
|  | 16       | 15        | 23           | 64       | 21         | 32              | 26       | 11           | 9           | 40             | 35       | 1         | 87                     | 118                     | 1978 | Common Rustic                 |
|  | 1        | 0         | 0            | 2        | 1          | 0               | 2        | 0            | 1           | —              | —        | 0         | 0                      | 0                       | 1977 | <i>Melanchnra persicariae</i> |
|  | 1        | 0         | 0            | 8        | 0          | 0               | 4        | 0            | 0           | 0              | 5        | 0         | 1                      | 1                       | 1978 | Dot Moth                      |
|  | 293      | 158       | 1            | 17       | 6          | 7               | 123      | 35           | 476         | —              | —        | 0         | 0                      | 0                       | 1977 | <i>Operophtera brumata</i>    |
|  | 325      | 187       | 2            | 3        | 1          | 14              | 125      | 15           | 257         | 4              | 0        | 2         | 1                      | 0                       | 1978 | Winter Moth                   |

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TABLE  
The Rothamsted Insect Survey—Light Traps: annual records

| Pest Species                                        | Year | Rothamsted (Geescroft) |         |           |           |              |            |       |        |        |         |         |      |            |                |
|-----------------------------------------------------|------|------------------------|---------|-----------|-----------|--------------|------------|-------|--------|--------|---------|---------|------|------------|----------------|
|                                                     |      | 22                     | 87      | 374       | 332       | 305          | 292        | 213   | 357    | 180    | 347     | 370     | 130  | 171        | 384            |
|                                                     |      | Rothamsted             | Writtle | St. Alban | Whiteford | Chigwell Row | Westonbirt | Gower | Oxwich | Hurley | Cardiff | Sheppey | Bath | Windlesham | East Malling I |
| <i>Gortyna micacea</i><br>Rosy Rustic               | 1977 | 8                      | 1       | —         | 50        | 0            | 5          | 33    | 116    | 2      | —       | 4       | 0    | 0          | —              |
|                                                     | 1978 | 3                      | 3       | 0         | 31        | 0            | 0          | 11    | 48     | 5      | 0       | 7       | 1    | 0          | 5              |
| <i>Bupalus piniaria</i><br>Bordered White           | 1977 | 0                      | 0       | —         | 3         | 0            | 1          | 0     | 1      | 0      | —       | 0       | 0    | 18         | —              |
|                                                     | 1978 | 0                      | 0       | 0         | 8         | 0            | 5          | 0     | 0      | 0      | 0       | 0       | 0    | 32         | 0              |
| <i>Panolis flammea</i><br>Pine Beauty               | 1977 | 0                      | 0       | —         | 65        | 0            | 1          | 0     | 0      | 0      | —       | 0       | 0    | 22         | —              |
|                                                     | 1978 | 0                      | 0       | 0         | 38        | 0            | 1          | 0     | 1      | 0      | 0       | 0       | 0    | 1          | 0              |
| <i>Cerapteryx graminis</i><br>Antler Moth           | 1977 | 0                      | 0       | —         | 28        | 0            | 1          | 0     | 28     | 0      | —       | 0       | 0    | 0          | —              |
|                                                     | 1978 | 0                      | 0       | 1         | 20        | 0            | 0          | 2     | 14     | 0      | 0       | 1       | 0    | 0          | 0              |
| <i>Erannis aurantiaria</i><br>Scarce Umber          | 1977 | 1                      | 0       | —         | 0         | 1            | 6          | 0     | 2      | 5      | —       | 0       | 0    | 18         | —              |
|                                                     | 1978 | 13                     | 1       | 1         | 0         | 0            | 17         | 0     | 1      | 3      | 0       | 0       | 0    | 22         | 0              |
| <i>Operophtera fagata</i><br>Northern Winter Moth   | 1977 | 0                      | 0       | —         | 0         | 0            | 1          | 0     | 2      | 4      | —       | 0       | 0    | 0          | —              |
|                                                     | 1978 | 1                      | 0       | 0         | 0         | 1            | 3          | 0     | 0      | 4      | 0       | 0       | 0    | 4          | 0              |
| <i>Apamea sordens</i><br>Rustic Shoulder-knot       | 1977 | 0                      | 1       | —         | 1         | 0            | 1          | 0     | 2      | 2      | —       | 0       | 0    | 0          | —              |
|                                                     | 1978 | 0                      | 0       | 0         | 0         | 0            | 0          | 0     | 0      | 0      | 3       | 2       | 0    | 0          | 2              |
| <i>Gortyna flavago</i><br>Frosted Orange            | 1977 | 0                      | 0       | —         | 3         | 0            | 0          | 0     | 9      | 1      | —       | 0       | 0    | 0          | —              |
|                                                     | 1978 | 0                      | 0       | 3         | 0         | 0            | 0          | 12    | 4      | 0      | 0       | 0       | 0    | 0          | 0              |
| <i>Mamestra brassicae</i><br>Cabbage Moth           | 1977 | 0                      | 0       | —         | 0         | 3            | 0          | 0     | 0      | 0      | —       | 6       | 11   | 7          | —              |
|                                                     | 1978 | 0                      | 4       | 0         | 1         | 9            | 1          | 1     | 0      | 0      | 4       | 1       | 2    | 3          | 1              |
| <i>Noctua pronuba</i><br>Large Yellow Underwing     | 1977 | 128                    | 7       | —         | 16        | 20           | 21         | 14    | 63     | 3      | —       | 20      | 6    | 9          | —              |
|                                                     | 1978 | 196                    | 9       | 8         | 6         | 37           | 56         | 19    | 13     | 10     | 32      | 8       | 12   | 26         | 3              |
| <i>Diataraxia oleracea</i><br>Bright-line Brown-eye | 1977 | 1                      | 1       | —         | 0         | 0            | 0          | 1     | 39     | 1      | —       | 10      | 4    | 0          | —              |
|                                                     | 1978 | 11                     | 16      | 7         | 3         | 4            | 0          | 5     | 31     | 2      | 9       | 29      | 2    | 2          | 11             |
| <i>Euxoa nigricans</i><br>Garden Dart               | 1977 | 18                     | 3       | —         | 0         | 1            | 0          | 0     | 0      | 0      | —       | 20      | 0    | 0          | —              |
|                                                     | 1978 | 4                      | 7       | 0         | 1         | 31           | 0          | 0     | 0      | 0      | 0       | 7       | 0    | 0          | 13             |
| <i>Apamea secalis</i><br>Common Rustic              | 1977 | 37                     | 28      | —         | 10        | 20           | 6          | 5     | 124    | 68     | —       | 91      | 24   | 6          | —              |
|                                                     | 1978 | 35                     | 68      | 21        | 9         | 34           | 44         | 21    | 52     | 35     | 70      | 36      | 12   | 10         | 16             |
| <i>Melanchra persicariae</i><br>Dot Moth            | 1977 | 0                      | 0       | —         | 4         | 0            | 0          | 0     | 0      | 1      | —       | 1       | 0    | 0          | —              |
|                                                     | 1978 | 0                      | 0       | 0         | 4         | 0            | 0          | 0     | 1      | 0      | 0       | 2       | 0    | 1          | 0              |
| <i>Operophtera brumata</i><br>Winter Moth           | 1977 | 110                    | 0       | —         | 1         | 1            | 32         | 15    | 51     | 10     | —       | 1       | 11   | 10         | —              |
|                                                     | 1978 | 101                    | 5       | 0         | 0         | 3            | 41         | 8     | 35     | 6      | 5       | 4       | 19   | 11         | 0              |

