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ROTHAMSTED  
RESEARCH

## Rothamsted Experimental Station Report for 1987

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### Rothamsted Insect Survey, Nineteenth Annual Summary

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

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## Rothamsted Insect Survey

### Nineteenth Annual Summary

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

#### Suction traps 1987

Samples were collected daily from 6 April to 11 November 1987, and weekly for the remainder of the year. These data were included in the *Aphid Bulletin*, which was issued weekly from 13 April (Bulletin No. 1) to 8 November (Bulletin No. 30). The 33 aphid taxa listed in Table 1 (a-i) are those in the *Aphid Bulletin*. The *Aphid Commentary* was issued with the *Aphid Bulletin* on 16 occasions during 1987. The Commentary provided regional interpretations of current trap samples for eight of the aphid pests of cereals, potatoes, sugar beet, field beans, hops, apples and peas. These interpretations were also made available via Prestel Farmlink and Agviser, two agricultural viewdata services.

The *Aphid Bulletin* and *Aphid Commentary* despatched each Friday, provided information on aphids sampled between 5 and 12 days earlier. This timing is dictated by the postal services.

The *Aphid Bulletin* and *Aphid Commentary* cover the working week Monday to Sunday. Table 1 is for standard four-week periods constant from year to year (see *Rothamsted Report for 1972*, Part 2, 211, Table 4). *Aphid Bulletin* and standard weeks do not correspond in 1987.

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

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

The trap at Aberystwyth (911), operated from 6 April to 17 December, except the period 25 June to 16 July when it was out of order.

The trap at Headley Hall, Tadcaster (937), only operated from 1 August to 11 November 1987. The results from this trap appear in neither Table 1 nor the *Aphid Bulletin* during 1987.

Suction traps sampling at 5ft (1.5m) were operating at East Craigs (954) and Rothamsted Tower (951) in 1987. Records for these do not appear in the *Aphid Bulletin*.

Sample volumes were halved at various sites as follows:- Preston (922) from 13 July to 13 October, Kirton (934) from 21 September to 11 October, Shardlow (919) from 13 July to 9 August and from 21 September to 11 October, Aberystwyth (911) from 21 September to 13 October, Hereford (917) from 13 July to 9 August and from 21 September to 12 October, Rothamsted Tower (901) from 10 July to 3 August and from 21 September to 11 October, Writtle (924) from 13 July to 11 October, Long Ashton (936) from 13 July to 9 August and from 21 September to 12 October, Silwood Park (908) from 13 July to 13 October, Wye (903) from 13 July to 3 August and 24 September to 11 October, Littlehampton (933) from 13 July to 3 August and from 21 September to 11 October, Starcross (913) from 21 September to 11 October, Tadcaster (937) from 21 September to 13 October. The weekly *Bulletins* and Table 1 are corrected to full volume sample.

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

Aphid samples were identified at Rothamsted by Maureen Dupuch, Mark Taylor, Susan Parker, Debbie Riley, Janice Payne and Lynda Alderson; at East Craigs by Dr K.F.A. Walters, Mr D.G. Marr and Mr F.G. Doyle of DAFS; at Broom's Barn by Mr W.A. Thornhill and Dr A.M. Dewar. We appreciate their co-operation in providing information for the weekly *Aphid Bulletin* and *Aphid Commentary* and for Table 1.

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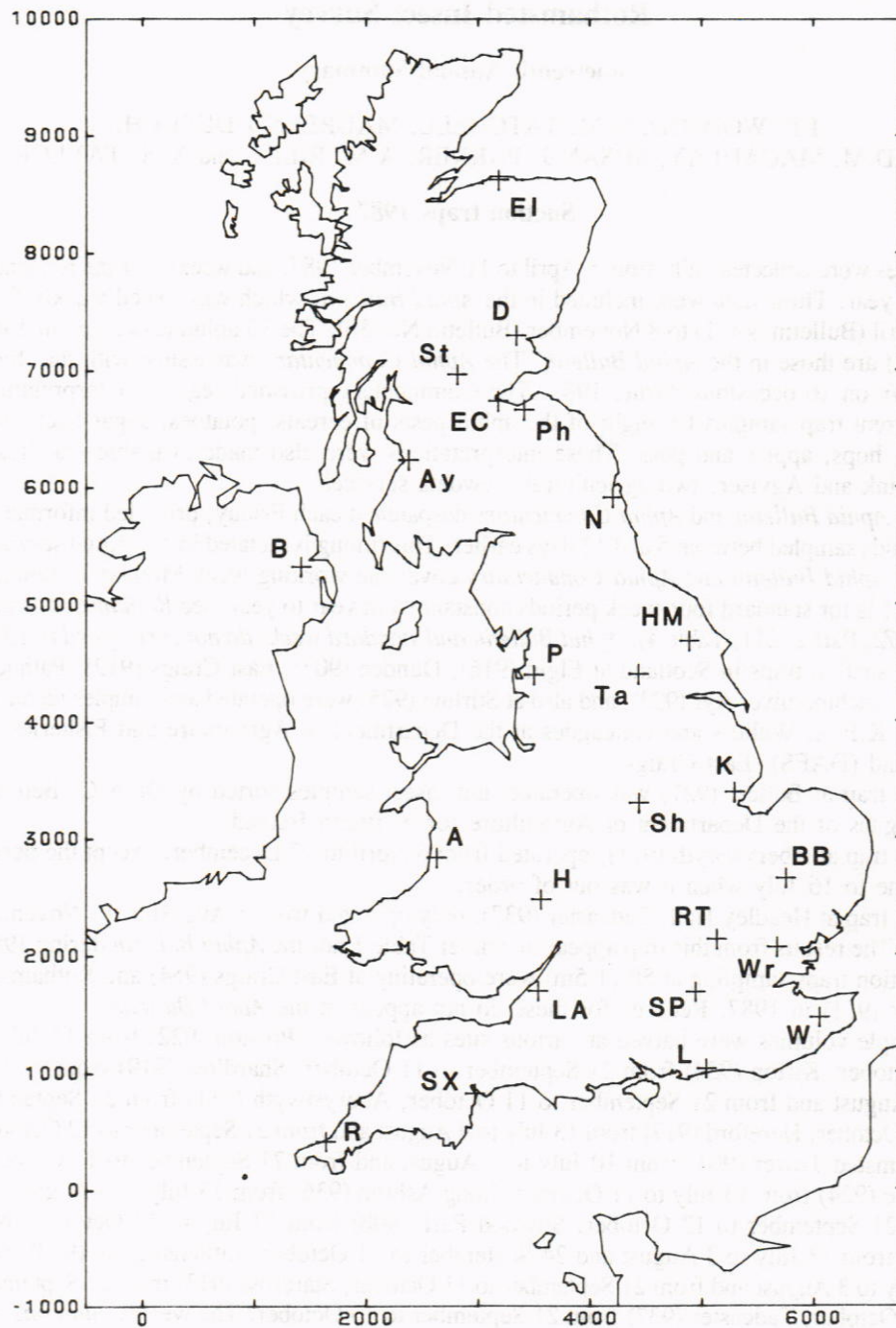


Fig. 1(a) Distribution of 24 12.2 metre suction trap sites operating during 1987

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

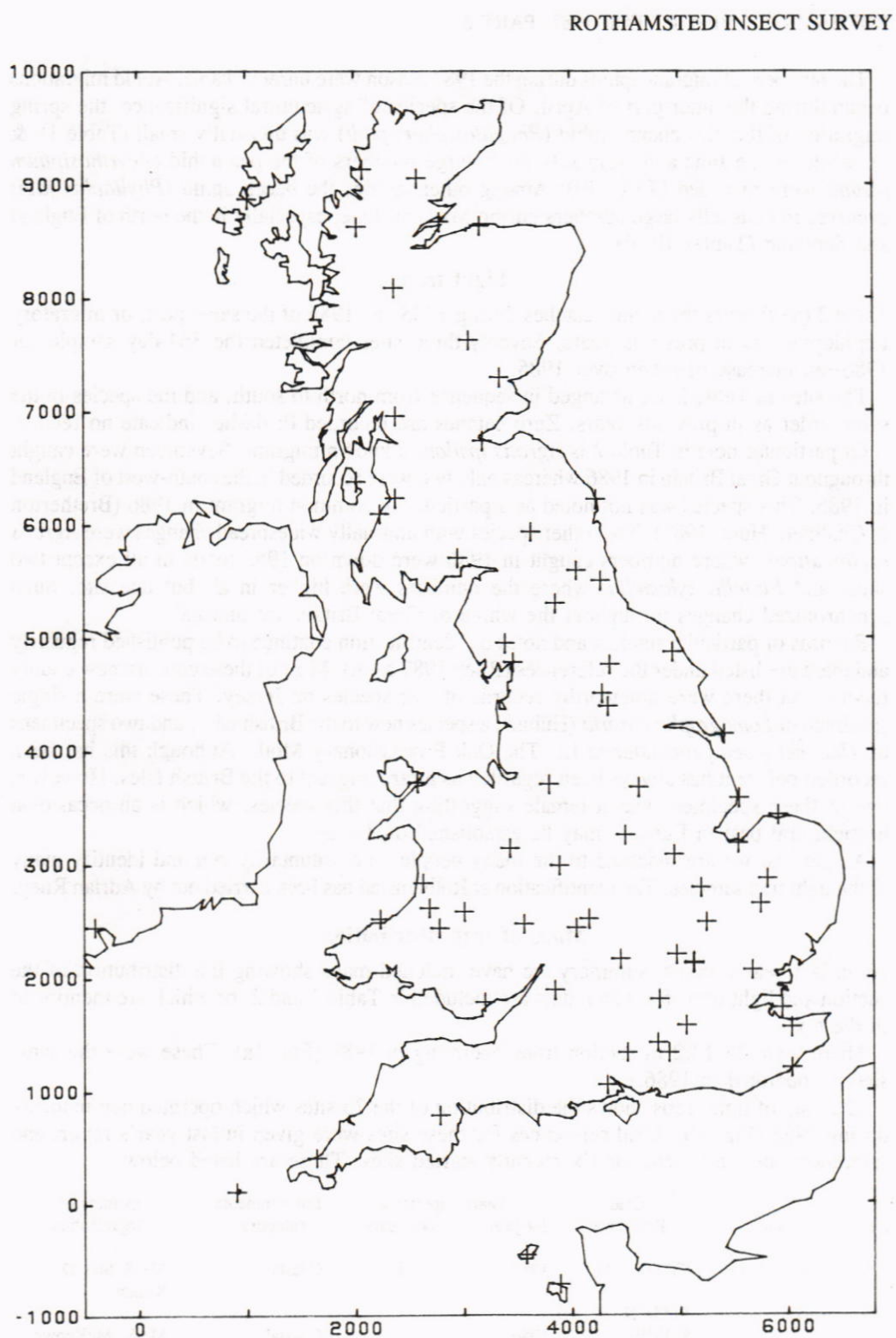


Fig. 1(b) Distribution of the 73 light trap sites in continuous operation during 1986

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The numbers of migrant aphids during the 1987 season were unremarkable. Aphid migrations began during the latter part of April. Of the species of agricultural significance, the spring migration of the bird cherry aphid (*Rhopalosiphum padi*) was unusually small (Table 1b & c), while in late June and early July fairly large numbers of the pea aphid (*Acyrtosiphum pisum*) were recorded (Table 1d). Among other species the beech aphid (*Phyllaphis fagi*) occurred in unusually large numbers during May and June, especially in the north of England and Scotland (Tables 1b–d).

## Light traps

Table 2 (a–f) gives the annual catches during 1985 and 1986 of the same pest, or migratory Lepidoptera as in previous years. Seventy-three sites completed the 364-day sample for 1986—an increase of seven over 1985.

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

Of particular note in Table 2 is *Agrotis ipsilon*, a known migrant. Seventeen were caught throughout Great Britain in 1986 whereas only two were recorded in the south-west of England in 1985. This species was not noted as a particularly common migrant in 1986 (Bretherton & Chalmers-Hunt, 1987). Two other species with unusually widespread changes were *Agrotis exclamatoris* where numbers caught in 1986 were down on 1985 totals in all except two sites, and *Plutella xylostella*, where the numbers were higher in all but one site. Such synchronized changes throughout the whole of Great Britain are unusual.

Records of particular interest and notes on identification continue to be published regularly and these are listed under the references (Riley 1987 a–m). Most of these concern new county records but there were noteworthy records of two species on Jersey. These were a single specimen of *Lomographa cararia* (Hübner), a species new to the British Isles, and two specimens of *Thaumetopoea processionea* L., The Oak Processionary Moth. Although this has been recorded before it has always been regarded as a rare migrant to the British Isles. However, one of these specimens was a female suggesting that this species, which is an occasional horticultural pest in Europe, may be established on Jersey.

As always, we are indebted to the many people who voluntarily run and identify many of the light trap samples. The identification at Rothamsted has been carried out by Adrian Riley.

## Maps of trap distribution

As in last year's annual summary we have included maps showing the distribution of the suction and light traps for which data are included in Table 1 and 2, or which are mentioned in the text.

There were 24 12.2 m suction traps operating in 1987 (Fig. 1a). These were the same sites as operated in 1986.

The map of light traps shows the distribution of the 73 sites which operated continuously during 1986 (Fig. 1b). Grid references for these sites were given in last year's report and references therein except for six recently started sites. These are listed below.

| No. | Name            | Grid Reference    | Years operating<br>1st year | No. years | Environmental category | Operator or Organization |
|-----|-----------------|-------------------|-----------------------------|-----------|------------------------|--------------------------|
| 450 | Isles of Scilly | SV 901 104        | 1985                        | 1         | Coastal                | Mr & Mrs D. Knight       |
| 459 | Cork            | 51°54'N<br>8°19'W | 1986                        | 1         | Coastal                | Mr S. McKeown            |
| 462 | Lydd IV         | TR 044 203        | 1986                        | 1         | Farmland               | Mr A. Heath              |
| 463 | Luddington III  | SP 162 523        | 1986                        | 1         | Farmland               | Mrs K. Littlewood        |
| 464 | Embleton        | NU 232 227        | 1986                        | 1         | Mixed                  | Mrs B. Dodd              |
| 465 | Shadwell        | SE 343 394        | 1986                        | 1         | Farmland               | Dr S.L. Sutton           |

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## REFERENCES

- BRETHERTON, R.F. & CHALMERS-HUNT, J.M. (1987) The immigration of Lepidoptera to the British Isles in 1986. *Entomologist's Record* **99** , 189-194.
- RILEY, A.M. (1987a) A further diagnostic feature for the separation of *Eilema lurideola* Zincken and *E. complana* L. (Lep.: Arctiidae). *Entomologist's Record* **99** , 28.
- RILEY, A.M. (1987b) *Lomographa cararia* (Hübner) (Lep.: Geometridae) on Jersey—A new species to the Channel Islands and the British Isles. *Entomologist's Record* **99** , 65-66.
- RILEY, A.M. (1987c) Pinion-spotted Pug (*Eupithecia insigniata* Hübner) (Lep.: Geometridae) in Suffolk. *Entomologist's Record* **99** , 66.
- RILEY, A.M. (1987d) Pimpinel Pug (*Eupithecia pimpinellata* Hübner) (Lep.: Geometridae) in Leicestershire. *Entomologist's Record* **99** , 68.
- RILEY, A.M. (1987e) More on wing mounts. *Antenna* **11** , No. 3, 90.
- RILEY, A.M. (1987f) White-spotted Pug (*Eupithecia tripunctaria* H.-S.) (Lep.: Geometridae) in Cardiganshire. *Entomologist's Record* **99** , 129.
- RILEY, A.M. (1987g) *Eupithecia lariciata* Freyer (Lep.: Geometridae), The Larch Pug in Dumfries-shire. *Entomologist's Record* **99** , 152.
- RILEY, A.M. (1987h) *Cleora cinctaria* D. & S. (Lep.: Geometridae), The Ringed Carpet in Dumfries-shire. *Entomologist's Record* **99** , 160.
- RILEY, A.M. (1987i) *Eupithecia virgaureata* Doubl. (Lep.: Geometridae), The Goldenrod Pug in Dumfries-shire. *Entomologist's Record* **99** , 184.
- RILEY, A.M. (1987j) Further records of *Thaumetopoea processionea* L. (Oak Processionary Moth) (Lep.: Thaumetopoeidae) on Jersey. *Entomologist's Record* **99** , 225-226.
- RILEY, A.M. (1987k) Early records of *Eupithecia tenuiata* Hübner. (Slender Pug) :in Inverness-shire. *Entomologist's Record* **99** , 257.
- RILEY, A.M. (1987l) *Chloroclystis chloerata* Mab. (The Sloe Pug) (Lep.: Geometridae) in Leicestershire. *Entomologist's Record* **99** , 260.
- RILEY, A.M. (1987m) A guide to the separation of *Lampropteryx*, *Ecliptopera* and *Electrophaes* species. (Lep.: Geometridae). *Entomologist's Record* **99** , 281-282.