## ROTHAMSTED INSECT SURVEY

2(c)  
of moths of economic, or other importance for 1977 and 1978

| Wisley |    | Wye |    | Alice Holt |   | Haslemere |   | Winchester |    | Lydd |     | Denny Lodge |    | Starcross |    | Yarner Wood I |      | Yarner Wood II |    | Slapton Ley |    | Rosewarne |   | Guernsey |    | Jersey |   | Year | Pest Species                 |
|--------|----|-----|----|------------|---|-----------|---|------------|----|------|-----|-------------|----|-----------|----|---------------|------|----------------|----|-------------|----|-----------|---|----------|----|--------|---|------|------------------------------|
| 1      | 1  | 7   | 2  | 5          | 7 | 6         | 2 | —          | 3  | 2    | 10  | 0           | 0  | 4         | 7  | 1             | 4    | 2              | 1  | 14          | 9  | 10        | 3 | 2        | 8  | 1      | 3 | 1977 | <i>Gortyna micacea</i>       |
| 0      | 0  | 0   | 0  | 1          | 1 | 0         | 0 | —          | 0  | 0    | 0   | 0           | 0  | 0         | 0  | 0             | 1    | 0              | 0  | 0           | 0  | 0         | 0 | 0        | 0  | 0      | 6 | 1978 | Rosy Rustic                  |
| 1      | 0  | 0   | 0  | 0          | 1 | 0         | 0 | —          | 0  | 1    | 0   | 0           | 0  | 0         | 0  | 0             | 0    | 0              | 0  | 0           | 0  | 0         | 0 | 0        | 0  | 0      | 0 | 1977 | <i>Bupalus piniaria</i>      |
| 0      | 0  | 0   | 0  | 1          | 1 | 0         | 0 | 0          | 0  | 0    | 0   | 0           | 0  | 0         | 0  | 1             | 0    | 0              | 0  | 0           | 0  | 1         | 0 | 0        | 0  | 0      | 0 | 1978 | Bordered White               |
| 2      | 0  | 0   | 1  | 2          | 1 | 0         | 1 | —          | 0  | 1    | 0   | 0           | 0  | 0         | 0  | 0             | 0    | 1              | 0  | 0           | 0  | 1         | 0 | 0        | 0  | 0      | 0 | 1977 | <i>Panolis flammea</i>       |
| 0      | 0  | 0   | 0  | 1          | 1 | 0         | 0 | 0          | 0  | 0    | 0   | 0           | 0  | 0         | 0  | 0             | 0    | 0              | 0  | 0           | 0  | 1         | 0 | 0        | 0  | 0      | 0 | 1978 | Pine Beauty                  |
| 1      | 0  | 0   | 0  | 6          | 0 | 0         | 0 | —          | 0  | 3    | 0   | 0           | 0  | 1         | 1  | 3             | 2    | 2              | 0  | 0           | 0  | 0         | 0 | 0        | 0  | 0      | 0 | 1977 | <i>Cerapteryx graminis</i>   |
| 0      | 0  | 0   | 0  | 5          | 0 | 0         | 0 | 0          | 0  | 6    | 0   | 0           | 0  | 1         | 1  | 6             | 1    | 1              | 0  | 0           | 0  | 0         | 0 | 0        | 0  | 0      | 0 | 1978 | Antler Moth                  |
| 2      | 0  | 3   | 2  | 2          | 5 | —         | 0 | —          | 0  | 0    | 5   | 0           | 0  | 0         | 0  | 18            | 34   | 0              | 0  | 0           | 0  | 0         | 0 | 0        | 0  | 0      | 0 | 1977 | <i>Erannis aurantiaria</i>   |
| 0      | 0  | 0   | 11 | 15         | 0 | 0         | 0 | 0          | 0  | 21   | 0   | 0           | 0  | 0         | 0  | 53            | 116  | 0              | 0  | 0           | 0  | 0         | 0 | 0        | 0  | 0      | 0 | 1978 | Scarce Umber                 |
| 0      | 1  | 0   | 0  | 4          | 0 | —         | 0 | —          | 0  | 0    | 1   | 0           | 0  | 0         | 0  | 0             | 0    | 0              | 0  | 0           | 0  | 0         | 0 | 0        | 0  | 0      | 0 | 1977 | <i>Operophtera fagata</i>    |
| 1      | 3  | 0   | 1  | 0          | 0 | 0         | 0 | 0          | 0  | 0    | 0   | 0           | 0  | 0         | 0  | 0             | 0    | 0              | 0  | 0           | 0  | 0         | 0 | 0        | 0  | 0      | 0 | 1978 | Northern Winter Moth         |
| 0      | 0  | 1   | 0  | 1          | 0 | —         | 0 | —          | 0  | 0    | 0   | 0           | 0  | 0         | 0  | 0             | 0    | 0              | 0  | 0           | 0  | 0         | 0 | 0        | 0  | 0      | 0 | 1977 | <i>Apamea sordens</i>        |
| 6      | 0  | 0   | 0  | 0          | 0 | 0         | 1 | 0          | 0  | 0    | 0   | 0           | 0  | 0         | 0  | 0             | 0    | 0              | 0  | 0           | 0  | 2         | 1 | 0        | 0  | 0      | 0 | 1978 | Rustic Shoulder-knot         |
| 0      | 0  | 0   | 0  | 0          | 0 | —         | 0 | —          | 0  | 0    | 0   | 0           | 0  | 0         | 0  | 1             | 1    | 0              | 0  | 0           | 0  | 0         | 0 | 0        | 0  | 0      | 0 | 1977 | <i>Gortyna flavago</i>       |
| 2      | 0  | 0   | 1  | 0          | 0 | 0         | 0 | 0          | 0  | 0    | 0   | 0           | 0  | 0         | 0  | 1             | 3    | 0              | 0  | 0           | 0  | 1         | 0 | 0        | 0  | 0      | 0 | 1978 | Frosted Orange               |
| 1      | 4  | 5   | 0  | 0          | 2 | —         | 0 | —          | 0  | 0    | 0   | 0           | 0  | 1         | 0  | 0             | 0    | 0              | 0  | 1           | 1  | 2         | 4 | 4        | 10 | 0      | 0 | 1977 | <i>Mamestra brassicae</i>    |
| 0      | 0  | 3   | 0  | 0          | 2 | 1         | 2 | 0          | 0  | 0    | 0   | 0           | 0  | 0         | 0  | 0             | 0    | 0              | 0  | 5           | 4  | 4         | 4 | 4        | 10 | 0      | 0 | 1978 | Cabbage Moth                 |
| 17     | 21 | 28  | 18 | 6          | — | 2         | 6 | —          | 2  | 6    | 1   | 34          | 15 | 6         | 9  | 34            | 15   | 6              | 9  | 6           | 9  | 2         | 3 | 2        | 3  | 0      | 0 | 1977 | <i>Noctua pronuba</i>        |
| 0      | 0  | 0   | 0  | 0          | 0 | 0         | 0 | 0          | 0  | 0    | 0   | 0           | 0  | 0         | 0  | 0             | 0    | 0              | 0  | 0           | 0  | 0         | 0 | 0        | 0  | 0      | 0 | 1978 | Large Yellow Underwing       |
| 1      | 1  | 11  | 2  | 3          | — | 5         | 0 | —          | 5  | 0    | 0   | 5           | 0  | 0         | 0  | 5             | 0    | 2              | 2  | 4           | 4  | 16        | 2 | 2        | 4  | 0      | 0 | 1977 | <i>Diataraxia oleracea</i>   |
| 0      | 0  | 0   | 0  | 0          | 0 | 0         | 0 | 0          | 0  | 0    | 0   | 0           | 0  | 0         | 0  | 0             | 0    | 0              | 0  | 0           | 0  | 2         | 0 | 1        | 0  | 0      | 0 | 1978 | Bright-line Brown-eye        |
| 0      | 0  | 4   | 1  | 0          | — | 1         | 0 | —          | 1  | 0    | 0   | 0           | 0  | 0         | 0  | 0             | 0    | 0              | 0  | 0           | 0  | 0         | 0 | 0        | 0  | 0      | 0 | 1977 | <i>Euxoa nigricans</i>       |
| 0      | 0  | 0   | 0  | 0          | 0 | 0         | 0 | 0          | 0  | 0    | 0   | 0           | 0  | 0         | 0  | 0             | 0    | 0              | 0  | 0           | 0  | 0         | 0 | 0        | 0  | 0      | 0 | 1978 | Garden Dart                  |
| 32     | 50 | 22  | 2  | 10         | — | 49        | 0 | —          | 49 | 0    | 7   | 20          | 11 | 27        | 18 | 20            | 11   | 27             | 18 | 77          | 18 | 12        | 3 | 3        | 5  | 0      | 0 | 1977 | <i>Apamea secalis</i>        |
| 0      | 0  | 0   | 0  | 1          | — | 0         | 0 | —          | 0  | 0    | 0   | 2           | 0  | 2         | 1  | 2             | 0    | 2              | 1  | 77          | 10 | 3         | 5 | 0        | 0  | 0      | 0 | 1978 | Common Rustic                |
| 0      | 3  | 5   | 0  | 1          | — | 0         | 0 | —          | 0  | 0    | 0   | 0           | 0  | 0         | 0  | 0             | 0    | 0              | 0  | 5           | 0  | 0         | 0 | 0        | 0  | 0      | 0 | 1977 | <i>Melanchra persicariae</i> |
| 7      | 14 | 30  | 44 | 22         | — | 18        | 4 | —          | 18 | 4    | 533 | 1324        | 3  | 0         | 0  | 395           | 1009 | 0              | 0  | 0           | 0  | 0         | 0 | 0        | 0  | 0      | 0 | 1978 | Dot Moth                     |
| 0      | 0  | 0   | 0  | 0          | 0 | 0         | 0 | 0          | 0  | 0    | 0   | 0           | 0  | 0         | 0  | 0             | 0    | 0              | 0  | 0           | 0  | 0         | 0 | 0        | 0  | 0      | 0 | 1977 | <i>Operophtera brumata</i>   |
| 0      | 0  | 0   | 0  | 0          | 0 | 0         | 0 | 0          | 0  | 0    | 0   | 0           | 0  | 0         | 0  | 0             | 0    | 0              | 0  | 0           | 0  | 0         | 0 | 0        | 0  | 0      | 0 | 1978 | Winter Moth                  |

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

| Pest Species                                      | Year | Inverpolly | Harris | Newton, Elgin | Beinn Eighe | New Deer | Carbost, Skye | Fort Augustus | Rannoch | Dundee | Culzean Castle | Rowardennan | East Craigs | St. Abbs | Auchincruive |
|---------------------------------------------------|------|------------|--------|---------------|-------------|----------|---------------|---------------|---------|--------|----------------|-------------|-------------|----------|--------------|
|                                                   |      | 352        | 349    | 58            | 350         | 372      | 50            | 49            | 29      | 47     | 264            | 97          | 261         | 375      | 293          |
| <i>Abraxas grossulariata</i><br>Magpie Moth       | 1977 | 10         | 17     | 0             | 54          | 0        | 7             | 0             | 0       | 0      | 0              | 0           | 0           | —        | 0            |
|                                                   | 1978 | 3          | 26     | 0             | 99          | 0        | 3             | 0             | 0       | 0      | 1              | 0           | 0           | 1        | 0            |
| <i>Agrotis segetum</i><br>Turnip Moth             | 1977 | 0          | 0      | 0             | 0           | 0        | 0             | 0             | 0       | 3      | 0              | 0           | 1           | —        | 2            |
|                                                   | 1978 | 0          | 0      | 1             | 0           | 0        | 0             | 0             | 0       | 23     | 0              | 0           | 0           | 0        | 0            |
| <i>Erannis defoliaria</i><br>Mottled Umber        | 1977 | 5          | 0      | 2             | 8           | 0        | 23            | 12            | 69      | 6      | 0              | 7399        | 0           | —        | 0            |
|                                                   | 1978 | —          | —      | 2             | 10          | 0        | 10            | 21            | 241     | 3      | 3              | 9722        | 0           | 99       | 0            |
| <i>Phlogophora meticulosa</i><br>Angle Shades     | 1977 | 0          | 0      | 0             | 0           | 0        | 0             | 0             | 0       | 0      | 0              | 0           | 0           | —        | 2            |
|                                                   | 1978 | 0          | 0      | 0             | 0           | 0        | 2             | 0             | 0       | 0      | 0              | 0           | 1           | 1        | 0            |
| <i>Alsophila aescularia</i><br>March Moth         | 1977 | 0          | 0      | 5             | 0           | 0        | 0             | 10            | 0       | 1      | 1              | 129         | 0           | —        | 0            |
|                                                   | 1978 | 0          | 0      | 10            | 0           | 0        | 0             | 5             | 0       | 1      | 1              | 133         | 0           | 46       | 0            |
| <i>Hepialus humuli</i><br>Ghost Swift             | 1977 | 0          | 0      | 1             | 3           | 3        | 4             | 0             | 1       | 0      | 0              | 3           | 0           | —        | 0            |
|                                                   | 1978 | 0          | 1      | 0             | 0           | 1        | 2             | 0             | 0       | 0      | 0              | 1           | 0           | 1        | 0            |
| <i>Hepialus lupulina</i><br>Common Swift          | 1977 | 0          | 0      | 0             | 0           | 0        | 0             | 1             | 6       | 0      | 0              | 1           | 1           | —        | 0            |
|                                                   | 1978 | 0          | 0      | 0             | 0           | 0        | 0             | 0             | 14      | 0      | 0              | 2           | 0           | 2        | 2            |
| <i>Agrotis ipsilon</i><br>Dark Sword Grass        | 1977 | 0          | 0      | 0             | 0           | 1        | 0             | 0             | 0       | 0      | 0              | 0           | 0           | —        | 0            |
|                                                   | 1978 | 0          | 0      | 0             | 0           | 0        | 0             | 0             | 0       | 0      | 0              | 0           | 0           | 1        | 0            |
| <i>Euproctis chrysorrhoea</i><br>Brown-tail       | 1977 | 0          | 0      | 0             | 0           | 0        | 0             | 0             | 0       | 0      | 0              | 0           | 0           | —        | 0            |
|                                                   | 1978 | 0          | 0      | 0             | 0           | 0        | 0             | 0             | 0       | 0      | 0              | 0           | 0           | 0        | 0            |
| <i>Agrotis exclamatoris</i><br>Heart and Dart     | 1977 | 0          | 0      | 135           | 1           | 10       | 0             | 1             | 0       | 32     | 95             | 0           | 69          | —        | 43           |
|                                                   | 1978 | 0          | 1      | 11            | 0           | 1        | 7             | 1             | 0       | 47     | 80             | 0           | 74          | 172      | 27           |
| <i>Plusia gamma</i><br>Silver Y                   | 1977 | 1          | 0      | 1             | 0           | 1        | 4             | 0             | 0       | 2      | 2              | 1           | 1           | —        | 0            |
|                                                   | 1978 | 0          | 0      | 0             | 0           | 0        | 2             | 1             | 1       | 0      | 0              | 0           | 0           | 14       | 0            |
| <i>Laphygma exigua</i><br>Small Mottled Willow    | 1977 | 0          | 0      | 0             | 0           | 0        | 0             | 0             | 0       | 0      | 0              | 0           | 0           | —        | 0            |
|                                                   | 1978 | 0          | 0      | 0             | 0           | 0        | 0             | 0             | 0       | 0      | 0              | 0           | 0           | 0        | 0            |
| <i>Nycterosea obstipata</i><br>The Gem            | 1977 | 0          | 0      | 0             | 0           | 0        | 0             | 0             | 0       | 0      | 0              | 0           | 0           | —        | 0            |
|                                                   | 1978 | 0          | 0      | 0             | 0           | 0        | 0             | 0             | 0       | 0      | 0              | 0           | 0           | 0        | 0            |
| <i>Nomophila noctuella</i><br>Rush Veneer Pearl   | 1977 | 0          | 0      | 0             | 0           | 0        | 0             | 0             | 0       | 0      | 0              | 0           | 0           | —        | 0            |
|                                                   | 1978 | 0          | 0      | 0             | 0           | 0        | 0             | 0             | 0       | —      | 0              | 0           | 0           | 0        | 0            |
| <i>Plutella maculipennis</i><br>Diamond-back Moth | 1977 | 2          | 0      | 1             | 0           | 0        | 0             | 0             | 0       | 156    | 0              | 0           | 2           | —        | 0            |
|                                                   | 1978 | 0          | 9      | 0             | 18          | 2        | 0             | 0             | 0       | —      | 0              | 0           | 0           | 0        | 0            |
| <i>Udea ferrugalis</i><br>Rusty Dot Pearl         | 1977 | 0          | 0      | 0             | 0           | 0        | 0             | 0             | 0       | 0      | 0              | 0           | 0           | —        | 0            |
|                                                   | 1978 | 0          | 0      | 0             | 0           | 0        | 0             | 0             | 0       | —      | 0              | 0           | 0           | 0        | 0            |