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TABLE

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

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

First aphid caught

Rosewarne 29 January—4 February, 1 *Sitobion fragariae*

## ROTHAMSTED INSECT SURVEY

1(a)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1987  
26 March to 22 April 1987

| Sites                |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | Species                            |
|----------------------|-----------------------|-------------------|---------------------------|------------------|-------------------------|-----------------------|--------------------|------------------------|--------------------|--------------------|------------------------------------|
| Aberystwyth<br>(911) | Broom's Barn<br>(904) | Hereford<br>(917) | Rothamsted Tower<br>(901) | Writtle<br>(924) | Long Ashton II<br>(936) | Silwood Park<br>(908) | Wye, Kent<br>(903) | Littlehampton<br>(933) | Starcross<br>(913) | Rosewarne<br>(910) |                                    |
|                      |                       |                   |                           |                  |                         |                       | 1                  | 1                      |                    | 1                  | <i>Acyrtosiphon pisum</i>          |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Amphorophora rubi</i>           |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Aphis fabae</i> grp.            |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Aphis</i> spp.                  |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Aulacorthum solani</i>          |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Brachycaudus helichrysi</i>     |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Brevicoryne brassicae</i>       |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Cavariella aegopodii</i>        |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Chaetosiphon fragaefolii</i>    |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Cinara</i> spp.                 |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Drepanosiphum platanoidis</i>   |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Dysaphis plantaginea</i>        |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Elatobium abietinum</i>         |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Eriosoma ulmi</i>               |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Hyalopterus pruni</i>           |
|                      |                       |                   |                           |                  |                         | 1                     |                    |                        | 1                  |                    | <i>Hyperomyzus lactucae</i>        |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Macrosiphum euphorbiae</i>      |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Megoura viciae</i>              |
|                      |                       |                   |                           |                  | 1                       |                       |                    |                        | 1                  |                    | <i>Metopolophium dirhodum</i>      |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Metopolophium festucae</i> s.l. |
|                      | 1                     |                   | 1                         |                  |                         |                       |                    |                        | 1                  | 1                  | <i>Myzus ascalonicus</i>           |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Myzus certus</i>                |
|                      |                       |                   |                           |                  | 1                       |                       |                    |                        |                    |                    | <i>Myzus ornatus</i>               |
|                      |                       |                   |                           |                  |                         |                       |                    |                        | 1                  |                    | <i>Myzus persicae</i> grp.         |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Nasonovia ribisnigri</i>        |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Pemphigus</i> spp.              |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Phorodon humuli</i>             |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Phyllaphis fagi</i>             |
|                      |                       |                   |                           |                  |                         | 1                     |                    |                        |                    |                    | <i>Rhopalosiphum insertum</i>      |
|                      |                       |                   |                           |                  |                         | 1                     |                    |                        |                    |                    | <i>Rhopalosiphum maidis</i>        |
| 3                    |                       |                   |                           |                  |                         |                       |                    |                        |                    | 1                  | <i>Rhopalosiphum padi</i>          |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Sitobion avenae</i>             |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    | 1                  | <i>Sitobion fragariae</i>          |
| April<br>15          | April<br>16           |                   | April<br>17               |                  | April<br>14             | April<br>12           | April<br>21        | April<br>2-5           | April<br>12        | Jan 29<br>-Feb 4   | First aphid caught                 |

ROTHAMSTED REPORT FOR 1987, PART 2

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

| Sites                              | Elgin<br>(916) | Dundee<br>(907) | Edinburgh<br>(912) | Pathhead<br>(931) | Auchincruive<br>(923) | Newcastle<br>(906) | Belfast<br>(927) | High Mowthorpe<br>(905) | Preston<br>(922) | Kirton<br>(934) | Shardlow<br>(919) |
|------------------------------------|----------------|-----------------|--------------------|-------------------|-----------------------|--------------------|------------------|-------------------------|------------------|-----------------|-------------------|
| Species                            |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Acyrtosiphon pisum</i>          |                |                 |                    |                   |                       |                    |                  |                         |                  | 1               |                   |
| <i>Amphorophora rubi</i>           |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Aphis fabae</i> grp.            |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Aphis</i> spp.                  |                |                 |                    |                   |                       |                    |                  |                         |                  |                 | 2                 |
| <i>Aulacorthum solani</i>          |                |                 |                    |                   |                       |                    | 1                |                         | 1                |                 |                   |
| <i>Brachycaudus helichrysi</i>     |                |                 | 1                  |                   |                       |                    | 2                |                         | 1                |                 | 8                 |
| <i>Brevicoryne brassicae</i>       |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Cavariella aegopodii</i>        |                |                 |                    |                   |                       |                    | 2                |                         |                  |                 | 2                 |
| <i>Chaetosiphon fragaefolii</i>    |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Cinara</i> spp.                 |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Drepanosiphum platanoidis</i>   | 109            | 156             | 6788               | 1960              | 792                   | 2399               | 808              | 410                     | 2257             | 168             | 5632              |
| <i>Dysaphis plantaginea</i>        |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Elatobium abietinum</i>         | 1              |                 | 14                 | 27                | 23                    | 40                 | 19               |                         | 9                | 1               | 10                |
| <i>Eriosoma ulmi</i>               |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Hyalopterus pruni</i>           |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Hyperomyzus lactucae</i>        |                |                 |                    |                   | 1                     |                    | 2                |                         |                  |                 |                   |
| <i>Macrosiphum euphorbiae</i>      |                |                 |                    | 1                 |                       |                    | 2                |                         |                  | 3               |                   |
| <i>Megoura viciae</i>              |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Metopolophium dirhodum</i>      |                |                 |                    | 1                 |                       |                    | 8                |                         |                  |                 | 3                 |
| <i>Metopolophium festucae</i> s.l. |                |                 |                    |                   |                       |                    | 5                |                         | 1                |                 | 39                |
| <i>Myzus ascalonicus</i>           |                |                 | 5                  | 2                 | 2                     | 3                  | 24               | 2                       | 3                | 12              | 19                |
| <i>Myzus certus</i>                |                |                 |                    |                   |                       |                    |                  |                         |                  |                 | 1                 |
| <i>Myzus ornatus</i>               |                |                 |                    |                   |                       |                    | 2                |                         |                  |                 |                   |
| <i>Myzus persicae</i> grp.         |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Nasonovia ribisnigri</i>        |                |                 |                    |                   |                       |                    |                  |                         | 1                |                 |                   |
| <i>Pemphigus</i> spp.              |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Phorodon humuli</i>             |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Phyllaphis fagi</i>             | 3              | 11              | 105                | 48                | 55                    | 15                 | 18               |                         | 17               | 1               | 22                |
| <i>Rhopalosiphum insertum</i>      |                |                 |                    | 1                 | 2                     |                    | 11               |                         | 7                |                 | 34                |
| <i>Rhopalosiphum maidis</i>        |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Rhopalosiphum padi</i>          |                |                 | 2                  |                   | 1                     |                    | 6                |                         |                  |                 |                   |
| <i>Sitobion avenae</i>             |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Sitobion fragariae</i>          |                |                 |                    |                   |                       |                    | 7                |                         |                  |                 |                   |
| First aphid caught                 | May<br>7       | April<br>30     | April<br>25        | April<br>24       | April<br>24           | May<br>7           | April<br>24      | April<br>30             | April<br>24      | April<br>27     | April<br>23-26    |

## ROTHAMSTED INSECT SURVEY

1(b)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1987  
23 April to 20 May 1987

|    | Aberystwyth<br>(911) | Broom's Barn<br>(904) | Hereford<br>(917) | Rothamsted Tower<br>(901) | Writtle<br>(924) | Long Ashton II<br>(936) | Silwood Park<br>(908) | Wye, Kent<br>(903) | Littlehampton<br>(933) | Starcross<br>(913) | Rosewarne<br>(910) | Sites | Species                            |
|----|----------------------|-----------------------|-------------------|---------------------------|------------------|-------------------------|-----------------------|--------------------|------------------------|--------------------|--------------------|-------|------------------------------------|
|    |                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       |                                    |
|    |                      | 2                     |                   | 1                         | 1                | 1                       | 3                     | 2                  | 3                      |                    |                    |       | <i>Acyrtosiphon pisum</i>          |
|    |                      |                       |                   |                           |                  | 1                       |                       |                    |                        | 1                  |                    |       | <i>Amphorophora rubi</i>           |
|    |                      |                       |                   |                           | 2                | 1                       | 3                     | 2                  | 1                      | 1                  | 1                  |       | <i>Aphis fabae</i> grp.            |
|    |                      |                       |                   |                           |                  | 6                       | 1                     |                    | 1                      | 2                  | 14                 |       | <i>Aphis</i> spp.                  |
| 1  |                      |                       | 8                 | 2                         | 3                | 36                      | 30                    |                    | 4                      | 8                  | 1                  |       | <i>Aulacorthum solani</i>          |
|    |                      |                       |                   |                           |                  |                         |                       |                    |                        | 1                  |                    |       | <i>Brachycaudus helichrysi</i>     |
|    |                      | 1                     | 1                 | 4                         |                  | 2                       | 22                    |                    | 1                      | 4                  |                    |       | <i>Brevicoryne brassicae</i>       |
|    |                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Cavariella aegopodii</i>        |
|    |                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Chaetosiphon fragaefolii</i>    |
|    |                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Cinara</i> spp.                 |
| 15 | 1515                 | 1253                  | 1568              | 124                       | 2309             | 2962                    | 128                   | 123                | 21                     |                    |                    |       | <i>Drepanosiphum platanoidis</i>   |
|    |                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Dysaphis plantaginea</i>        |
| 63 | 11                   | 38                    | 27                | 12                        | 34               | 190                     | 6                     | 15                 | 26                     | 13                 |                    |       | <i>Elatobium abietinum</i>         |
|    |                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Eriosoma ulmi</i>               |
|    |                      |                       |                   |                           |                  | 3                       | 3                     |                    |                        |                    | 1                  |       | <i>Hyalopterus pruni</i>           |
|    |                      |                       |                   | 6                         | 2                | 5                       | 5                     | 1                  | 7                      |                    | 14                 |       | <i>Hyperomyzus lactucae</i>        |
|    |                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Macrosiphum euphorbiae</i>      |
|    |                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Megoura viciae</i>              |
|    |                      |                       | 1                 | 2                         | 2                | 4                       | 2                     |                    | 2                      | 14                 | 4                  |       | <i>Metopolophium dirhodum</i>      |
| 2  |                      | 41                    | 2                 | 3                         | 39               | 71                      | 3                     | 44                 | 11                     | 6                  | 6                  |       | <i>Metopolophium festucae</i> s.l. |
|    | 7                    | 10                    | 22                | 13                        | 17               | 41                      | 5                     | 19                 | 11                     | 17                 | 17                 |       | <i>Myzus ascalonicus</i>           |
|    |                      |                       |                   |                           | 1                | 1                       |                       |                    |                        |                    | 9                  |       | <i>Myzus certus</i>                |
|    |                      |                       |                   | 1                         |                  | 1                       |                       | 1                  |                        | 1                  |                    |       | <i>Myzus ornatus</i>               |
|    |                      |                       |                   |                           | 1                |                         | 1                     |                    | 1                      |                    |                    |       | <i>Myzus persicae</i> grp.         |
|    |                      |                       |                   |                           |                  | 1                       |                       |                    |                        |                    |                    |       | <i>Nasonovia ribisnigri</i>        |
|    |                      |                       |                   |                           |                  |                         | 6                     |                    |                        | 1                  |                    |       | <i>Pemphigus</i> spp.              |
|    |                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Phorodon humuli</i>             |
|    | 22                   | 4                     | 11                |                           |                  | 6                       | 12                    |                    | 5                      |                    |                    |       | <i>Phyllaphis fagi</i>             |
| 1  |                      | 11                    | 7                 | 2                         | 23               | 21                      | 1                     | 3                  | 12                     | 2                  | 2                  |       | <i>Rhopalosiphum insertum</i>      |
|    |                      | 1                     |                   |                           |                  |                         |                       |                    | 3                      | 2                  |                    |       | <i>Rhopalosiphum maidis</i>        |
| 8  | 1                    |                       | 1                 |                           |                  | 1                       | 1                     |                    |                        | 1                  | 8                  |       | <i>Rhopalosiphum padi</i>          |
|    |                      | 2                     |                   |                           | 6                | 2                       | 3                     | 3                  | 4                      | 6                  | 6                  |       | <i>Sitobion avenae</i>             |
|    |                      |                       |                   |                           |                  | 2                       | 1                     |                    |                        | 2                  | 1                  |       | <i>Sitobion fragariae</i>          |
|    |                      |                       | April<br>28       |                           | April<br>28      |                         |                       |                    |                        |                    |                    |       | First aphid caught                 |

## ROTHAMSTED REPORT FOR 1987, PART 2

TABLE

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

| Sites                              |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
|------------------------------------|----------------|-----------------|--------------------|-------------------|-----------------------|--------------------|------------------|-------------------------|------------------|-----------------|-------------------|
| Species                            | Elgin<br>(916) | Dundee<br>(907) | Edinburgh<br>(912) | Pathhead<br>(931) | Auchincruive<br>(923) | Newcastle<br>(906) | Belfast<br>(927) | High Mowthorpe<br>(905) | Preston<br>(922) | Kirton<br>(934) | Shardlow<br>(919) |
| <i>Acyrtosiphon pisum</i>          |                |                 |                    |                   |                       |                    | 2                |                         | 1                |                 | 3                 |
| <i>Amphorophora rubi</i>           |                |                 |                    |                   |                       |                    |                  |                         |                  |                 | 1                 |
| <i>Aphis fabae</i> grp.            |                | 1               | 18                 | 1                 | 1                     |                    |                  |                         | 2                |                 | 2                 |
| <i>Aphis</i> spp.                  |                |                 | 3                  | 1                 |                       |                    | 10               |                         | 3                | 3               | 12                |
| <i>Aulacorthum solani</i>          |                |                 |                    | 1                 |                       |                    | 6                |                         | 3                | 2               | 2                 |
| <i>Brachycaudus helichrysi</i>     | 3              |                 | 33                 | 13                | 4                     | 6                  | 115              | 11                      | 25               | 39              | 203               |
| <i>Brevicoryne brassicae</i>       |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Cavariella aegopodii</i>        |                |                 | 10                 | 3                 | 1                     |                    | 18               | 1                       | 7                | 15              | 101               |
| <i>Chaetosiphon fragaefolii</i>    |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Cinara</i> spp.                 |                | 1               | 3                  | 3                 |                       |                    |                  |                         | 1                | 1               | 5                 |
| <i>Drepanosiphum platanoidis</i>   | 528            | 105             | 1106               | 906               | 730                   | 507                | 123              | 706                     | 2084             | 127             | 663               |
| <i>Dysaphis plantaginea</i>        |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Elatobium abietinum</i>         | 92             | 10              | 101                | 489               | 166                   | 213                | 35               | 32                      | 90               | 4               | 17                |
| <i>Eriosoma ulmi</i>               |                |                 |                    |                   |                       |                    | 7                |                         | 29               | 1               | 14                |
| <i>Hyalopectus pruni</i>           |                |                 |                    |                   | 1                     |                    |                  |                         |                  | 1               | 2                 |
| <i>Hyperomyzus lactucae</i>        |                |                 | 9                  | 1                 | 3                     |                    | 6                | 1                       | 4                | 1               | 15                |
| <i>Macrosiphum euphorbiae</i>      |                |                 | 10                 | 1                 | 1                     | 3                  | 18               |                         | 6                | 5               | 10                |
| <i>Megoura viciae</i>              |                |                 |                    |                   |                       |                    |                  |                         |                  |                 | 1                 |
| <i>Metopolophium dirhodum</i>      |                |                 | 3                  |                   | 1                     |                    | 10               |                         | 11               |                 | 5                 |
| <i>Metopolophium festucae</i> s.l. |                |                 | 24                 | 8                 | 9                     | 6                  | 34               | 4                       | 52               | 18              | 144               |
| <i>Myzus ascalonicus</i>           |                | 1               | 14                 | 17                | 5                     | 19                 | 63               | 15                      | 30               | 22              | 56                |
| <i>Myzus certus</i>                |                |                 | 2                  | 4                 | 1                     |                    |                  |                         |                  | 1               | 1                 |
| <i>Myzus ornatus</i>               |                |                 | 1                  |                   |                       |                    | 3                |                         |                  |                 | 1                 |
| <i>Myzus persicae</i> grp.         |                |                 |                    |                   |                       |                    |                  |                         |                  |                 | 5                 |
| <i>Nasonovia ribisnigri</i>        |                |                 | 2                  |                   |                       |                    | 3                |                         | 1                | 2               | 1                 |
| <i>Pemphigus</i> spp.              | 1              |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Phorodon humuli</i>             |                |                 |                    |                   |                       |                    |                  | 1                       |                  | 6               | 26                |
| <i>Phyllaphis fagi</i>             | 826            | 216             | 714                | 835               | 370                   | 145                | 154              | 335                     | 121              | 9               | 90                |
| <i>Rhopalosiphum insertum</i>      |                | 2               | 123                | 119               | 16                    | 25                 | 176              | 73                      | 69               | 31              | 96                |
| <i>Rhopalosiphum maidis</i>        |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Rhopalosiphum padi</i>          | 1              | 2               | 179                | 56                | 53                    |                    | 10               | 1                       | 3                |                 |                   |
| <i>Sitobion avenae</i>             |                |                 | 1                  | 2                 |                       |                    | 13               | 1                       | 4                | 8               | 11                |
| <i>Sitobion fragariae</i>          |                |                 | 1                  | 2                 |                       |                    | 14               | 2                       | 2                |                 | 3                 |

## ROTHAMSTED INSECT SURVEY

1(c)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1987.  
21 May to 17 June 1987

| Sites                |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | Species                            |
|----------------------|-----------------------|-------------------|---------------------------|------------------|-------------------------|-----------------------|--------------------|------------------------|--------------------|--------------------|------------------------------------|
| Aberystwyth<br>(911) | Broom's Barn<br>(904) | Hereford<br>(917) | Rothamsted Tower<br>(901) | Writtle<br>(924) | Long Ashton II<br>(936) | Silwood Park<br>(908) | Wye, Kent<br>(903) | Littlehampton<br>(933) | Starcross<br>(913) | Rosewarne<br>(910) |                                    |
| 1                    |                       |                   | 4                         | 19               | 1                       | 5                     | 6                  | 3                      | 4                  | 3                  | <i>Acyrtosiphon pisum</i>          |
|                      |                       |                   | 1                         | 1                | 2                       |                       |                    | 1                      | 1                  |                    | <i>Amphorophora rubi</i>           |
|                      | 1                     |                   | 6                         | 2                | 1                       | 5                     |                    | 1                      | 6                  |                    | <i>Aphis fabae</i> grp.            |
| 2                    | 4                     | 3                 | 8                         | 14               | 15                      | 23                    | 2                  | 11                     | 14                 |                    | <i>Aphis</i> spp.                  |
| 1                    | 1                     | 7                 |                           | 3                | 3                       | 1                     | 2                  | 7                      | 8                  | 9                  | <i>Aulacorthum solani</i>          |
| 10                   | 47                    | 195               | 223                       | 461              | 128                     | 186                   | 53                 | 140                    | 81                 |                    | <i>Brachycaudus helichrysi</i>     |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Brevicoryne brassicae</i>       |
|                      | 59                    | 47                | 92                        | 117              | 25                      | 323                   | 23                 | 26                     | 46                 | 3                  | <i>Cavariella aegopodii</i>        |
|                      |                       |                   | 1                         |                  |                         |                       | 2                  |                        |                    |                    | <i>Chaetosiphon fragaefolii</i>    |
|                      | 2                     |                   | 5                         | 2                | 2                       | 11                    |                    | 3                      | 1                  |                    | <i>Cinara</i> spp.                 |
| 186                  | 253                   | 206               | 262                       | 152              | 216                     | 209                   | 51                 | 111                    | 63                 | 13                 | <i>Drepanosiphum platanoidis</i>   |
|                      | 1                     |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Dysaphis plantaginea</i>        |
| 262                  | 33                    | 93                | 89                        | 68               | 30                      | 108                   | 39                 | 11                     | 62                 | 5                  | <i>Elatobium abietinum</i>         |
|                      | 3                     | 83                | 13                        | 10               | 33                      | 15                    | 8                  | 7                      | 5                  | 1                  | <i>Eriosoma ulmi</i>               |
|                      |                       |                   | 4                         | 4                | 1                       | 4                     | 14                 | 1                      | 4                  |                    | <i>Hyalopterus pruni</i>           |
| 2                    |                       |                   | 9                         | 10               | 4                       | 7                     | 3                  | 4                      | 3                  |                    | <i>Hyperomyzus lactucae</i>        |
| 1                    |                       | 9                 | 7                         | 11               | 12                      | 11                    | 8                  | 12                     | 7                  | 4                  | <i>Macrosiphum euphorbiae</i>      |
|                      |                       |                   |                           |                  | 2                       | 3                     |                    |                        |                    |                    | <i>Megoura viciae</i>              |
| 2                    | 2                     | 7                 | 3                         | 5                | 39                      | 7                     | 3                  | 4                      | 91                 | 6                  | <i>Metopolophium dirhodum</i>      |
| 9                    | 30                    | 231               | 37                        | 54               | 38                      | 112                   | 72                 | 35                     | 31                 | 7                  | <i>Metopolophium festucae</i> s.l. |
| 5                    | 15                    | 28                | 70                        | 60               | 16                      | 38                    | 17                 | 16                     | 15                 | 8                  | <i>Myzus ascalonicus</i>           |
|                      |                       |                   | 1                         | 4                | 1                       | 4                     |                    | 1                      | 1                  | 1                  | <i>Myzus certus</i>                |
| 1                    | 1                     |                   |                           | 2                | 5                       | 2                     | 2                  | 3                      |                    | 1                  | <i>Myzus ornatus</i>               |
|                      |                       |                   | 5                         | 9                | 4                       | 5                     | 3                  | 7                      | 4                  |                    | <i>Myzus persicae</i> grp.         |
|                      |                       |                   | 3                         | 1                | 1                       | 1                     |                    |                        |                    |                    | <i>Nasonovia ribisnigri</i>        |
|                      |                       |                   |                           |                  |                         |                       |                    |                        | 2                  |                    | <i>Pemphigus</i> spp.              |
|                      | 27                    | 33                | 57                        | 131              | 16                      | 197                   | 63                 | 7                      | 17                 |                    | <i>Phorodon humuli</i>             |
| 23                   | 103                   | 10                | 53                        | 12               | 21                      | 120                   | 7                  | 4                      | 17                 |                    | <i>Phyllaphis fagi</i>             |
| 17                   | 10                    | 40                | 52                        | 32               | 24                      | 15                    | 12                 | 27                     | 64                 | 12                 | <i>Rhopalosiphum insertum</i>      |
|                      |                       |                   |                           |                  |                         |                       | 1                  | 1                      |                    |                    | <i>Rhopalosiphum maidis</i>        |
| 2                    | 10                    | 2                 | 3                         | 8                |                         | 6                     | 4                  | 2                      | 1                  | 35                 | <i>Rhopalosiphum padi</i>          |
| 3                    | 8                     | 26                | 27                        | 59               | 20                      | 43                    | 53                 | 21                     | 21                 | 4                  | <i>Sitobion avenae</i>             |
| 3                    |                       | 6                 | 5                         | 9                | 15                      | 23                    | 5                  | 14                     | 39                 | 3                  | <i>Sitobion fragariae</i>          |

## ROTHAMSTED REPORT FOR 1987, PART 2

TABLE

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

| Sites                              |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
|------------------------------------|----------------|-----------------|--------------------|-------------------|-----------------------|--------------------|------------------|-------------------------|------------------|-----------------|-------------------|
| Species                            | Elgin<br>(916) | Dundee<br>(907) | Edinburgh<br>(912) | Pathhead<br>(931) | Auchincruive<br>(923) | Newcastle<br>(906) | Belfast<br>(927) | High Mowthorpe<br>(905) | Preston<br>(922) | Kirton<br>(934) | Shardlow<br>(919) |
| <i>Acyrtosiphon pisum</i>          | 4              | 9               | 30                 | 20                | 1                     | 7                  | 1                | 55                      | 21               | 330             | 329               |
| <i>Amphorophora rubi</i>           | 1              | 1               |                    |                   |                       |                    | 1                |                         |                  |                 | 3                 |
| <i>Aphis fabae</i> grp.            |                | 2               | 14                 | 1                 | 3                     |                    | 1                | 2                       | 32               | 6               | 27                |
| <i>Aphis</i> spp.                  | 1              | 3               | 53                 | 7                 | 2                     | 6                  | 42               | 8                       | 33               | 25              | 76                |
| <i>Aulacorthum solani</i>          |                |                 | 1                  | 1                 |                       |                    |                  | 2                       | 2                | 4               | 3                 |
| <i>Brachycaudus helichrysi</i>     | 4              | 1               | 18                 | 16                | 11                    | 20                 | 66               | 49                      | 19               | 160             | 160               |
| <i>Brevicoryne brassicae</i>       |                |                 |                    |                   |                       |                    |                  |                         |                  | 3               | 1                 |
| <i>Cavariella aegopodii</i>        | 4              |                 | 32                 | 8                 | 2                     | 8                  | 62               | 12                      | 13               | 65              | 110               |
| <i>Chaetosiphon fragaefolii</i>    |                |                 |                    |                   |                       | 1                  |                  |                         |                  |                 |                   |
| <i>Cinara</i> spp.                 | 2              | 18              | 26                 | 42                | 24                    | 27                 | 26               | 7                       | 8                | 3               | 17                |
| <i>Drepanosiphum platanoidis</i>   | 70             | 40              | 154                | 57                | 76                    | 124                | 37               | 38                      | 574              | 12              | 53                |
| <i>Dysaphis plantaginea</i>        |                |                 |                    |                   |                       |                    |                  |                         |                  | 1               |                   |
| <i>Elatobium abietinum</i>         | 38             | 8               | 16                 | 79                | 11                    | 43                 | 22               | 10                      | 7                |                 |                   |
| <i>Eriosoma ulmi</i>               | 21             | 47              | 51                 | 43                | 18                    | 55                 | 28               | 10                      | 63               | 10              | 44                |
| <i>Hyalopterus pruni</i>           |                | 1               | 9                  | 15                | 6                     | 7                  | 19               | 56                      | 130              | 129             | 231               |
| <i>Hyperomyzus lactucae</i>        | 1              | 4               | 10                 |                   | 2                     |                    | 2                |                         | 4                | 6               | 9                 |
| <i>Macrosiphum euphorbiae</i>      | 2              | 1               | 33                 | 22                | 8                     | 11                 | 11               | 4                       | 15               | 162             | 39                |
| <i>Megoura viciae</i>              |                |                 | 13                 | 3                 | 4                     | 1                  | 12               |                         | 5                | 2               | 17                |
| <i>Metopolophium dirhodum</i>      | 1              | 9               | 118                | 60                | 37                    | 42                 | 4                | 200                     | 142              | 486             | 1549              |
| <i>Metopolophium festucae</i> s.l. | 4              | 3               | 78                 | 44                | 27                    | 55                 | 3                | 138                     | 30               | 103             | 82                |
| <i>Myzus ascalonicus</i>           | 1              |                 | 5                  | 14                | 1                     | 5                  | 2                | 8                       |                  | 1               | 2                 |
| <i>Myzus certus</i>                |                |                 | 3                  | 3                 |                       |                    | 2                |                         |                  |                 | 1                 |
| <i>Myzus ornatus</i>               |                |                 | 1                  |                   |                       | 1                  | 2                |                         |                  |                 | 1                 |
| <i>Myzus persicae</i> grp.         |                | 1               |                    |                   | 3                     |                    | 6                | 3                       | 5                | 7               | 131               |
| <i>Nasonovia ribisnigri</i>        |                |                 |                    |                   |                       | 1                  |                  |                         |                  | 2               |                   |
| <i>Pemphigus</i> spp.              |                |                 | 2                  | 1                 | 3                     | 1                  | 1                | 4                       | 25               | 37              | 69                |
| <i>Phorodon humuli</i>             |                |                 | 2                  |                   |                       | 2                  | 6                | 6                       |                  | 37              | 92                |
| <i>Phyllaphis fagi</i>             | 347            | 516             | 1117               | 1308              | 128                   | 304                | 187              | 110                     | 26               | 16              | 54                |
| <i>Rhopalosiphum insertum</i>      | 2              | 4               | 47                 | 15                | 33                    | 1                  | 29               | 9                       | 12               | 44              | 28                |
| <i>Rhopalosiphum maidis</i>        |                |                 | 2                  |                   |                       | 12                 | 17               | 10                      | 9                | 27              | 2                 |
| <i>Rhopalosiphum padi</i>          | 4              | 13              | 11                 | 12                | 21                    | 47                 | 5                | 79                      | 28               | 393             | 94                |
| <i>Sitobion avenae</i>             | 3              |                 | 51                 | 25                | 422                   | 40                 | 29               | 183                     | 380              | 1255            | 855               |
| <i>Sitobion fragariae</i>          |                | 1               | 6                  | 2                 | 1                     | 1                  | 5                | 3                       | 9                | 18              | 19                |