ROTHAMSTED INSECT SURVEY

2(d)  
of moths of economic, or other importance for 1977 and 1978

|  | Kielder | Bedlington | Chester le Street | Middleton in Teesdale | Baldersby | Castletown, I.O.M. | Malham Tarn | Acomb | Blacktoft Sands | Spurn Head | Edale | Bangor | Gleadthorpe | Matlock | Year | Pest Species                  |
|--|---------|------------|-------------------|-----------------------|-----------|--------------------|-------------|-------|-----------------|------------|-------|--------|-------------|---------|------|-------------------------------|
|  | 296     | 303        | 39                | 263                   | 315       | 306                | 45          | 363   | 330             | 131        | 365   | 35     | 257         | 279     |      |                               |
|  | 0       | 7          | 4                 | 0                     | 4         | 12                 | 1           | 3     | —               | 1          | 1     | 0      | 0           | 15      | 1977 | <i>Abraxas grossulariata</i>  |
|  | 0       | 4          | 2                 | 0                     | 7         | 8                  | 0           | 7     | 1               | 2          | 1     | 1      | 0           | 25      | 1978 | Magpie Moth                   |
|  | 0       | 0          | 0                 | 0                     | 4         | 0                  | 0           | 1     | —               | 2          | 0     | 0      | 13          | 2       | 1977 | <i>Agrotis segetum</i>        |
|  | 0       | 1          | 1                 | 0                     | 1         | 1                  | 0           | 3     | 5               | 0          | 0     | 0      | 17          | 2       | 1978 | Turnip Moth                   |
|  | 1       | 1          | —                 | 4                     | 0         | 13                 | 7           | 0     | —               | 0          | 4     | 0      | 4           | 0       | 1977 | <i>Erannis defoliaria</i>     |
|  | 17      | 0          | 4                 | 14                    | 9         | 8                  | 5           | 2     | —               | 0          | 5     | 1      | 1           | 2       | 1978 | Mottled Umber                 |
|  | 0       | 2          | 2                 | 4                     | 11        | 11                 | 2           | 0     | —               | 9          | 9     | 3      | 15          | 2       | 1977 | <i>Phlogophora meticulosa</i> |
|  | 1       | 0          | 0                 | 6                     | 7         | 13                 | 3           | 1     | 18              | 20         | 3     | 3      | 2           | 6       | 1978 | Angle Shades                  |
|  | 0       | 0          | 1                 | 2                     | 1         | 0                  | 1           | 0     | —               | 0          | 0     | 0      | 8           | 2       | 1977 | <i>Alsophila aescularia</i>   |
|  | 0       | 0          | 3                 | 4                     | 9         | 0                  | 0           | 0     | 0               | 0          | 3     | 0      | 3           | 1       | 1978 | March Moth                    |
|  | 0       | 2          | 0                 | 2                     | 0         | 0                  | 3           | 1     | —               | 0          | 5     | 0      | 1           | 1       | 1977 | <i>Hepialus humuli</i>        |
|  | 0       | 2          | 1                 | 0                     | 1         | 0                  | 2           | 0     | 0               | 0          | 0     | 0      | 0           | 0       | 1978 | Ghost Swift                   |
|  | 1       | 6          | 1                 | 0                     | 4         | 0                  | 1           | 0     | —               | 25         | 0     | 0      | 14          | 6       | 1977 | <i>Hepialus lupulina</i>      |
|  | 2       | 20         | 1                 | 0                     | 9         | 0                  | 0           | 1     | 77              | 35         | 1     | 0      | 18          | 6       | 1978 | Common Swift                  |
|  | 0       | 0          | 0                 | 0                     | 0         | 1                  | 0           | 0     | —               | 1          | 0     | 0      | 0           | 0       | 1977 | <i>Agrotis ipsilon</i>        |
|  | 0       | 0          | 0                 | 0                     | 0         | 0                  | 0           | 0     | 0               | 0          | 0     | 0      | 0           | 0       | 1978 | Dark Sword Grass              |
|  | 0       | 0          | 0                 | 0                     | 0         | 0                  | 0           | 0     | —               | 0          | 0     | 0      | 0           | 0       | 1977 | <i>Euproctis chrysorrhoea</i> |
|  | 0       | 0          | 0                 | 0                     | 0         | 0                  | 0           | 0     | 0               | 0          | 0     | 0      | 0           | 0       | 1978 | Brown-tail                    |
|  | 1       | 139        | 161               | 59                    | 477       | 475                | 7           | 116   | —               | 376        | 281   | 331    | 587         | 599     | 1977 | <i>Agrotis exclamationis</i>  |
|  | 5       | 89         | 55                | 42                    | 93        | 1382               | 2           | 66    | 113             | 81         | 33    | 20     | 421         | 19      | 1978 | Heart and Dart                |
|  | 5       | 9          | 15                | 41                    | 59        | 92                 | 2           | 57    | —               | 95         | 11    | 7      | 7           | 8       | 1977 | <i>Plusia gamma</i>           |
|  | 3       | 6          | 21                | 28                    | 40        | 17                 | 5           | 31    | 0               | 78         | 1     | 0      | 3           | 18      | 1978 | Silver Y                      |
|  | 0       | 0          | 0                 | 0                     | 0         | 0                  | 0           | 0     | —               | 0          | 0     | 0      | 0           | 0       | 1977 | <i>Laphygma exigua</i>        |
|  | 0       | 0          | 0                 | 0                     | 0         | 0                  | 0           | 0     | 0               | 0          | 0     | 0      | 0           | 0       | 1978 | Small Mottled Willow          |
|  | 0       | 0          | 0                 | 0                     | 0         | 0                  | 0           | 0     | —               | 0          | 0     | 0      | 0           | 0       | 1977 | <i>Nycterosea obstipata</i>   |
|  | 0       | 0          | 0                 | 0                     | 0         | 1                  | 0           | 0     | 0               | 0          | 0     | 0      | 0           | 0       | 1978 | The Gem                       |
|  | 0       | 0          | 0                 | 0                     | 0         | 1                  | 0           | 0     | —               | 0          | 0     | 0      | 0           | 0       | 1977 | <i>Nomophila noctuella</i>    |
|  | 0       | 0          | 0                 | 0                     | —         | 0                  | 0           | 0     | —               | 1          | 0     | 0      | 0           | 0       | 1978 | Rush Veneer Pearl             |
|  | 1       | 2          | 0                 | 0                     | 3         | 0                  | 0           | 55    | —               | 41         | 1     | 0      | 40          | 33      | 1977 | <i>Plutella maculipennis</i>  |
|  | 2       | 0          | 0                 | 0                     | —         | 0                  | 0           | 43    | —               | 487        | 2     | 0      | 14          | 12      | 1978 | Diamond-back Moth             |
|  | 0       | 0          | 0                 | 0                     | 0         | 0                  | 0           | 0     | —               | 0          | 0     | 0      | 0           | 0       | 1977 | <i>Udea ferrugalis</i>        |
|  | 4       | 0          | 0                 | 0                     | —         | 0                  | 0           | 0     | —               | 0          | 0     | 0      | 0           | 0       | 1978 | Rusty Dot Pearl               |