## ROTHAMSTED INSECT SURVEY

1(d)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1987  
18 June to 15 July 1987

|  | Aberystwyth<br>(911) | Broom's Barn<br>(904) | Hereford<br>(917) | Rothamsted Tower<br>(901) | Writtle<br>(924) | Long Ashton II<br>(936) | Silwood Park<br>(908) | Wye, Kent<br>(903) | Littlehampton<br>(933) | Starcross<br>(913) | Rosewarne<br>(910) | Sites                              |
|--|----------------------|-----------------------|-------------------|---------------------------|------------------|-------------------------|-----------------------|--------------------|------------------------|--------------------|--------------------|------------------------------------|
|  |                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | Species                            |
|  | 349                  | 102                   | 351               | 596                       | 79               | 76                      | 399                   | 276                | 93                     | 17                 |                    | <i>Acyrtosiphon pisum</i>          |
|  | 7                    | 8                     | 7                 | 3                         | 3                | 8                       |                       |                    |                        |                    |                    | <i>Amphorophora rubi</i>           |
|  | 35                   | 12                    | 37                | 19                        | 10               | 17                      | 31                    | 35                 | 84                     | 29                 |                    | <i>Aphis fabae</i> grp.            |
|  | 42                   | 15                    | 81                | 76                        | 75               | 82                      | 72                    | 72                 | 83                     | 20                 |                    | <i>Aphis</i> spp.                  |
|  | 13                   | 6                     | 1                 | 4                         | 1                | 3                       | 3                     | 2                  | 6                      | 13                 |                    | <i>Aulacorthum solani</i>          |
|  | 97                   | 80                    | 93                | 106                       | 41               | 20                      | 54                    | 32                 | 44                     | 6                  |                    | <i>Brachycaudus helichrysi</i>     |
|  | 1                    | 12                    | 1                 | 20                        |                  | 11                      | 2                     | 3                  | 15                     |                    |                    | <i>Brevicoryne brassicae</i>       |
|  | 83                   | 24                    | 77                | 76                        | 11               | 31                      | 46                    | 18                 | 17                     | 1                  |                    | <i>Cavariella aegopodii</i>        |
|  |                      | 1                     |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Chaetosiphon fragaefolii</i>    |
|  | 5                    | 14                    | 6                 | 16                        | 8                | 9                       | 11                    | 7                  | 3                      | 1                  |                    | <i>Cinara</i> spp.                 |
|  | 62                   | 32                    | 26                | 36                        | 45               | 22                      | 5                     | 30                 | 17                     | 28                 |                    | <i>Drepanosiphum platanoidis</i>   |
|  | 3                    |                       | 5                 | 1                         | 2                | 1                       | 1                     | 2                  | 3                      |                    |                    | <i>Dysaphis plantaginea</i>        |
|  |                      | 33                    | 2                 |                           | 1                | 1                       |                       |                    | 2                      |                    |                    | <i>Elatobium abietinum</i>         |
|  | 14                   | 58                    | 20                | 17                        | 13               | 5                       | 7                     | 2                  | 3                      | 2                  |                    | <i>Eriosoma ulmi</i>               |
|  | 272                  | 96                    | 608               | 1374                      | 173              | 360                     | 2222                  | 134                | 242                    | 7                  |                    | <i>Hyalopterus pruni</i>           |
|  | 3                    | 4                     | 7                 | 11                        | 17               | 2                       | 12                    | 11                 | 10                     |                    |                    | <i>Hyperomyzus lactucae</i>        |
|  | 14                   | 17                    | 48                | 68                        | 18               | 10                      | 92                    | 40                 | 37                     | 25                 |                    | <i>Macrosiphum euphorbiae</i>      |
|  |                      | 5                     | 7                 | 8                         | 18               | 23                      | 7                     | 3                  | 3                      | 3                  |                    | <i>Megoura viciae</i>              |
|  | 621                  | 201                   | 424               | 334                       | 246              | 115                     | 199                   | 264                | 220                    | 16                 |                    | <i>Metopolophium dirhodum</i>      |
|  | 174                  | 89                    | 102               | 67                        | 6                | 34                      | 135                   | 13                 | 5                      | 1                  |                    | <i>Metopolophium festucae</i> s.l. |
|  | 4                    | 2                     | 3                 | 1                         |                  |                         | 1                     |                    | 1                      |                    |                    | <i>Myzus ascalonicus</i>           |
|  |                      |                       | 4                 | 1                         |                  | 2                       | 1                     | 1                  | 4                      | 1                  |                    | <i>Myzus certus</i>                |
|  |                      |                       |                   | 1                         | 1                | 1                       | 2                     |                    | 3                      |                    |                    | <i>Myzus ornatus</i>               |
|  | 50                   | 6                     | 42                | 170                       | 18               | 10                      | 140                   | 34                 | 2                      | 6                  |                    | <i>Myzus persicae</i> grp.         |
|  |                      |                       |                   | 6                         | 1                | 2                       | 3                     | 1                  | 3                      | 1                  |                    | <i>Nasonovia ribisnigri</i>        |
|  | 13                   | 28                    | 23                | 34                        | 28               | 24                      | 23                    | 9                  | 17                     |                    |                    | <i>Pemphigus</i> spp.              |
|  | 258                  | 61                    | 104               | 464                       | 66               | 60                      | 267                   | 18                 | 28                     |                    |                    | <i>Phorodon humuli</i>             |
|  | 53                   | 14                    | 66                | 14                        | 15               | 63                      | 6                     | 1                  | 8                      |                    |                    | <i>Phyllaphis fagi</i>             |
|  | 19                   | 21                    | 104               | 69                        | 16               | 66                      | 42                    | 11                 | 48                     | 28                 |                    | <i>Rhopalosiphum insertum</i>      |
|  | 16                   | 5                     | 4                 | 9                         | 8                | 2                       | 27                    | 16                 | 18                     | 12                 |                    | <i>Rhopalosiphum maidis</i>        |
|  | 1269                 | 137                   | 271               | 491                       | 128              | 237                     | 303                   | 156                | 1081                   | 42                 |                    | <i>Rhopalosiphum padi</i>          |
|  | 828                  | 1088                  | 1005              | 1558                      | 754              | 973                     | 2585                  | 1111               | 506                    | 147                |                    | <i>Sitobion avenae</i>             |
|  | 17                   | 34                    | 23                | 44                        | 16               | 20                      | 64                    | 35                 | 21                     | 2                  |                    | <i>Sitobion fragariae</i>          |

## ROTHAMSTED REPORT FOR 1987, PART 2

TABLE

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

| Sites                              |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
|------------------------------------|----------------|-----------------|--------------------|-------------------|-----------------------|--------------------|------------------|-------------------------|------------------|-----------------|-------------------|
| Species                            | Elgin<br>(916) | Dundee<br>(907) | Edinburgh<br>(912) | Pathhead<br>(931) | Auchincruive<br>(923) | Newcastle<br>(906) | Belfast<br>(927) | High Mowthorpe<br>(905) | Preston<br>(922) | Kirton<br>(934) | Shardlow<br>(919) |
| <i>Acyrtosiphon pisum</i>          | 26             | 137             | 66                 | 91                | 9                     | 54                 |                  | 29                      | 14               | 342             | 14                |
| <i>Amphorophora rubi</i>           |                |                 | 1                  |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Aphis fabae</i> grp.            | 2              | 3               | 24                 | 15                | 25                    | 2                  | 1                | 3                       | 16               | 57              | 41                |
| <i>Aphis</i> spp.                  |                | 1               | 42                 | 1                 | 12                    | 18                 | 39               | 6                       | 12               | 75              | 66                |
| <i>Aulacorthum solani</i>          | 1              | 6               | 2                  | 2                 | 1                     | 1                  | 1                | 1                       |                  | 3               |                   |
| <i>Brachycaudus helichrysi</i>     | 2              | 1               | 1                  | 3                 | 9                     | 5                  |                  | 10                      | 2                | 18              | 9                 |
| <i>Brevicoryne brassicae</i>       |                |                 | 1                  |                   |                       |                    |                  |                         |                  |                 | 10                |
| <i>Cavariella aegopodii</i>        | 3              | 2               | 1                  | 1                 |                       | 2                  |                  |                         | 2                | 5               | 8                 |
| <i>Chaetosiphon fragaefolii</i>    |                |                 |                    |                   |                       |                    |                  |                         | 2                |                 |                   |
| <i>Cinara</i> spp.                 | 2              | 6               | 8                  | 11                | 40                    | 10                 | 2                |                         | 18               | 2               | 5                 |
| <i>Drepanosiphum platanoidis</i>   | 6              | 11              | 8                  | 9                 | 6                     | 10                 | 9                | 5                       | 124              | 2               | 13                |
| <i>Dysaphis plantaginea</i>        |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Elatobium abietinum</i>         |                | 1               |                    |                   |                       | 1                  |                  |                         |                  |                 |                   |
| <i>Eriosoma ulmi</i>               |                | 3               | 4                  | 2                 | 3                     | 1                  |                  |                         | 2                |                 | 2                 |
| <i>Hyalopterus pruni</i>           | 1              | 3               | 5                  | 2                 | 8                     | 15                 | 5                | 31                      | 56               | 153             | 160               |
| <i>Hyperomyzus lactucae</i>        |                | 2               | 2                  | 1                 | 1                     |                    |                  |                         |                  | 5               |                   |
| <i>Macrosiphum euphorbiae</i>      | 24             | 53              | 51                 | 37                | 11                    | 10                 | 2                | 11                      | 2                | 100             | 10                |
| <i>Megoura viciae</i>              |                |                 | 1                  |                   | 2                     | 3                  |                  |                         |                  |                 |                   |
| <i>Metopolophium dirhodum</i>      | 171            | 431             | 185                | 354               | 190                   | 135                | 6                | 180                     | 18               | 562             | 205               |
| <i>Metopolophium festucae</i> s.l. | 12             | 4               | 9                  | 58                | 6                     | 33                 |                  | 51                      |                  | 36              | 2                 |
| <i>Myzus ascalonicus</i>           |                |                 | 1                  | 2                 |                       |                    |                  |                         |                  |                 |                   |
| <i>Myzus certus</i>                |                |                 |                    |                   |                       |                    |                  |                         |                  | 1               |                   |
| <i>Myzus ornatus</i>               |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Myzus persicae</i> grp.         |                | 1               |                    | 1                 |                       | 3                  |                  | 2                       | 2                | 16              | 26                |
| <i>Nasonovia ribisnigri</i>        | 1              |                 |                    | 1                 |                       |                    |                  |                         |                  | 1               |                   |
| <i>Pemphigus</i> spp.              |                | 6               | 9                  | 2                 | 4                     | 6                  | 3                | 2                       | 6                | 42              | 14                |
| <i>Phorodon humuli</i>             |                |                 |                    |                   |                       |                    |                  | 1                       |                  | 17              | 4                 |
| <i>Phyllaphis fagi</i>             | 5              | 6               | 5                  | 20                | 4                     |                    |                  | 1                       |                  |                 |                   |
| <i>Rhopalosiphum insertum</i>      | 5              | 53              | 480                | 357               | 255                   | 95                 | 182              | 62                      | 88               | 119             | 128               |
| <i>Rhopalosiphum maidis</i>        | 1              |                 | 1                  | 1                 | 1                     | 1                  | 1                | 4                       | 2                | 12              |                   |
| <i>Rhopalosiphum padi</i>          | 29             | 69              | 155                | 112               | 21                    | 42                 | 9                | 85                      | 18               | 1257            | 47                |
| <i>Sitobion avenae</i>             | 77             | 225             | 93                 | 127               | 214                   | 148                | 29               | 386                     | 184              | 3054            | 463               |
| <i>Sitobion fragariae</i>          |                | 4               | 8                  | 10                |                       | 9                  | 2                | 5                       | 8                | 7               | 13                |

## ROTHAMSTED INSECT SURVEY

1(e)

of aphids of economic, or other, interest reported in the Weekly Bulletin 1987  
16 July to 12 August 1987

|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | Sites                              |
|----------------------|-----------------------|-------------------|---------------------------|------------------|-------------------------|-----------------------|--------------------|------------------------|--------------------|--------------------|------------------------------------|
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | Species                            |
| Aberystwyth<br>(911) | Broom's Barn<br>(904) | Hereford<br>(917) | Rothamsted Tower<br>(901) | Writtle<br>(924) | Long Ashton II<br>(936) | Silwood Park<br>(908) | Wye, Kent<br>(903) | Littlehampton<br>(933) | Starcross<br>(913) | Rosewarne<br>(910) |                                    |
| 4                    | 137                   |                   | 24                        | 46               | 8                       | 6                     | 33                 | 69                     | 13                 | 6                  | <i>Acyrtosiphon pisum</i>          |
| 3                    | 176                   | 27                | 71                        | 74               | 22                      | 22                    | 13                 | 51                     | 64                 | 12                 | <i>Amphorophora rubi</i>           |
| 7                    | 60                    | 31                | 99                        | 68               | 46                      | 62                    | 86                 | 144                    | 71                 | 9                  | <i>Aphis fabae</i> grp.            |
| 1                    | 1                     |                   |                           | 6                | 2                       |                       |                    |                        |                    |                    | <i>Aphis</i> spp.                  |
|                      | 15                    | 6                 | 4                         | 10               | 4                       | 4                     |                    | 4                      | 15                 |                    | <i>Aulacorthum solani</i>          |
|                      | 1                     | 17                |                           | 10               | 4                       | 4                     |                    | 1                      | 24                 |                    | <i>Brachycaudus helichrysi</i>     |
|                      | 7                     | 2                 | 2                         | 4                | 2                       | 6                     | 5                  | 2                      | 4                  |                    | <i>Brevicoryne brassicae</i>       |
|                      |                       |                   |                           |                  |                         | 2                     |                    |                        |                    |                    | <i>Cavariella aegopodii</i>        |
| 2                    | 2                     | 5                 |                           | 2                | 2                       | 2                     | 1                  | 2                      |                    | 1                  | <i>Chaetosiphon fragaefolii</i>    |
| 7                    | 4                     | 6                 | 2                         | 2                | 31                      | 8                     |                    | 7                      | 4                  | 21                 | <i>Cinara</i> spp.                 |
| 1                    | 1                     |                   |                           | 2                |                         |                       | 2                  | 2                      |                    |                    | <i>Drepanosiphum platanoidis</i>   |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Dysaphis plantaginea</i>        |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Elatobium abietinum</i>         |
|                      |                       | 2                 |                           |                  |                         |                       |                    |                        |                    |                    | <i>Eriosoma ulmi</i>               |
| 3                    | 620                   | 30                | 584                       | 992              | 96                      | 222                   | 824                | 182                    | 73                 | 8                  | <i>Hyalopterus pruni</i>           |
|                      | 5                     |                   | 2                         | 2                |                         | 2                     | 8                  | 4                      | 1                  |                    | <i>Hyperomyzus lactucae</i>        |
| 3                    | 17                    | 9                 | 5                         | 8                | 2                       | 8                     | 5                  | 16                     | 6                  | 20                 | <i>Macrosiphum euphorbiae</i>      |
|                      |                       | 2                 | 2                         | 2                | 4                       | 8                     |                    | 1                      |                    | 2                  | <i>Megoura viciae</i>              |
| 1                    | 680                   | 31                | 44                        | 92               | 13                      | 4                     | 33                 | 49                     | 52                 | 14                 | <i>Metopolophium dirhodum</i>      |
| 2                    | 49                    |                   | 6                         | 4                | 2                       | 2                     |                    | 2                      | 1                  | 3                  | <i>Metopolophium festucae</i> s.l. |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Myzus ascalonicus</i>           |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    | 1                  | <i>Myzus certus</i>                |
|                      |                       |                   |                           |                  |                         |                       |                    |                        | 1                  | 1                  | <i>Myzus ornatus</i>               |
| 2                    | 31                    |                   | 14                        | 56               | 4                       | 6                     | 15                 | 17                     | 4                  | 5                  | <i>Myzus persicae</i> grp.         |
| 2                    | 1                     |                   |                           |                  |                         |                       |                    |                        | 1                  |                    | <i>Nasonovia ribisnigri</i>        |
| 6                    | 9                     | 6                 | 2                         | 2                |                         | 2                     | 2                  | 2                      | 3                  |                    | <i>Pemphigus</i> spp.              |
|                      | 260                   | 13                | 23                        | 148              | 4                       | 12                    | 15                 | 2                      | 3                  |                    | <i>Phorodon humuli</i>             |
|                      |                       |                   |                           | 4                |                         | 2                     |                    |                        |                    | 1                  | <i>Phyllaphis fagi</i>             |
| 43                   | 65                    | 134               | 196                       | 194              | 41                      | 180                   | 74                 | 76                     | 207                | 117                | <i>Rhopalosiphum insertum</i>      |
| 2                    | 6                     |                   | 4                         |                  |                         | 4                     | 13                 | 6                      | 1                  | 1                  | <i>Rhopalosiphum maidis</i>        |
| 32                   | 4465                  | 53                | 349                       | 914              | 54                      | 168                   | 1089               | 296                    | 199                | 297                | <i>Rhopalosiphum padi</i>          |
| 72                   | 2254                  | 414               | 692                       | 1158             | 242                     | 338                   | 1088               | 546                    | 166                | 62                 | <i>Sitobion avenae</i>             |
| 1                    | 14                    | 44                | 12                        | 6                | 7                       | 16                    | 20                 | 36                     | 9                  | 10                 | <i>Sitobion fragariae</i>          |