ROTHAMSTED REPORT FOR 1979, PART 2

TABLE  
The Rothamsted Insect Survey—Light Traps: annual records

| Pest Species                  | Year | Gibraltar Point | Nantclwyd | Empingham | Wells next the Sea | Shardlow | Terrington | Preston Montford | Wolverhampton | Methwold Fen | Market Harborough | Aberystwyth | Monks Wood | Monks Wood (Ewingswode) | Broom's Barn |
|-------------------------------|------|-----------------|-----------|-----------|--------------------|----------|------------|------------------|---------------|--------------|-------------------|-------------|------------|-------------------------|--------------|
|                               |      | 223             | 243       | 280       | 274                | 378      | 381        | 382              | 267           | 301          | 138               | 340         | 94         | 277                     | 88           |
| <i>Abraxas grossulariata</i>  | 1977 | 0               | 4         | 33        | 18                 | 4        | 2          | —                | 0             | 0            | —                 | 10          | 2          | —                       | 7            |
| Magpie Moth                   | 1978 | 1               | 4         | 56        | 14                 | 3        | 3          | 4                | 0             | 2            | 39                | 4           | 5          | 103                     | 1            |
| <i>Agrotis segetum</i>        | 1977 | 0               | 0         | 20        | 11                 | 0        | 4          | —                | 0             | 16           | —                 | 1           | 3          | —                       | 15           |
| Turnip Moth                   | 1978 | 0               | 1         | 10        | 0                  | 1        | 17         | 1                | 0             | 22           | 0                 | 0           | 2          | 5                       | 2            |
| <i>Erannis defoliaria</i>     | 1977 | 0               | 52        | 2         | 0                  | 2        | 0          | —                | 0             | 0            | —                 | 9           | 1          | —                       | 1            |
| Mottled Umber                 | 1978 | 0               | 62        | 2         | 0                  | 6        | 1          | 13               | 0             | 1            | 0                 | 14          | 0          | 61                      | 1            |
| <i>Phlogophora meticulosa</i> | 1977 | 9               | 1         | 26        | 1                  | 7        | 14         | —                | 0             | 18           | —                 | 3           | 44         | —                       | 5            |
| Angle Shades                  | 1978 | 5               | 1         | 15        | 5                  | 8        | 28         | 0                | 0             | 14           | 0                 | 2           | 6          | 3                       | 5            |
| <i>Alsophila aescularia</i>   | 1977 | 0               | 4         | 1         | 1                  | 1        | 0          | —                | 0             | 1            | —                 | 8           | 2          | —                       | 1            |
| March Moth                    | 1978 | 0               | 54        | 2         | 2                  | 11       | 2          | 46               | 0             | 8            | 8                 | 7           | 3          | 213                     | 5            |
| <i>Hepialus humuli</i>        | 1977 | 0               | 0         | 0         | 1                  | 0        | 0          | —                | 0             | 0            | —                 | 4           | 0          | —                       | 0            |
| Ghost Swift                   | 1978 | 0               | 0         | 0         | 0                  | 0        | 0          | 0                | 0             | 0            | 1                 | 0           | 0          | 1                       | 0            |
| <i>Hepialus lupulina</i>      | 1977 | 4               | 0         | 60        | 2                  | 3        | 7          | —                | 0             | 0            | —                 | 0           | 4          | —                       | 2            |
| Common Swift                  | 1978 | 0               | 0         | 82        | 11                 | 33       | 34         | 0                | 0             | 2            | 9                 | 1           | 6          | 43                      | 0            |
| <i>Agrotis ipsilon</i>        | 1977 | 0               | 0         | 0         | 0                  | 0        | 0          | —                | 0             | 0            | —                 | 0           | 0          | —                       | 0            |
| Dark Sword Grass              | 1978 | 0               | 0         | 1         | 0                  | 0        | 0          | 0                | 0             | 0            | 0                 | 0           | 0          | 0                       | 0            |
| <i>Euproctis chrysorrhoea</i> | 1977 | 0               | 0         | 0         | 0                  | 0        | 0          | —                | 0             | 0            | —                 | 0           | 0          | —                       | 0            |
| Brown-tail                    | 1978 | 1               | 0         | 0         | 0                  | 0        | 0          | 0                | 0             | 0            | 0                 | 0           | 0          | 0                       | 0            |
| <i>Agrotis exclamationis</i>  | 1977 | 145             | 1618      | 1045      | 24                 | 468      | 23         | —                | 3             | 93           | —                 | 1130        | 63         | —                       | 20           |
| Heart and Dart                | 1978 | 25              | 208       | 246       | 7                  | 182      | 53         | 233              | 5             | 42           | 63                | 122         | 53         | 12                      | 32           |
| <i>Plusia gamma</i>           | 1977 | 14              | 34        | 103       | 17                 | 22       | 6          | —                | 0             | 56           | —                 | 21          | 17         | —                       | 15           |
| Silver Y                      | 1978 | 26              | 16        | 55        | 4                  | 16       | 1          | 5                | 0             | 63           | 4                 | 21          | 12         | 54                      | 7            |
| <i>Laphygma exigua</i>        | 1977 | 0               | 0         | 0         | 0                  | 0        | 0          | —                | 0             | 0            | —                 | 0           | 0          | —                       | 0            |
| Small Mottled Willow          | 1978 | 0               | 0         | 0         | 0                  | 0        | 0          | 0                | 0             | 0            | 0                 | 0           | 0          | 0                       | 0            |
| <i>Nycterosea obstipata</i>   | 1977 | 1               | 0         | 0         | 0                  | 0        | 0          | —                | 0             | 0            | —                 | 0           | 0          | —                       | 0            |
| The Gem                       | 1978 | 0               | 0         | 0         | 0                  | 0        | 0          | 0                | 0             | 0            | 0                 | 1           | 0          | 0                       | 0            |
| <i>Nomophila noctuella</i>    | 1977 | 0               | 0         | 0         | 0                  | 0        | 0          | —                | 0             | —            | —                 | —           | 0          | —                       | 0            |
| Rush Veneer Pearl             | 1978 | 0               | 0         | 0         | 0                  | 0        | 0          | 0                | 0             | 0            | —                 | —           | 0          | 0                       | 0            |
| <i>Plutella maculipennis</i>  | 1977 | 0               | 0         | 36        | 0                  | 45       | 94         | —                | 0             | —            | —                 | —           | 0          | —                       | 21           |
| Diamond-back Moth             | 1978 | 0               | 0         | 7         | 0                  | 40       | 5          | 75               | 0             | 0            | —                 | —           | 0          | 6                       | 6            |
| <i>Udea ferrugalis</i>        | 1977 | 0               | 0         | 0         | 0                  | 0        | 0          | —                | 0             | —            | —                 | —           | 0          | —                       | 0            |
| Rusty Dot Pearl               | 1978 | 0               | 0         | 0         | 0                  | 0        | 0          | 0                | 0             | 0            | —                 | —           | 0          | 0                       | 0            |

ROTHAMSTED INSECT SURVEY

2(e)  
of moths of economic, or other importance for 1977 and 1978

|      |     | Tregaron | Llysdinam | Wellesbourne | Waresley | Luddington | Cockayne Hatley | Pershore | Shuttleworth | Rhandirmwyn | Bradwell Abbey | Tarleton | Woodstock | Rothamsted (Barnfield) | Rothamsted (Allotments) | Year                         | Pest Species                  |
|------|-----|----------|-----------|--------------|----------|------------|-----------------|----------|--------------|-------------|----------------|----------|-----------|------------------------|-------------------------|------------------------------|-------------------------------|
| 35   | 25  | 331      | 111       | 359          | 360      | 355        | 336             | 195      | 283          | 346         | 354            | 371      | 182       | 1                      | 34                      | 1977                         | <i>Abraxas grossulariata</i>  |
| 0    | 0   | 1        | 0         | 2            | 21       | 2          | 8               | 12       | 1            | 7           | —              | —        | 0         | 0                      | 0                       | 1978                         | Magpie Moth                   |
| 0    | 0   | 0        | 10        | 3            | 3        | 45         | 187             | 34       | 7            | 0           | —              | —        | 0         | 40                     | 3                       | 1977                         | <i>Agrotis segetum</i>        |
| 0    | 0   | 0        | 3         | 3            | 0        | 0          | 46              | 28       | 1            | 0           | 10             | 0        | 0         | 6                      | 0                       | 1978                         | Turnip Moth                   |
| 365  | 478 | 155      | 1         | 6            | 0        | 1          | 15              | 12       | 737          | —           | —              | —        | 2         | 0                      | 0                       | 1977                         | <i>Erannis defoliaria</i>     |
| 0    | 187 | 0        | 0         | 3            | 2        | 0          | 0               | 18       | 13           | 941         | 0              | 0        | 3         | 0                      | 0                       | 1978                         | Mottled Umber                 |
| 6    | 13  | 4        | 4         | 25           | 13       | 15         | 24              | 19       | 17           | —           | —              | —        | 1         | 1                      | 0                       | 1977                         | <i>Phlogophora meticulosa</i> |
| 0    | 0   | 0        | 0         | 19           | 5        | 4          | 22              | 11       | 5            | 5           | 7              | 1        | 1         | 0                      | 5                       | 1978                         | Angle Shades                  |
| 63   | 42  | 13       | 2         | 26           | 0        | 9          | 17              | 6        | 25           | —           | —              | —        | 1         | 2                      | 1                       | 1977                         | <i>Alsophila aescularia</i>   |
| 0    | 0   | 21       | 2         | 33           | 1        | 19         | 38              | 9        | 9            | 3           | 1              | 2        | 1         | 1                      | 0                       | 1978                         | March Moth                    |
| 0    | 0   | 0        | 0         | 0            | 1        | 1          | 2               | 0        | 0            | —           | —              | 0        | 0         | 0                      | 0                       | 1977                         | <i>Hepialus humuli</i>        |
| 0    | 0   | 2        | 0         | 0            | 0        | 0          | 2               | 0        | 0            | 0           | 0              | 0        | 0         | 0                      | 0                       | 1978                         | Ghost Swift                   |
| 0    | 0   | 0        | 1         | 8            | 13       | 46         | 9               | 1        | 0            | —           | —              | 0        | 31        | 25                     | 1977                    | <i>Hepialus lupulina</i>     |                               |
| 0    | 0   | 0        | 1         | 3            | 7        | 15         | 17              | 3        | 0            | 36          | 11             | 0        | 11        | 37                     | 1978                    | Common Swift                 |                               |
| 0    | 0   | 0        | 0         | 0            | 0        | 0          | 1               | 0        | 1            | —           | —              | 0        | 0         | 0                      | 0                       | 1977                         | <i>Agrotis ipsilon</i>        |
| 0    | 0   | 0        | 0         | 0            | 0        | 0          | 0               | 1        | 1            | 0           | 0              | 0        | 0         | 0                      | 1                       | 1978                         | Dark Sword Grass              |
| 0    | 0   | 0        | 0         | 0            | 0        | 0          | 0               | 0        | 0            | —           | —              | 0        | 0         | 0                      | 0                       | 1977                         | <i>Euproctis chrysorrhoea</i> |
| 0    | 0   | 0        | 0         | 0            | 0        | 0          | 0               | 0        | 0            | 0           | 0              | 0        | 0         | 0                      | 0                       | 1978                         | Brown-tail                    |
| 1376 | 185 | 439      | 69        | 104          | 103      | 163        | 151             | 35       | 435          | —           | —              | 5        | 78        | 13                     | 1977                    | <i>Agrotis exclamationis</i> |                               |
| 0    | 0   | 58       | 84        | 86           | 56       | 158        | 49              | 82       | 21           | 59          | 3              | 49       | 51        | 1978                   | Heart and Dart          |                              |                               |
| 29   | 12  | 23       | 14        | 92           | 19       | 32         | 48              | 29       | 65           | —           | —              | 0        | 18        | 5                      | 1977                    | <i>Plusia gamma</i>          |                               |
| 0    | 0   | 7        | 6         | 51           | 3        | 9          | 13              | 8        | 23           | 12          | 15             | 0        | 4         | 7                      | 1978                    | Silver Y                     |                               |
| 0    | 0   | 0        | 0         | 0            | 0        | 0          | 0               | 0        | 0            | —           | —              | 0        | 0         | 0                      | 0                       | 1977                         | <i>Laphygma exigua</i>        |
| 0    | 0   | 0        | 0         | 0            | 0        | 0          | 0               | 0        | 0            | 0           | 0              | 0        | 0         | 0                      | 0                       | 1978                         | Small Mottled Willow          |
| 0    | 2   | 0        | 0         | 0            | 0        | 0          | 0               | 0        | 0            | —           | —              | 0        | 0         | 0                      | 0                       | 1977                         | <i>Nycterosea obstipata</i>   |
| 0    | 0   | 0        | 0         | 0            | 0        | 0          | 0               | 0        | 0            | 0           | 0              | 0        | 0         | 0                      | 0                       | 1978                         | The Gem                       |
| —    | —   | —        | 0         | 0            | 0        | 0          | 0               | 0        | 0            | —           | —              | 0        | 0         | 0                      | 0                       | 1977                         | <i>Nomophila noctuella</i>    |
| —    | —   | —        | 0         | 0            | 0        | 0          | 0               | —        | 0            | 0           | 0              | 0        | 0         | 0                      | 0                       | 1978                         | Rush Veneer Pearl             |
| —    | —   | —        | 307       | 42           | 37       | 89         | 2               | 14       | 1            | —           | —              | 1        | 259       | 86                     | 1977                    | <i>Plutella maculipennis</i> |                               |
| —    | —   | —        | 44        | 16           | 92       | 7          | —               | —        | 1            | 0           | 0              | 0        | 201       | 130                    | 1978                    | Diamond-back Moth            |                               |
| —    | —   | —        | 0         | 0            | 0        | 0          | 0               | 0        | 3            | —           | —              | 0        | 0         | 0                      | 0                       | 1977                         | <i>Udea ferrugalis</i>        |
| —    | —   | —        | 0         | 0            | 0        | 0          | 0               | —        | 11           | 0           | 0              | 0        | 0         | 0                      | 0                       | 1978                         | Rusty Dot Pearl               |