## ROTHAMSTED REPORT FOR 1987, PART 2

TABLE

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

| Sites                              |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
|------------------------------------|----------------|-----------------|--------------------|-------------------|-----------------------|--------------------|------------------|-------------------------|------------------|-----------------|-------------------|
| Species                            | Elgin<br>(916) | Dundee<br>(907) | Edinburgh<br>(912) | Pathhead<br>(931) | Auchincruive<br>(923) | Newcastle<br>(906) | Belfast<br>(927) | High Mowthorpe<br>(905) | Preston<br>(922) | Kirton<br>(934) | Shardlow<br>(919) |
| <i>Acyrtosiphon pisum</i>          | 18             | 63              |                    |                   |                       | 5                  | 1                |                         |                  |                 |                   |
| <i>Amphorophora rubi</i>           |                | 2               |                    |                   |                       |                    | 1                |                         |                  |                 |                   |
| <i>Aphis fabae</i> grp.            | 15             | 129             | 12                 | 20                | 14                    | 36                 | 5                | 9                       | 16               | 232             | 10                |
| <i>Aphis</i> spp.                  |                | 1               | 3                  |                   |                       | 17                 | 5                | 11                      | 18               | 180             | 21                |
| <i>Aulacorthum solani</i>          | 4              | 3               |                    |                   |                       |                    |                  |                         | 2                |                 |                   |
| <i>Brachycaudus helichrysi</i>     | 3              | 18              | 10                 | 11                | 4                     | 3                  | 6                | 1                       | 6                | 12              | 22                |
| <i>Brevicoryne brassicae</i>       |                |                 |                    |                   |                       |                    | 1                |                         | 2                | 2               | 1                 |
| <i>Cavariella aegopodii</i>        | 15             |                 |                    |                   |                       | 1                  |                  |                         | 2                |                 |                   |
| <i>Chaetosiphon fragaefolii</i>    |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Cinara</i> spp.                 |                | 1               | 1                  |                   |                       |                    |                  |                         | 2                |                 | 1                 |
| <i>Drepanosiphum platanoidis</i>   | 7              | 9               | 5                  | 1                 | 14                    | 6                  | 1                | 2                       | 238              | 2               | 8                 |
| <i>Dysaphis plantaginea</i>        |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Elatobium abietinum</i>         |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Eriosoma ulmi</i>               |                | 2               | 10                 | 1                 | 1                     |                    | 1                |                         |                  |                 |                   |
| <i>Hyalopterus pruni</i>           |                | 44              | 8                  | 2                 | 5                     | 9                  | 15               | 12                      | 54               | 62              | 71                |
| <i>Hyperomyzus lactucae</i>        |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Macrosiphum euphorbiae</i>      | 119            | 93              | 3                  | 1                 | 2                     | 1                  | 5                |                         | 2                |                 |                   |
| <i>Megoura viciae</i>              |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Metopolophium dirhodum</i>      | 101            | 103             | 1                  | 10                |                       | 17                 | 1                |                         | 6                | 10              | 1                 |
| <i>Metopolophium festucae</i> s.l. | 19             | 19              |                    |                   |                       | 18                 | 1                | 1                       | 2                |                 |                   |
| <i>Myzus ascalonicus</i>           |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Myzus certus</i>                |                |                 |                    |                   |                       |                    |                  |                         |                  | 1               |                   |
| <i>Myzus ornatus</i>               |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Myzus persicae</i> grp.         | 3              | 2               |                    |                   | 1                     | 5                  | 4                |                         | 4                | 1               | 1                 |
| <i>Nasonovia ribisnigri</i>        |                |                 |                    |                   |                       |                    |                  |                         |                  |                 | 1                 |
| <i>Pemphigus</i> spp.              | 13             | 12              | 18                 | 17                | 32                    | 12                 | 5                | 8                       | 60               | 28              | 66                |
| <i>Phorodon humuli</i>             |                |                 |                    |                   |                       |                    |                  |                         |                  | 2               | 2                 |
| <i>Phyllaphis fagi</i>             |                | 3               | 2                  |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Rhopalosiphum insertum</i>      | 42             | 186             | 832                | 418               | 225                   | 191                | 139              | 73                      | 216              | 182             | 148               |
| <i>Rhopalosiphum maidis</i>        |                |                 |                    |                   |                       | 4                  | 1                |                         |                  | 4               |                   |
| <i>Rhopalosiphum padi</i>          | 593            | 676             | 388                | 458               | 96                    | 397                | 95               | 173                     | 864              | 2218            | 341               |
| <i>Sitobion avenae</i>             | 376            | 711             | 107                | 78                | 19                    | 105                | 32               | 70                      | 64               | 132             | 89                |
| <i>Sitobion fragariae</i>          | 3              | 5               | 1                  | 1                 | 2                     | 7                  | 1                |                         | 2                | 1               | 2                 |

## ROTHAMSTED INSECT SURVEY

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of aphids of economic, or other, interest reported in the Weekly Bulletin 1987  
13 August to 9 September 1987

| Sites                |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | Species                            |
|----------------------|-----------------------|-------------------|---------------------------|------------------|-------------------------|-----------------------|--------------------|------------------------|--------------------|--------------------|------------------------------------|
| Aberystwyth<br>(911) | Broom's Barn<br>(904) | Hereford<br>(917) | Rothamsted Tower<br>(901) | Writtle<br>(924) | Long Ashton II<br>(936) | Silwood Park<br>(908) | Wye, Kent<br>(903) | Littlehampton<br>(933) | Starcross<br>(913) | Rosewarne<br>(910) |                                    |
| 6                    |                       | 8                 | 1                         | 2                | 13                      | 4                     | 8                  | 6                      | 11                 | 9                  | <i>Acyrtosiphon pisum</i>          |
| 38                   | 39                    | 90                | 1                         | 4                | 17                      | 4                     | 3                  | 6                      | 45                 | 12                 | <i>Amphorophora rubi</i>           |
| 28                   | 8                     | 51                | 11                        | 30               | 41                      | 6                     | 27                 | 22                     | 250                | 31                 | <i>Aphis fabae</i> grp.            |
| 2                    |                       |                   |                           | 6                | 1                       |                       |                    |                        |                    |                    | <i>Aphis</i> spp.                  |
| 8                    | 15                    | 36                | 176                       | 14               | 10                      | 6                     | 26                 | 19                     | 108                | 4                  | <i>Aulacorthum solani</i>          |
| 1                    | 1                     | 35                | 2                         |                  | 10                      |                       | 2                  | 46                     | 328                |                    | <i>Brachycaudus helichrysi</i>     |
| 2                    | 1                     | 1                 |                           |                  |                         | 2                     | 2                  |                        |                    |                    | <i>Brevicoryne brassicae</i>       |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Cavariella aegopodii</i>        |
| 1                    | 1                     |                   |                           | 2                |                         |                       | 1                  | 2                      | 4                  |                    | <i>Chaetosiphon fragaefolii</i>    |
| 33                   | 2                     | 1                 | 5                         | 14               | 17                      | 2                     | 3                  | 24                     | 52                 | 23                 | <i>Cinara</i> spp.                 |
|                      | 1                     |                   |                           |                  |                         |                       |                    |                        | 1                  |                    | <i>Drepanosiphum platanoidis</i>   |
|                      |                       | 1                 |                           |                  |                         |                       |                    |                        |                    |                    | <i>Dysaphis plantaginea</i>        |
| 1                    |                       |                   |                           |                  | 1                       |                       |                    |                        |                    |                    | <i>Elatobium abietinum</i>         |
| 14                   | 101                   | 31                | 53                        | 126              | 36                      | 14                    | 99                 | 62                     | 100                | 5                  | <i>Eriosoma ulmi</i>               |
| 3                    |                       | 1                 |                           |                  | 3                       |                       |                    | 3                      | 3                  | 2                  | <i>Hyalopterus pruni</i>           |
| 2                    |                       | 3                 |                           |                  |                         |                       |                    | 1                      | 5                  | 16                 | <i>Hyperomyzus lactucae</i>        |
|                      | 4                     | 1                 | 3                         | 10               |                         |                       |                    |                        |                    |                    | <i>Macrosiphum euphorbiae</i>      |
| 5                    |                       | 2                 | 2                         |                  | 5                       |                       | 1                  | 1                      | 31                 | 11                 | <i>Megoura viciae</i>              |
| 2                    |                       | 2                 |                           |                  | 7                       |                       |                    | 2                      | 6                  | 7                  | <i>Metopolophium dirhodum</i>      |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Metopolophium festucae</i> s.l. |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Myzus ascalonicus</i>           |
|                      |                       |                   |                           |                  |                         |                       |                    |                        | 1                  | 3                  | <i>Myzus certus</i>                |
|                      |                       |                   |                           |                  | 1                       | 2                     |                    | 2                      | 1                  |                    | <i>Myzus ornatus</i>               |
| 12                   | 1                     | 5                 | 2                         | 2                | 10                      |                       | 3                  | 8                      | 31                 | 11                 | <i>Myzus persicae</i> grp.         |
| 1                    |                       | 1                 |                           |                  |                         |                       |                    |                        |                    |                    | <i>Nasonovia ribisnigri</i>        |
| 376                  | 18                    | 43                | 13                        | 12               | 24                      | 14                    | 16                 | 15                     | 70                 | 18                 | <i>Pemphigus</i> spp.              |
|                      |                       | 159               | 1                         |                  |                         |                       | 5                  |                        |                    |                    | <i>Phorodon humuli</i>             |
|                      |                       | 1                 |                           |                  |                         |                       |                    |                        |                    |                    | <i>Phyllaphis fagi</i>             |
| 92                   | 120                   | 759               | 231                       | 154              | 283                     | 208                   | 56                 | 101                    | 1247               | 266                | <i>Rhopalosiphum insertum</i>      |
| 4                    |                       | 1                 |                           | 2                | 3                       |                       | 2                  | 3                      | 5                  | 2                  | <i>Rhopalosiphum maidis</i>        |
| 305                  | 825                   | 1569              | 385                       | 452              | 1142                    | 464                   | 1051               | 702                    | 1723               | 680                | <i>Rhopalosiphum padi</i>          |
| 72                   | 46                    | 143               | 40                        | 50               | 88                      | 26                    | 61                 | 47                     | 116                | 130                | <i>Sitobion avenae</i>             |
| 5                    |                       | 7                 | 1                         | 2                | 9                       | 8                     | 2                  | 2                      | 8                  | 12                 | <i>Sitobion fragariae</i>          |

ROTHAMSTED REPORT FOR 1987, PART 2

TABLE

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

| Sites                              | Elgin<br>(916) | Dundee<br>(907) | Edinburgh<br>(912) | Pathhead<br>(931) | Auchincruive<br>(923) | Newcastle<br>(906) | Belfast<br>(927) | High Mowthorpe<br>(905) | Preston<br>(922) | Kirton<br>(934) | Shardlow<br>(919) |
|------------------------------------|----------------|-----------------|--------------------|-------------------|-----------------------|--------------------|------------------|-------------------------|------------------|-----------------|-------------------|
| Species                            |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Acyrtosiphon pisum</i>          |                | 1               |                    |                   |                       |                    |                  |                         |                  |                 | 4                 |
| <i>Amphorophora rubi</i>           |                | 1               |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Aphis fabae</i> grp.            | 1              | 14              |                    | 1                 | 2                     | 19                 | 2                | 8                       | 10               | 208             | 6                 |
| <i>Aphis</i> spp.                  |                | 1               |                    |                   |                       | 8                  | 8                | 12                      | 30               | 260             | 26                |
| <i>Aulacorthum solani</i>          |                |                 | 1                  |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Brachycaudus helichrysi</i>     | 22             | 12              | 42                 | 40                | 14                    | 12                 | 16               | 14                      | 16               | 15              | 38                |
| <i>Brevicoryne brassicae</i>       |                | 1               | 2                  |                   |                       |                    |                  |                         |                  | 6               | 6                 |
| <i>Cavariella aegopodii</i>        | 6              |                 | 1                  | 3                 |                       |                    |                  |                         |                  |                 |                   |
| <i>Chaetosiphon fragaefolii</i>    |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Cinara</i> spp.                 |                |                 | 1                  |                   |                       | 1                  |                  |                         |                  |                 |                   |
| <i>Drepanosiphum platanoidis</i>   | 3              | 7               | 14                 | 2                 | 6                     | 4                  |                  | 3                       | 90               | 11              | 4                 |
| <i>Dysaphis plantaginea</i>        |                |                 |                    |                   |                       |                    |                  | 1                       | 2                |                 |                   |
| <i>Elatobium abietinum</i>         |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Eriosoma ulmi</i>               | 2              | 4               | 23                 | 3                 | 2                     | 1                  |                  | 3                       |                  | 2               |                   |
| <i>Hyalopterus pruni</i>           | 1              | 58              |                    | 1                 |                       |                    | 1                |                         | 4                | 10              | 4                 |
| <i>Hyperomyzus lactucae</i>        |                |                 |                    |                   |                       |                    | 2                |                         | 2                |                 | 6                 |
| <i>Macrosiphum euphorbiae</i>      | 1              |                 | 1                  |                   | 2                     |                    |                  |                         | 2                |                 |                   |
| <i>Megoura viciae</i>              |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Metopolophium dirhodum</i>      | 13             | 2               | 2                  |                   | 2                     | 2                  | 3                | 2                       | 28               |                 | 6                 |
| <i>Metopolophium festucae</i> s.l. |                | 1               |                    |                   | 2                     |                    | 3                | 1                       |                  |                 |                   |
| <i>Myzus ascalonicus</i>           |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Myzus certus</i>                |                |                 |                    |                   |                       |                    |                  |                         |                  |                 | 1                 |
| <i>Myzus ornatus</i>               |                |                 | 1                  |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Myzus persicae</i> grp.         |                |                 |                    |                   | 1                     | 1                  | 8                |                         | 12               |                 |                   |
| <i>Nasonovia ribisnigri</i>        | 1              |                 |                    |                   |                       |                    |                  |                         |                  |                 | 3                 |
| <i>Pemphigus</i> spp.              | 210            | 52              | 336                | 106               | 118                   | 70                 | 24               | 33                      | 90               | 108             | 70                |
| <i>Phorodon humuli</i>             |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Phyllaphis fagi</i>             |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Rhopalosiphum insertum</i>      | 291            | 462             | 2437               | 2675              | 1136                  | 1268               | 1274             | 439                     | 4948             | 277             | 971               |
| <i>Rhopalosiphum maidis</i>        |                |                 |                    |                   |                       |                    |                  | 1                       | 2                | 3               |                   |
| <i>Rhopalosiphum padi</i>          | 3433           | 2070            | 3957               | 2270              | 2058                  | 2135               | 2172             | 1102                    | 16144            | 1362            | 4223              |
| <i>Sitobion avenae</i>             | 3              | 1               | 1                  | 1                 | 2                     | 1                  | 3                | 7                       | 2                | 5               | 6                 |
| <i>Sitobion fragariae</i>          | 1              |                 | 1                  |                   |                       |                    |                  |                         |                  |                 | 1                 |

## ROTHAMSTED INSECT SURVEY

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of aphids of economic, or other, interest reported in the Weekly Bulletin 1987  
10 September to 7 October 1987

| Sites                |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | Species                            |
|----------------------|-----------------------|-------------------|---------------------------|------------------|-------------------------|-----------------------|--------------------|------------------------|--------------------|--------------------|------------------------------------|
| Aberystwyth<br>(911) | Broom's Barn<br>(904) | Hereford<br>(917) | Rothamsted Tower<br>(901) | Writtle<br>(924) | Long Ashton II<br>(936) | Silwood Park<br>(908) | Wye, Kent<br>(903) | Littlehampton<br>(933) | Starcross<br>(913) | Rosewarne<br>(910) |                                    |
| 1                    | 1                     | 6                 | 1                         |                  | 9                       | 2                     | 2                  | 3                      |                    |                    | <i>Acyrtosiphon pisum</i>          |
| 39                   | 60                    | 12                |                           | 12               | 1                       |                       | 8                  | 15                     | 1                  |                    | <i>Amphorophora rubi</i>           |
| 74                   | 4                     | 6                 |                           | 12               | 5                       |                       | 13                 | 15                     | 5                  | 1                  | <i>Aphis fabae</i> grp.            |
|                      |                       | 1                 |                           |                  |                         |                       |                    |                        |                    |                    | <i>Aphis</i> spp.                  |
| 19                   | 43                    | 40                | 48                        | 20               | 4                       | 8                     | 37                 | 35                     | 9                  | 6                  | <i>Aulacorthum solani</i>          |
|                      |                       | 25                | 9                         |                  | 2                       | 2                     |                    | 3                      | 10                 |                    | <i>Brachycaudus helichrysi</i>     |
|                      | 1                     | 1                 |                           |                  |                         |                       |                    | 2                      |                    |                    | <i>Brevicoryne brassicae</i>       |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Cavariella aegopodii</i>        |
|                      | 1                     |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Chaetosiphon fragaefolii</i>    |
|                      | 1                     |                   | 6                         | 10               | 65                      |                       | 17                 | 22                     | 29                 | 43                 | <i>Cinara</i> spp.                 |
| 14                   | 2                     | 2                 | 2                         | 4                | 8                       | 2                     |                    | 4                      | 4                  |                    | <i>Drepanosiphum platanoidis</i>   |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Dysaphis plantaginea</i>        |
| 1                    |                       | 2                 | 1                         |                  | 2                       | 2                     | 2                  | 2                      |                    |                    | <i>Elatobium abietinum</i>         |
| 3                    | 2                     | 1                 |                           | 6                | 4                       | 8                     | 2                  | 1                      | 3                  |                    | <i>Eriosoma ulmi</i>               |
| 2                    |                       | 6                 |                           |                  |                         |                       | 7                  | 4                      | 1                  |                    | <i>Hyalopterus pruni</i>           |
|                      |                       | 1                 |                           | 2                |                         |                       |                    |                        |                    |                    | <i>Hyperomyzus lactucae</i>        |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Macrosiphum euphorbiae</i>      |
| 13                   | 2                     |                   |                           | 2                | 5                       |                       | 2                  | 2                      |                    |                    | <i>Megoura viciae</i>              |
|                      |                       | 4                 |                           |                  | 3                       |                       |                    |                        |                    |                    | <i>Metopolophium dirhodum</i>      |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Metopolophium festucae</i> s.l. |
|                      |                       |                   |                           | 2                |                         |                       |                    |                        |                    |                    | <i>Myzus ascalonicus</i>           |
|                      |                       |                   |                           |                  | 2                       |                       |                    |                        |                    |                    | <i>Myzus certus</i>                |
| 7                    | 3                     | 15                | 2                         | 10               | 6                       | 6                     | 20                 | 36                     | 12                 | 7                  | <i>Myzus ornatus</i>               |
| 4                    |                       | 4                 |                           |                  |                         |                       | 2                  | 2                      |                    | 2                  | <i>Myzus persicae</i> grp.         |
| 3331                 | 71                    | 69                | 33                        | 58               | 75                      | 20                    | 25                 | 49                     | 45                 | 9                  | <i>Nasonovia ribisnigri</i>        |
|                      |                       | 507               |                           |                  |                         |                       | 704                | 2                      |                    |                    | <i>Pemphigus</i> spp.              |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Phorodon humuli</i>             |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Phyllaphis fagi</i>             |
| 5600                 | 296                   | 1034              | 280                       | 218              | 129                     | 110                   | 171                | 76                     | 251                | 475                | <i>Rhopalosiphum insertum</i>      |
|                      |                       | 4                 |                           | 2                | 3                       |                       | 1                  |                        |                    |                    | <i>Rhopalosiphum maidis</i>        |
| 3966                 | 948                   | 3892              | 562                       | 934              | 1458                    | 528                   | 1480               | 728                    | 602                | 85                 | <i>Rhopalosiphum padi</i>          |
| 10                   | 4                     | 14                | 5                         | 16               | 4                       | 4                     | 10                 | 5                      | 14                 | 9                  | <i>Sitobion avenae</i>             |
| 4                    |                       |                   |                           |                  | 6                       |                       |                    | 2                      | 1                  |                    | <i>Sitobion fragariae</i>          |

ROTHAMSTED REPORT FOR 1987, PART 2

TABLE

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

| Sites                              | Elgin<br>(916) | Dundee<br>(907) | Edinburgh<br>(912) | Pathhead<br>(931) | Auchincruive<br>(923) | Newcastle<br>(906) | Belfast<br>(927) | High Mowthorpe<br>(905) | Preston<br>(922) | Kirton<br>(934) | Shardlow<br>(919) |
|------------------------------------|----------------|-----------------|--------------------|-------------------|-----------------------|--------------------|------------------|-------------------------|------------------|-----------------|-------------------|
| Species                            |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Acyrtosiphon pisum</i>          |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Amphorophora rubi</i>           |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Aphis fabae</i> grp.            |                |                 |                    |                   |                       |                    | 2                |                         |                  | 1               |                   |
| <i>Aphis</i> spp.                  |                |                 |                    |                   |                       |                    |                  | 4                       | 2                | 9               |                   |
| <i>Aulacorthum solani</i>          |                |                 |                    |                   |                       |                    |                  |                         | 1                | 3               |                   |
| <i>Brachycaudus helichrysi</i>     |                | 2               | 1                  | 2                 | 1                     | 1                  |                  | 1                       | 3                | 1               | 1                 |
| <i>Brevicoryne brassicae</i>       |                |                 |                    |                   |                       | 1                  |                  |                         |                  |                 |                   |
| <i>Cavariella aegopodii</i>        |                |                 |                    |                   |                       |                    |                  | 1                       | 6                |                 |                   |
| <i>Chaetosiphon fragaefolii</i>    |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Cinara</i> spp.                 |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Drepanosiphum platanoidis</i>   | 1              | 8               | 3                  | 4                 | 5                     | 10                 | 18               | 4                       | 221              | 9               | 13                |
| <i>Dysaphis plantaginea</i>        |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Elatobium abietinum</i>         |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Eriosoma ulmi</i>               |                |                 |                    |                   |                       |                    | 1                | 2                       | 4                | 9               | 4                 |
| <i>Hyalopterus pruni</i>           |                | 4               |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Hyperomyzus lactucae</i>        |                | 1               | 1                  | 1                 |                       |                    | 1                | 1                       | 2                | 2               | 3                 |
| <i>Macrosiphum euphorbiae</i>      |                |                 | 1                  |                   | 1                     |                    | 1                |                         |                  |                 |                   |
| <i>Megoura viciae</i>              |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Metopolophium dirhodum</i>      | 5              | 10              | 1                  | 9                 | 5                     | 2                  | 3                | 2                       | 72               | 1               | 2                 |
| <i>Metopolophium festucae</i> s.l. | 1              |                 | 1                  |                   |                       |                    | 1                | 1                       | 2                |                 |                   |
| <i>Myzus ascalonicus</i>           |                |                 | 1                  | 1                 |                       |                    |                  | 1                       |                  | 1               |                   |
| <i>Myzus certus</i>                |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Myzus ornatus</i>               |                |                 | 1                  |                   |                       |                    |                  |                         |                  |                 | 1                 |
| <i>Myzus persicae</i> grp.         |                |                 |                    | 1                 |                       |                    | 2                | 1                       | 4                | 8               | 5                 |
| <i>Nasonovia ribisnigri</i>        |                |                 |                    |                   |                       |                    |                  |                         |                  | 1               |                   |
| <i>Pemphigus</i> spp.              | 13             | 8               | 20                 | 4                 | 2                     | 18                 | 14               | 7                       | 84               | 58              | 21                |
| <i>Phorodon humuli</i>             |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Phyllaphis fagi</i>             | 1              |                 |                    |                   |                       |                    | 3                |                         | 2                |                 |                   |
| <i>Rhopalosiphum insertum</i>      | 141            | 240             | 214                | 389               | 335                   | 480                | 843              | 185                     | 4191             | 356             | 654               |
| <i>Rhopalosiphum maidis</i>        |                |                 |                    |                   |                       | 2                  |                  |                         |                  | 1               | 1                 |
| <i>Rhopalosiphum padi</i>          | 235            | 500             | 544                | 368               | 577                   | 437                | 232              | 297                     | 4122             | 1134            | 1405              |
| <i>Sitobion avenae</i>             |                | 1               |                    |                   |                       |                    |                  |                         | 1                | 7               |                   |
| <i>Sitobion fragariae</i>          |                |                 | 1                  | 2                 |                       | 3                  | 4                | 1                       | 8                |                 | 7                 |

## ROTHAMSTED INSECT SURVEY

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of aphids of economic, or other, interest reported in the Weekly Bulletin 1987  
8 October to 4 November 1987

| Sites                |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | Species                            |
|----------------------|-----------------------|-------------------|---------------------------|------------------|-------------------------|-----------------------|--------------------|------------------------|--------------------|--------------------|------------------------------------|
| Aberystwyth<br>(911) | Broom's Barn<br>(904) | Hereford<br>(917) | Rothamsted Tower<br>(901) | Writtle<br>(924) | Long Ashton II<br>(936) | Silwood Park<br>(908) | Wye, Kent<br>(903) | Littlehampton<br>(933) | Starcross<br>(913) | Rosewarne<br>(910) |                                    |
|                      |                       | 1                 |                           |                  |                         |                       |                    |                        |                    |                    | <i>Acyrtosiphon pisum</i>          |
| 2                    | 10                    | 2                 |                           |                  |                         |                       |                    |                        |                    |                    | <i>Amphorophora rubi</i>           |
| 7                    | 14                    | 4                 |                           | 3                |                         | 2                     | 2                  | 2                      |                    |                    | <i>Aphis fabae</i> grp.            |
|                      | 1                     |                   |                           |                  |                         | 1                     |                    |                        |                    |                    | <i>Aphis</i> spp.                  |
|                      | 2                     | 1                 | 4                         | 2                | 2                       |                       | 2                  | 3                      | 1                  | 1                  | <i>Aulacorthum solani</i>          |
|                      |                       |                   |                           | 1                |                         |                       |                    |                        | 1                  |                    | <i>Brachycaudus helichrysi</i>     |
| 3                    | 8                     |                   |                           |                  |                         |                       | 1                  | 1                      | 4                  |                    | <i>Brevicoryne brassicae</i>       |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Cavariella aegopodii</i>        |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Chaetosiphon fragaefolii</i>    |
|                      |                       |                   |                           | 1                | 1                       |                       |                    |                        |                    |                    | <i>Cinara</i> spp.                 |
| 30                   | 1                     | 16                | 5                         | 6                | 38                      |                       | 3                  | 4                      | 14                 | 21                 | <i>Drepanosiphum platanoidis</i>   |
|                      | 1                     |                   |                           |                  |                         |                       |                    |                        | 2                  |                    | <i>Dysaphis plantaginea</i>        |
| 2                    |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Elatobium abietinum</i>         |
| 3                    |                       | 6                 | 3                         | 11               |                         | 8                     | 15                 | 2                      |                    | 1                  | <i>Eriosoma ulmi</i>               |
|                      |                       |                   |                           | 1                |                         |                       |                    |                        | 1                  |                    | <i>Hyalopterus pruni</i>           |
| 1                    | 2                     |                   | 1                         | 1                |                         |                       | 1                  | 1                      |                    |                    | <i>Hyperomyzus lactucae</i>        |
|                      |                       |                   | 1                         |                  |                         |                       |                    |                        |                    |                    | <i>Macrosiphum euphorbiae</i>      |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Megoura viciae</i>              |
| 6                    |                       | 3                 | 1                         | 2                | 2                       | 1                     | 3                  | 4                      |                    |                    | <i>Metopolophium dirhodum</i>      |
|                      |                       | 2                 | 1                         |                  | 1                       |                       |                    |                        | 1                  |                    | <i>Metopolophium festucae</i> s.l. |
|                      | 1                     |                   |                           |                  |                         |                       | 1                  |                        |                    |                    | <i>Myzus ascalonicus</i>           |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Myzus certus</i>                |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | <i>Myzus ornatus</i>               |
|                      | 25                    | 1                 |                           | 3                |                         | 1                     | 1                  | 3                      | 3                  | 2                  | <i>Myzus persicae</i> grp.         |
| 3                    |                       |                   |                           |                  | 1                       | 2                     |                    | 1                      |                    |                    | <i>Nasonovia ribisnigri</i>        |
| 292                  | 44                    | 38                | 7                         | 27               | 76                      | 14                    | 28                 | 11                     | 16                 | 6                  | <i>Pemphigus</i> spp.              |
|                      |                       | 28                |                           |                  | 1                       |                       | 11                 |                        |                    |                    | <i>Phorodon humuli</i>             |
| 3                    |                       |                   |                           | 1                | 2                       |                       |                    |                        |                    |                    | <i>Phyllaphis fagi</i>             |
| 4154                 | 649                   | 347               | 624                       | 512              | 399                     | 442                   | 644                | 612                    | 455                | 1018               | <i>Rhopalosiphum insertum</i>      |
| 1                    | 1                     |                   | 1                         |                  | 2                       |                       |                    |                        |                    |                    | <i>Rhopalosiphum maidis</i>        |
| 365                  | 1059                  | 669               | 445                       | 1211             | 747                     | 356                   | 925                | 516                    | 335                | 24                 | <i>Rhopalosiphum padi</i>          |
| 1                    | 4                     | 2                 | 1                         |                  | 2                       | 1                     | 1                  | 1                      |                    |                    | <i>Sitobion avenae</i>             |
| 5                    |                       | 1                 | 7                         | 5                | 9                       | 5                     | 5                  | 5                      | 4                  | 1                  | <i>Sitobion fragariae</i>          |