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TABLE  
The Rothamsted Insect Survey—Light Traps: annual records

| Pest Species                                      | Year | Rothamsted (Geescroft) |     |     |      |     |     |     |      |     |     |     |     |     |     |
|---------------------------------------------------|------|------------------------|-----|-----|------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|
|                                                   |      | 22                     | 87  | 374 | 332  | 305 | 292 | 213 | 357  | 180 | 347 | 370 | 130 | 171 | 384 |
| <i>Abraxas grossulariata</i><br>Magpie Moth       | 1977 | 41                     | 1   | —   | 20   | 3   | 3   | 13  | 31   | 5   | —   | 3   | 0   | 0   | —   |
|                                                   | 1978 | 54                     | 7   | 24  | 18   | 5   | 1   | 5   | 37   | 6   | 6   | 0   | 0   | 0   | 0   |
| <i>Agrotis segetum</i><br>Turnip Moth             | 1977 | 21                     | 2   | —   | 0    | 1   | 0   | 0   | 3    | 0   | —   | 5   | 0   | 0   | —   |
|                                                   | 1978 | 7                      | 8   | 0   | 0    | 0   | 0   | 0   | 0    | 0   | 1   | 0   | 1   | 0   | 0   |
| <i>Erannis defoliaria</i><br>Mottled Umber        | 1977 | 16                     | 0   | —   | 0    | 1   | 55  | 26  | 26   | 16  | —   | 0   | 0   | 30  | —   |
|                                                   | 1978 | 16                     | 1   | 0   | 2    | 1   | 47  | 31  | 38   | 8   | 0   | 0   | 1   | 26  | 0   |
| <i>Phlogophora meticulosa</i><br>Angle Shades     | 1977 | 12                     | 6   | —   | 7    | 6   | 23  | 1   | 19   | 3   | —   | 0   | 5   | 1   | —   |
|                                                   | 1978 | 12                     | 1   | 4   | 3    | 6   | 22  | 1   | 6    | 1   | 4   | 1   | 1   | 3   | 0   |
| <i>Alsophila aescularia</i><br>March Moth         | 1977 | 38                     | 1   | —   | 9    | 1   | 5   | 11  | 13   | 11  | —   | 0   | 0   | 5   | —   |
|                                                   | 1978 | 40                     | 3   | 2   | 1    | 0   | 6   | 39  | 19   | 6   | 0   | 0   | 0   | 8   | 0   |
| <i>Hepialus humuli</i><br>Ghost Swift             | 1977 | 0                      | 0   | —   | 3    | 0   | 0   | 0   | 0    | 0   | —   | 0   | 0   | 0   | —   |
|                                                   | 1978 | 0                      | 0   | 1   | 5    | 0   | 0   | 7   | 2    | 1   | 0   | 0   | 0   | 0   | 0   |
| <i>Hepialus lupulina</i><br>Common Swift          | 1977 | 15                     | 2   | —   | 0    | 19  | 6   | 3   | 0    | 3   | —   | 34  | 0   | 13  | —   |
|                                                   | 1978 | 9                      | 2   | 7   | 0    | 9   | 4   | 0   | 1    | 8   | 17  | 27  | 0   | 33  | 3   |
| <i>Agrotis ipsilon</i><br>Dark Sword Grass        | 1977 | 0                      | 0   | —   | 0    | 0   | 3   | 0   | 2    | 0   | —   | 0   | 0   | 0   | —   |
|                                                   | 1978 | 0                      | 1   | 0   | 0    | 1   | 3   | 0   | 3    | 0   | 0   | 0   | 0   | 0   | 0   |
| <i>Euproctis chrysorrhoea</i><br>Brown-tail       | 1977 | 0                      | 2   | —   | 0    | 0   | 0   | 0   | 0    | 0   | —   | 285 | 0   | 0   | —   |
|                                                   | 1978 | 0                      | 2   | 0   | 0    | 6   | 0   | 0   | 0    | 0   | 0   | 54  | 0   | 0   | 0   |
| <i>Agrotis exclamationis</i><br>Heart and Dart    | 1977 | 29                     | 44  | —   | 2162 | 11  | 169 | 190 | 4337 | 41  | —   | 62  | 54  | 31  | —   |
|                                                   | 1978 | 24                     | 70  | 29  | 226  | 16  | 24  | 80  | 386  | 27  | 28  | 34  | 35  | 21  | 27  |
| <i>Plusia gamma</i><br>Silver Y                   | 1977 | 51                     | 25  | —   | 5    | 63  | 85  | 24  | 138  | 3   | —   | 43  | 3   | 46  | —   |
|                                                   | 1978 | 12                     | 8   | 34  | 11   | 25  | 25  | 12  | 68   | 5   | 21  | 15  | 5   | 22  | 2   |
| <i>Laphygma exigua</i><br>Small Mottled Willow    | 1977 | 0                      | 0   | —   | 0    | 0   | 0   | 0   | 0    | 0   | —   | 0   | 0   | 0   | —   |
|                                                   | 1978 | 0                      | 0   | 0   | 0    | 0   | 0   | 0   | 0    | 0   | 0   | 0   | 0   | 0   | 0   |
| <i>Nycterosea obstipata</i><br>The Gem            | 1977 | 0                      | 0   | —   | 0    | 0   | 0   | 0   | 9    | 0   | —   | 0   | 0   | 0   | —   |
|                                                   | 1978 | 0                      | 0   | 0   | 0    | 0   | 0   | 0   | 5    | 0   | 0   | 0   | 0   | 0   | 0   |
| <i>Nomophila noctuella</i><br>Rush Veneer Pearl   | 1977 | 0                      | 0   | —   | —    | 0   | 0   | 0   | —    | 0   | —   | 0   | 0   | 0   | —   |
|                                                   | 1978 | 0                      | 0   | 0   | —    | 0   | 0   | 0   | —    | 0   | 0   | 0   | 0   | 0   | 0   |
| <i>Plutella maculipennis</i><br>Diamond-back Moth | 1977 | 4                      | 112 | —   | —    | 21  | 0   | 0   | —    | 3   | —   | 137 | 0   | 2   | —   |
|                                                   | 1978 | 0                      | 66  | 0   | —    | 5   | 0   | 0   | —    | 1   | 23  | 122 | 0   | 4   | 60  |
| <i>Udea ferrugalis</i><br>Rusty Dot Pearl         | 1977 | 0                      | 0   | —   | —    | 0   | 0   | 0   | —    | 0   | —   | 0   | 0   | 0   | —   |
|                                                   | 1978 | 0                      | 0   | 0   | —    | 0   | 0   | 0   | —    | 0   | 0   | 0   | 0   | 0   | 0   |