# ROTHAMSTED REPORT FOR 1987, PART 2

TABLE

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

| Sites                              | Elgin<br>(916) | Dundee<br>(907) | Edinburgh<br>(912) | Pathhead<br>(931) | Auchincruive<br>(923) | Newcastle<br>(906) | Belfast<br>(927) | High Mowthorpe<br>(905) | Preston<br>(922) | Kirton<br>(934) | Shardlow<br>(919) |
|------------------------------------|----------------|-----------------|--------------------|-------------------|-----------------------|--------------------|------------------|-------------------------|------------------|-----------------|-------------------|
| Species                            |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Acyrtosiphon pisum</i>          |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Amphorophora rubi</i>           |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Aphis fabae</i> grp.            |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Aphis</i> spp.                  |                |                 |                    |                   |                       |                    |                  |                         |                  | 1               |                   |
| <i>Aulacorthum solani</i>          |                |                 |                    |                   |                       |                    |                  |                         |                  |                 | 1                 |
| <i>Brachycaudus helichrysi</i>     |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Brevicoryne brassicae</i>       |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Cavariella aegopodii</i>        |                |                 |                    |                   |                       |                    |                  |                         | 1                |                 |                   |
| <i>Chaetosiphon fragaefolii</i>    |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Cinara</i> spp.                 |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Drepanosiphum platanoidis</i>   |                | 2               |                    |                   | 1                     | 2                  | 1                | 3                       | 4                | 2               | 1                 |
| <i>Dysaphis plantaginea</i>        |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Elatobium abietinum</i>         |                |                 |                    |                   | 1                     |                    | 1                |                         |                  |                 |                   |
| <i>Eriosoma ulmi</i>               |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Hyalopterus pruni</i>           |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Hyperomyzus lactucae</i>        |                |                 |                    |                   |                       |                    |                  |                         |                  | 1               | 1                 |
| <i>Macrosiphum euphorbiae</i>      |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Megoura viciae</i>              |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Metopolophium dirhodum</i>      |                | 1               | 1                  |                   | 1                     |                    | 2                |                         | 4                |                 | 1                 |
| <i>Metopolophium festucae</i> s.l. |                |                 |                    | 1                 |                       |                    |                  |                         |                  |                 |                   |
| <i>Myzus ascalonicus</i>           |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Myzus certus</i>                |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Myzus ornatus</i>               |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Myzus persicae</i> grp.         |                |                 |                    |                   |                       |                    | 2                |                         |                  |                 |                   |
| <i>Nasonovia ribisnigri</i>        |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Pemphigus</i> spp.              | 1              | 1               |                    |                   |                       |                    |                  |                         |                  | 5               |                   |
| <i>Phorodon humuli</i>             |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Phyllaphis fagi</i>             |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Rhopalosiphum insertum</i>      | 14             | 24              | 1                  |                   | 15                    | 1                  | 25               | 1                       | 43               | 33              | 17                |
| <i>Rhopalosiphum maidis</i>        |                |                 |                    |                   |                       |                    |                  |                         |                  |                 |                   |
| <i>Rhopalosiphum padi</i>          | 21             | 32              | 2                  | 1                 | 9                     | 4                  | 10               | 9                       | 39               | 71              | 61                |
| <i>Sitobion avenae</i>             |                |                 |                    |                   | 1                     |                    |                  |                         |                  |                 |                   |
| <i>Sitobion fragariae</i>          |                |                 |                    |                   |                       |                    | 5                |                         | 2                | 2               | 1                 |

## ROTHAMSTED INSECT SURVEY

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of aphids of economic, or other, interest reported in the Weekly Bulletin 1987.  
5 November to 2 December 1987

|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    | Sites | Species                            |
|----------------------|-----------------------|-------------------|---------------------------|------------------|-------------------------|-----------------------|--------------------|------------------------|--------------------|--------------------|-------|------------------------------------|
| Aberystwyth<br>(911) | Broom's Barn<br>(904) | Hereford<br>(917) | Rothamsted Tower<br>(901) | Writtle<br>(924) | Long Ashton II<br>(936) | Silwood Park<br>(908) | Wye, Kent<br>(903) | Littlehampton<br>(933) | Starcross<br>(913) | Rosewarne<br>(910) |       |                                    |
|                      | 2                     |                   |                           | 1<br>1           |                         |                       |                    |                        |                    | 1                  |       | <i>Acyrtosiphon pisum</i>          |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Amphorophora rubi</i>           |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Aphis fabae</i> grp.            |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Aphis</i> spp.                  |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Aulacorthum solani</i>          |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Brachycaudus helichrysi</i>     |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Brevicoryne brassicae</i>       |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Cavariella aegopodii</i>        |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Chaetosiphon fragaefolii</i>    |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Cinara</i> spp.                 |
| 2                    |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Drepanosiphum platanoidis</i>   |
| 4                    | 1                     | 1                 |                           |                  |                         | 2<br>1                |                    |                        | 2                  |                    |       | <i>Dysaphis plantaginea</i>        |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Elatobium abietinum</i>         |
| 2                    |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Eriosoma ulmi</i>               |
| 1                    |                       | 3                 |                           | 2                |                         |                       | 4                  |                        |                    |                    |       | <i>Hyalopterus pruni</i>           |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Hyperomyzus lactucae</i>        |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Macrosiphum euphorbiae</i>      |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Megoura viciae</i>              |
|                      |                       |                   |                           |                  |                         |                       | 1                  | 1                      |                    |                    |       | <i>Metopolophium dirhodum</i>      |
|                      |                       |                   |                           |                  |                         |                       |                    |                        | 1                  |                    |       | <i>Metopolophium festucae</i> s.l. |
| 1                    |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Myzus ascalonicus</i>           |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Myzus certus</i>                |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    | 1                  |       | <i>Myzus ornatus</i>               |
|                      | 2                     |                   |                           |                  |                         |                       |                    |                        | 1                  |                    |       | <i>Myzus persicae</i> grp.         |
|                      |                       |                   |                           |                  |                         |                       | 1                  |                        |                    |                    |       | <i>Nasonovia ribisnigri</i>        |
|                      |                       | 1                 |                           |                  | 1                       | 1                     | 1                  | 1                      | 3                  | 1                  |       | <i>Pemphigus</i> spp.              |
|                      |                       | 1                 |                           |                  |                         |                       | 2                  |                        |                    |                    |       | <i>Phorodon humuli</i>             |
|                      |                       |                   |                           |                  |                         | 1                     |                    |                        | 1                  |                    |       | <i>Phyllaphis fagi</i>             |
| 194                  | 53                    | 43                | 23                        | 42               | 14                      | 45                    | 73                 | 62                     | 92                 | 277                |       | <i>Rhopalosiphum insertum</i>      |
|                      |                       |                   |                           |                  |                         |                       |                    |                        |                    |                    |       | <i>Rhopalosiphum maidis</i>        |
| 16                   | 46                    | 30                | 13                        | 69               | 12                      | 22                    | 84                 | 35                     | 78                 | 6                  |       | <i>Rhopalosiphum padi</i>          |
|                      | 1                     |                   |                           |                  |                         | 1                     |                    |                        |                    |                    |       | <i>Sitobion avenae</i>             |
| 2                    | 6                     | 3                 | 3                         | 6                | 5                       | 3                     | 6                  | 7                      | 3                  | 1                  |       | <i>Sitobion fragariae</i>          |

## ROTHAMSTED REPORT FOR 1987, PART 2

TABLE

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

| Pest Species                 | Year | Inverpolly<br>352 | Lairg<br>456 | Harris<br>349 | Cromarty<br>398 | Newton, Elgin<br>457 | Beinn Eighe<br>350 | Fort Augustus<br>49 | Kindrogan<br>48 | Dundee<br>47 | Rowardennan<br>97 | East Craigs<br>261 | Brodick<br>446 |
|------------------------------|------|-------------------|--------------|---------------|-----------------|----------------------|--------------------|---------------------|-----------------|--------------|-------------------|--------------------|----------------|
| <i>Hydraecia micacea</i>     | 1985 | —                 | 2            | 12            | 34              | 36                   | 38                 | 22                  | 13              | 2            | 0                 | 3                  | 7              |
| Rosy Rustic                  | 1986 | 6                 | 1            | 11            | 19              | 46                   | 27                 | 16                  | 15              | 1            | 7                 | 1                  | 8              |
| <i>Bupalus piniaria</i>      | 1985 | —                 | 0            | 0             | 0               | 4                    | 3                  | 5                   | 0               | 0            | 0                 | 0                  | 0              |
| Bordered White               | 1986 | 0                 | 2            | 0             | 0               | 0                    | 0                  | 1                   | 0               | 1            | 0                 | 0                  | 2              |
| <i>Panolis flammea</i>       | 1985 | —                 | 0            | 0             | 1               | 0                    | 8                  | 2                   | 0               | 0            | 0                 | 0                  | 0              |
| Pine Beauty                  | 1986 | 0                 | 1            | 0             | 0               | 1                    | 2                  | 0                   | 0               | 0            | 0                 | 0                  | 0              |
| <i>Cerapteryx graminis</i>   | 1985 | —                 | 1            | 118           | 3               | 12                   | 38                 | 8                   | 90              | 0            | 6                 | 1                  | 15             |
| Antler Moth                  | 1986 | 36                | 44           | 52            | 1               | 25                   | 24                 | 7                   | 37              | 2            | 2                 | 1                  | 5              |
| <i>Agriopis aurantiaria</i>  | 1985 | —                 | 1            | 0             | 11              | 1                    | 0                  | 3                   | 32              | 0            | 7                 | 0                  | 11             |
| Scarce Umber                 | 1986 | 7                 | 1            | 0             | 8               | 1                    | 1                  | 10                  | 38              | 0            | 16                | 0                  | 1              |
| <i>Operophtera fagata</i>    | 1985 | —                 | 0            | 0             | 19              | 6                    | 0                  | 15                  | 55              | 0            | 46                | 0                  | 3              |
| Northern Winter Moth         | 1986 | 9                 | 0            | 0             | 17              | 4                    | 0                  | 12                  | 69              | 0            | 29                | 0                  | 6              |
| <i>Apamea sordens</i>        | 1985 | —                 | 0            | 0             | 2               | 0                    | 0                  | 0                   | 0               | 2            | 0                 | 0                  | 0              |
| Rustic Shoulder-knot         | 1986 | 0                 | 0            | 0             | 0               | 1                    | 0                  | 0                   | 0               | 4            | 0                 | 8                  | 0              |
| <i>Gortyna flavago</i>       | 1985 | —                 | 0            | 0             | 0               | 1                    | 0                  | 0                   | 0               | 0            | 0                 | 0                  | 0              |
| Frosted Orange               | 1986 | 0                 | 0            | 0             | 0               | 3                    | 0                  | 0                   | 0               | 0            | 0                 | 0                  | 0              |
| <i>Mamestra brassicae</i>    | 1985 | —                 | 0            | 0             | 0               | 2                    | 0                  | 1                   | 0               | 31           | 0                 | 3                  | 0              |
| Cabbage Moth                 | 1986 | 0                 | 0            | 0             | 0               | 1                    | 0                  | 0                   | 0               | 8            | 0                 | 0                  | 0              |
| <i>Noctua pronuba</i>        | 1985 | —                 | 5            | 2             | 33              | 6                    | 3                  | 2                   | 4               | 1            | 2                 | 12                 | 10             |
| Large Yellow Underwing       | 1986 | 1                 | 4            | 1             | 15              | 5                    | 4                  | 0                   | 1               | 6            | 0                 | 3                  | 13             |
| <i>Lacanobia oleracea</i>    | 1985 | —                 | 2            | 0             | 0               | 1                    | 2                  | 0                   | 0               | 3            | 0                 | 8                  | 0              |
| Bright-line Brown-eye        | 1986 | 3                 | 0            | 0             | 1               | 4                    | 1                  | 1                   | 0               | 0            | 0                 | 1                  | 0              |
| <i>Euxoa nigricans</i>       | 1985 | —                 | 0            | 0             | 0               | 0                    | 0                  | 0                   | 0               | 7            | 0                 | 0                  | 0              |
| Garden Dart                  | 1986 | 0                 | 0            | 0             | 0               | 0                    | 0                  | 0                   | 0               | 2            | 0                 | 0                  | 0              |
| <i>Mesapamea secalis</i>     | 1985 | —                 | 4            | 1             | 36              | 65                   | 6                  | 9                   | 2               | 25           | 3                 | 49                 | 12             |
| Common Rustic                | 1986 | 4                 | 4            | 1             | 12              | 35                   | 2                  | 3                   | 1               | 4            | 0                 | 26                 | 6              |
| <i>Melanchra persicariae</i> | 1985 | —                 | 0            | 0             | 0               | 0                    | 0                  | 0                   | 0               | 0            | 0                 | 0                  | 0              |
| Dot Moth                     | 1986 | 0                 | 0            | 0             | 0               | 0                    | 0                  | 0                   | 0               | 0            | 0                 | 0                  | 0              |
| <i>Operophtera brumata</i>   | 1985 | —                 | 0            | 0             | 24              | 11                   | 20                 | 10                  | 127             | 1            | 2286              | 0                  | 12             |
| Winter Moth                  | 1986 | 8                 | 12           | 0             | 8               | 1                    | 16                 | 7                   | 174             | 1            | 3386              | 0                  | 10             |