## ROTHAMSTED INSECT SURVEY

2(f)  
of moths of economic, or other importance for 1977 and 1978

|     | Wisley | Wye | Alice Holt | Haslemere | Winchester | Lydd | Denny Lodge | Starcross | Yarner Wood I | Yarner Wood II | Slapton Ley | Rosewarne | Guernsey | Jersey | Year                          | Pest Species                 |
|-----|--------|-----|------------|-----------|------------|------|-------------|-----------|---------------|----------------|-------------|-----------|----------|--------|-------------------------------|------------------------------|
|     | 289    | 181 | 46         | 219       | 379        | 366  | 368         | 149       | 266           | 308            | 67          | 114       | 252      | 146    |                               |                              |
| 0   | 39     | 1   | 0          | 0         | 13         | 0    | 0           | 0         | 2             | 0              | 10          | 4         | 28       | 3      | 1977                          | <i>Abraxas grossulariata</i> |
| 0   | 52     | 1   | 0          | 23        | 4          | 0    | 0           | 2         | 0             | 7              | 16          | 3         | 22       | 5      | 1978                          | Magpie Moth                  |
| 3   | 16     | 0   | 1          | —         | 0          | 0    | 2           | 0         | 0             | 0              | 4           | 3         | 1        | 1977   | <i>Agrotis segetum</i>        |                              |
| 4   | 0      | 0   | 0          | 3         | 0          | 0    | 1           | 0         | 0             | 1              | 8           | 2         | 0        | 1978   | Turnip Moth                   |                              |
| 5   | 5      | 22  | 17         | —         | 0          | 31   | 0           | 69        | 171           | 0              | 0           | 0         | 0        | 1977   | <i>Erannis defoliaria</i>     |                              |
| 3   | 14     | 18  | 6          | 0         | 0          | 10   | 1           | 96        | 201           | 1              | 0           | 0         | 0        | 1978   | Mottled Umber                 |                              |
| 9   | 21     | 4   | 4          | —         | 3          | 1    | 1           | 11        | 4             | 3              | 0           | 0         | 1        | 1977   | <i>Phlogophora meticulosa</i> |                              |
| 4   | 37     | 1   | 2          | 5         | 3          | 0    | 2           | 5         | 2             | 4              | 3           | 2         | 3        | 1978   | Angle Shades                  |                              |
| 4   | 27     | 13  | 4          | —         | 0          | 4    | 0           | 17        | 17            | 1              | 3           | 0         | 3        | 1977   | <i>Alsophila aescularia</i>   |                              |
| 9   | 30     | 4   | 2          | 3         | 1          | 3    | 2           | 16        | 21            | 2              | 2           | 0         | 7        | 1978   | March Moth                    |                              |
| 0   | 0      | 0   | 1          | —         | 0          | 0    | 0           | 0         | 0             | 0              | 1           | 0         | 0        | 1977   | <i>Hepialus humuli</i>        |                              |
| 0   | 0      | 0   | 0          | 0         | 0          | 0    | 0           | 0         | 0             | 0              | 3           | 0         | 0        | 1978   | Ghost Swift                   |                              |
| 0   | 55     | 2   | 1          | —         | 54         | 2    | 0           | 0         | 0             | 0              | 3           | 0         | 0        | 1977   | <i>Hepialus lupulina</i>      |                              |
| 2   | 10     | 4   | 0          | 0         | 33         | 0    | 0           | 0         | 0             | 1              | 0           | 0         | 0        | 1978   | Common Swift                  |                              |
| 0   | 3      | 0   | 0          | —         | 1          | 0    | 1           | 2         | 0             | 1              | 0           | 0         | 0        | 1977   | <i>Agrotis ipsilon</i>        |                              |
| 0   | 4      | 0   | 0          | 0         | 0          | 0    | 0           | 0         | 0             | 1              | 0           | 0         | 1        | 1978   | Dark Sword Grass              |                              |
| 0   | 2      | 0   | 0          | —         | 10         | 0    | 0           | 0         | 0             | 0              | 0           | 0         | 0        | 1977   | <i>Euproctis chrysorrhoea</i> |                              |
| 0   | 1      | 0   | 0          | 0         | 21         | 0    | 0           | 0         | 0             | 0              | 0           | 0         | 0        | 1978   | Brown-tail                    |                              |
| 53  | 219    | 36  | 67         | —         | 62         | 12   | 359         | 523       | 136           | 665            | 576         | 56        | 94       | 1977   | <i>Agrotis exclamationis</i>  |                              |
| 56  | 160    | 34  | 21         | 83        | 25         | 11   | 19          | 19        | 2             | 64             | 97          | 11        | 23       | 1978   | Heart and Dart                |                              |
| 28  | 82     | 25  | 42         | —         | 16         | 5    | 11          | 73        | 70            | 24             | 62          | 8         | 26       | 1977   | <i>Plusia gamma</i>           |                              |
| 20  | 25     | 7   | 15         | 12        | 9          | 6    | 6           | 26        | 20            | 18             | 11          | 9         | 24       | 1978   | Silver Y                      |                              |
| 0   | 0      | 0   | 0          | —         | 0          | 0    | 0           | 0         | 0             | 0              | 0           | 0         | 0        | 1977   | <i>Laphygma exigua</i>        |                              |
| 0   | 0      | 0   | 0          | 0         | 0          | 0    | 0           | 0         | 0             | 0              | 0           | 0         | 0        | 1978   | Small Mottled Willow          |                              |
| 0   | 0      | 0   | 0          | —         | 0          | 0    | 0           | 4         | 0             | 0              | 0           | 0         | 0        | 1977   | <i>Nycterosea obstipata</i>   |                              |
| 0   | 0      | 0   | 0          | 0         | 0          | 1    | 0           | 1         | 1             | 0              | 1           | 2         | 1        | 1978   | The Gem                       |                              |
| 0   | 0      | 0   | 0          | —         | 0          | 0    | 0           | —         | —             | 0              | 0           | 0         | 0        | 1977   | <i>Nomophila noctuella</i>    |                              |
| 1   | 0      | 0   | 0          | 0         | 0          | 0    | 0           | 0         | 0             | 0              | 6           | 2         | 1        | 1978   | Rush Veneer Pearl             |                              |
| 190 | 42     | 36  | 24         | —         | 85         | 0    | 114         | —         | —             | 0              | 182         | 281       | 85       | 1977   | <i>Plutella maculipennis</i>  |                              |
| 101 | 67     | 17  | 9          | 0         | 0          | 0    | 24          | 4         | 1             | 0              | 276         | 125       | 62       | 1978   | Diamond-back Moth             |                              |
| 0   | 2      | 0   | 0          | —         | 0          | 0    | 0           | —         | —             | 0              | 3           | 0         | 1        | 1977   | <i>Udea ferrugalis</i>        |                              |
| 0   | 9      | 0   | 1          | 0         | 0          | 0    | 11          | 9         | 2             | 0              | 17          | 8         | 17       | 1978   | Rusty Dot Pearl               |                              |