## ROTHAMSTED INSECT SURVEY

2(a)

of moths of economic, or other importance for 1985 and 1986

|    | Auchincruive | Embleton | Culzean Castle | Kielder | Mabie | Stocksfield | Chester-le-Street | Forest-in-Teesdale | Windermere | Wykeham | Arnside | Baldersby | Harrogate | Year | Pest Species                 |
|----|--------------|----------|----------------|---------|-------|-------------|-------------------|--------------------|------------|---------|---------|-----------|-----------|------|------------------------------|
|    | 293          | 464      | 264            | 296     | 454   | 362         | 39                | 416                | 323        | 187     | 453     | 315       | 410       |      |                              |
| 0  | —            | 34       | 30             | 5       | —     | 1           | 0                 | 0                  | 0          | 22      | 12      | 15        | 4         | 1985 | <i>Hydraecia micacea</i>     |
| 1  | 36           | 42       | 10             | 9       | 17    | 1           | 1                 | 0                  | 0          | 24      | 11      | 69        | 4         | 1986 | Rosy Rustic                  |
| 0  | —            | 7        | 0              | 0       | —     | 0           | 0                 | 0                  | 0          | 1       | 1       | 0         | 1         | 1985 | <i>Bupalus piniaria</i>      |
| 0  | 0            | 2        | 0              | 0       | 0     | 0           | 0                 | 0                  | 0          | 4       | 0       | 0         | 0         | 1986 | Bordered white               |
| 0  | —            | 1        | 0              | 0       | —     | 0           | 0                 | 0                  | 0          | 1       | 0       | 0         | 0         | 1985 | <i>Panolis flammea</i>       |
| 0  | 0            | 0        | 0              | 0       | 0     | 0           | 0                 | 0                  | 0          | 4       | 0       | 0         | 0         | 1986 | Pine Beauty                  |
| 0  | —            | 2        | 14             | 8       | —     | 1           | 13                | 1                  | 15         | 2       | 1       | 1         | 1         | 1985 | <i>Cerapteryx graminis</i>   |
| 0  | 0            | 0        | 12             | 7       | 0     | 0           | 3                 | 0                  | 13         | 0       | 0       | 0         | 0         | 1986 | Antler Moth                  |
| 0  | —            | 0        | 14             | —       | —     | 0           | 0                 | 0                  | 4          | 1       | 0       | 0         | 2         | 1985 | <i>Agriopsis aurantaria</i>  |
| 0  | 0            | 0        | 29             | 0       | 0     | 0           | 0                 | 0                  | 0          | 37      | 2       | 0         | 11        | 1986 | Scarce Umber                 |
| 0  | —            | 1        | 21             | —       | —     | 0           | 0                 | 2                  | 9          | 0       | 0       | 0         | 3         | 1985 | <i>Operophtera fagata</i>    |
| 0  | 3            | 0        | 36             | 0       | 1     | 2           | 0                 | 2                  | 37         | 2       | 0       | 0         | 22        | 1986 | Northern Winter Moth         |
| 1  | —            | 0        | 2              | 0       | —     | 1           | 0                 | 0                  | 0          | 0       | 0       | 15        | 0         | 1985 | <i>Apamea sordens</i>        |
| 3  | 3            | 0        | 0              | 0       | 0     | 0           | 0                 | 0                  | 0          | 0       | 1       | 6         | 0         | 1986 | Rustic Shoulder-knot         |
| 0  | —            | 0        | 0              | 0       | —     | 2           | 0                 | 0                  | 0          | 0       | 0       | 0         | 3         | 1985 | <i>Gortyna flavago</i>       |
| 0  | 8            | 0        | 0              | 0       | 0     | 1           | 0                 | 0                  | 0          | 0       | 3       | 3         | 7         | 1986 | Frosted Orange               |
| 0  | —            | 1        | 0              | 2       | —     | 5           | 0                 | 0                  | 0          | 0       | 3       | 14        | 0         | 1985 | <i>Mamestra brassicae</i>    |
| 0  | 4            | 0        | 0              | 0       | 0     | 6           | 0                 | 1                  | 0          | 0       | 1       | 17        | 0         | 1986 | Cabbage Moth                 |
| 4  | —            | 28       | 8              | 31      | —     | 16          | 9                 | 11                 | 8          | 37      | 14      | 6         | 6         | 1985 | <i>Noctua pronuba</i>        |
| 10 | 26           | 19       | 8              | 7       | 28    | 10          | 1                 | 52                 | 8          | 27      | 13      | 3         | 3         | 1986 | Large Yellow Underwing       |
| 10 | —            | 6        | 0              | 0       | —     | 7           | 0                 | 0                  | 5          | 1       | 36      | 0         | 0         | 1985 | <i>Lacanobia oleracea</i>    |
| 9  | 9            | 4        | 1              | 0       | 0     | 3           | 0                 | 0                  | 4          | 13      | 42      | 0         | 0         | 1986 | Bright-line Brown-eye        |
| 0  | —            | 0        | 0              | 1       | —     | 8           | 0                 | 0                  | 0          | 0       | 0       | 0         | 0         | 1985 | <i>Euxoa nigricans</i>       |
| 0  | 4            | 0        | 0              | 0       | 4     | 0           | 0                 | 0                  | 0          | 0       | 0       | 0         | 0         | 1986 | Garden Dart                  |
| 29 | —            | 19       | 29             | 65      | —     | 26          | 1                 | 12                 | 62         | 89      | 169     | 75        | 75        | 1985 | <i>Mesapamea secalis</i>     |
| 23 | 55           | 17       | 6              | 15      | 7     | 36          | 0                 | 17                 | 15         | 30      | 82      | 21        | 21        | 1986 | Common Rustic                |
| 0  | —            | 0        | 0              | 0       | —     | 0           | 0                 | 2                  | 0          | 1       | 7       | 0         | 0         | 1985 | <i>Melanchra persicariae</i> |
| 0  | 0            | 0        | 0              | 0       | 0     | 0           | 0                 | 7                  | 0          | 2       | 8       | 0         | 0         | 1986 | Dot Moth                     |
| 0  | —            | 2        | 42             | —       | —     | 4           | 0                 | 254                | 28         | 23      | 0       | 54        | 54        | 1985 | <i>Operophtera brumata</i>   |
| 1  | 5            | 0        | 60             | 0       | 0     | 0           | 0                 | 31                 | 34         | 11      | 2       | 79        | 79        | 1986 | Winter Moth                  |

## ROTHAMSTED REPORT FOR 1987, PART 2

TABLE

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

| Pest Species                                       | Year | Shadwell<br>465 | Spurn Head<br>131 | Bangor<br>35 | Jodrell Bank<br>337 | Sherwood Forest<br>439 | Gibraltar Point<br>223 | Wells-next-the-Sea<br>274 | Sutton Bonington<br>168 | Terrington<br>381 | Preston Montford<br>382 | Empingham<br>280 | Compton Park<br>424 |
|----------------------------------------------------|------|-----------------|-------------------|--------------|---------------------|------------------------|------------------------|---------------------------|-------------------------|-------------------|-------------------------|------------------|---------------------|
| <i>Hydraecia micacea</i><br>Rosy Rustic            | 1985 | —               | 54                | 0            | 3                   | 4                      | 23                     | 0                         | 4                       | 9                 | 10                      | 1                | 19                  |
|                                                    | 1986 | 3               | 116               | 0            | 14                  | 5                      | 41                     | 0                         | 7                       | 19                | 9                       | 3                | 7                   |
| <i>Bupalus piniaria</i><br>Bordered White          | 1985 | —               | 0                 | 0            | 0                   | 0                      | 0                      | 0                         | 0                       | 6                 | 0                       | 0                | 0                   |
|                                                    | 1986 | 0               | 0                 | 0            | 0                   | 0                      | 0                      | 0                         | 0                       | 0                 | 0                       | 3                | 0                   |
| <i>Panolis flammea</i><br>Pine Beauty              | 1985 | —               | 0                 | 0            | 1                   | 0                      | 0                      | 0                         | 0                       | 0                 | 0                       | 0                | 0                   |
|                                                    | 1986 | 0               | 0                 | 0            | 1                   | 0                      | 0                      | 0                         | 0                       | 0                 | 0                       | 0                | 0                   |
| <i>Cerapteryx graminis</i><br>Antler Moth          | 1985 | —               | 6                 | 0            | 8                   | 29                     | 1                      | 0                         | 0                       | 0                 | 0                       | 0                | 1                   |
|                                                    | 1986 | 4               | 5                 | 0            | 10                  | 24                     | 8                      | 0                         | 0                       | 0                 | 1                       | 0                | 0                   |
| <i>Agriopis aurantiaria</i><br>Scarce Umber        | 1985 | —               | 0                 | 0            | 1                   | 4                      | 0                      | 0                         | 0                       | 0                 | 5                       | 0                | 0                   |
|                                                    | 1986 | 2               | 0                 | 0            | 2                   | 7                      | —                      | 0                         | 1                       | 0                 | 1                       | 0                | —                   |
| <i>Operophtera fagata</i><br>Northern Winter Moth  | 1985 | —               | 0                 | 0            | 8                   | 3                      | 0                      | 0                         | 0                       | 0                 | 2                       | 0                | 0                   |
|                                                    | 1986 | 0               | 0                 | 0            | 14                  | 19                     | —                      | 0                         | 0                       | 0                 | 1                       | 0                | —                   |
| <i>Apamea sordens</i><br>Rustic Shoulder-knot      | 1985 | —               | 12                | 0            | 0                   | 0                      | 8                      | 0                         | 2                       | 3                 | 0                       | 0                | 5                   |
|                                                    | 1986 | 4               | 12                | 1            | 0                   | 2                      | 0                      | 0                         | 1                       | 2                 | 0                       | 2                | 11                  |
| <i>Gortyna flavago</i><br>Frosted Orange           | 1985 | —               | 1                 | 0            | 0                   | 0                      | 0                      | 0                         | 1                       | 4                 | 1                       | 0                | 0                   |
|                                                    | 1986 | 0               | 1                 | 0            | 2                   | 0                      | 1                      | 4                         | 1                       | 5                 | 2                       | 0                | 0                   |
| <i>Mamestra brassicae</i><br>Cabbage Moth          | 1985 | —               | 0                 | 1            | 0                   | 1                      | 0                      | 0                         | 0                       | 5                 | 1                       | 4                | 1                   |
|                                                    | 1986 | 0               | 1                 | 9            | 0                   | 0                      | 0                      | 10                        | 2                       | 14                | 2                       | 3                | 2                   |
| <i>Noctua pronuba</i><br>Large Yellow Underwing    | 1985 | —               | 107               | 6            | 6                   | 2                      | 8                      | 4                         | 15                      | 6                 | 10                      | 24               | 32                  |
|                                                    | 1986 | 15              | 54                | 19           | 9                   | 3                      | 5                      | 2                         | 45                      | 3                 | 9                       | 19               | 27                  |
| <i>Lacanobia oleracea</i><br>Bright-line Brown-eye | 1985 | —               | 21                | 0            | 0                   | 1                      | 1                      | 1                         | 8                       | 34                | 2                       | 2                | 3                   |
|                                                    | 1986 | 3               | 12                | 0            | 1                   | 2                      | 15                     | 4                         | 5                       | 6                 | 0                       | 5                | 3                   |
| <i>Euxoa nigricans</i><br>Garden Dart              | 1985 | —               | 0                 | 0            | 9                   | 0                      | 0                      | 0                         | 0                       | 0                 | 0                       | 0                | 0                   |
|                                                    | 1986 | 0               | 0                 | 0            | 2                   | 0                      | 0                      | 0                         | 0                       | 0                 | 0                       | 0                | 0                   |
| <i>Mesapamea secalis</i><br>Common Rustic          | 1985 | —               | 47                | 14           | 18                  | 4                      | 3                      | 6                         | 44                      | 83                | 95                      | 11               | 19                  |
|                                                    | 1986 | 29              | 21                | 8            | 13                  | 3                      | 39                     | 5                         | 74                      | 93                | 72                      | 30               | 12                  |
| <i>Melanchra persicariae</i><br>Dot Moth           | 1985 | —               | 1                 | 0            | 0                   | 1                      | 0                      | 1                         | 5                       | 3                 | 0                       | 6                | 2                   |
|                                                    | 1986 | 0               | 0                 | 0            | 0                   | 0                      | 0                      | 0                         | 2                       | 3                 | 0                       | 12               | 1                   |
| <i>Operophtera brumata</i><br>Winter Moth          | 1985 | —               | 0                 | 0            | 32                  | 1                      | 3                      | 0                         | 6                       | 0                 | 8                       | 15               | 0                   |
|                                                    | 1986 | 58              | 1                 | 0            | 160                 | 9                      | —                      | 0                         | 6                       | 0                 | 19                      | 11               | —                   |

## ROTHAMSTED INSECT SURVEY

## 2(b)

of moths of economic, or other importance for 1985 and 1986

|    | Santon Downham | Aberystwyth | Monks Wood (Ewingswode) | Broom's Barn | Tregaron | Llysdinam | Luddington | Aberporth | Cockayne Hatley | Hereford | Cork | Evesham | Year                         | Pest Species |
|----|----------------|-------------|-------------------------|--------------|----------|-----------|------------|-----------|-----------------|----------|------|---------|------------------------------|--------------|
|    | 259            | 340         | 277                     | 88           | 331      | 111       | 463        | 440       | 336             | 212      | 459  | 444     |                              |              |
| 53 | 5              | 2           | 1                       | 14           | 4        | 1         | 0          | 8         | 28              | —        | —    | 1985    | <i>Hydraecia micacea</i>     |              |
| 97 | 6              | 4           | 11                      | 59           | 7        | 3         | 7          | 15        | 33              | 7        | 75   | 1986    | Rosy Rustic                  |              |
| 0  | 0              | 0           | 0                       | 0            | 0        | 0         | 0          | 0         | 0               | —        | —    | 1985    | <i>Bupalus piniaria</i>      |              |
| 0  | 0              | 0           | 0                       | 0            | 0        | 0         | 0          | 0         | 0               | 0        | 0    | 1986    | Bordered White               |              |
| 23 | 1              | 0           | 1                       | 0            | 8        | 0         | 0          | 0         | 0               | —        | —    | 1985    | <i>Panolis flammea</i>       |              |
| 18 | 0              | 0           | 1                       | 0            | 3        | 0         | 0          | 0         | 0               | 0        | 0    | 1986    | Pine Beauty                  |              |
| 5  | 1              | 0           | 0                       | 66           | 6        | 0         | 12         | 0         | 0               | —        | —    | 1985    | <i>Cerapteryx graminis</i>   |              |
| 8  | 0              | 0           | 0                       | 52           | 3        | 0         | 12         | 0         | 0               | 0        | 0    | 1986    | Antler Moth                  |              |
| 0  | 0              | 56          | 0                       | 8            | 8        | 1         | 0          | 0         | 0               | —        | —    | 1985    | <i>Agriopis aurantiaria</i>  |              |
| 0  | 1              | 37          | 0                       | 21           | 14       | 0         | 0          | 0         | 0               | —        | 0    | 1986    | Scarce Umber                 |              |
| 2  | 3              | 10          | 0                       | 74           | 3        | 1         | 0          | 0         | 0               | —        | —    | 1985    | <i>Operophtera fagata</i>    |              |
| 0  | 6              | 54          | 0                       | 77           | 4        | 0         | 0          | 0         | 0               | —        | 0    | 1986    | Northern Winter Moth         |              |
| 2  | 0              | 0           | 1                       | 0            | 0        | 0         | 0          | 0         | 0               | —        | —    | 1985    | <i>Apamea sordens</i>        |              |
| 0  | 0              | 4           | 3                       | 0            | 0        | 0         | 0          | 12        | 0               | 0        | 6    | 1986    | Rustic Shoulder-knot         |              |
| 2  | 0              | 1           | 0                       | 2            | 1        | 0         | 0          | 2         | 0               | —        | —    | 1985    | <i>Gortyna flavago</i>       |              |
| 5  | 0              | 5           | 0                       | 4            | 1        | 0         | 2          | 3         | 0               | 0        | 2    | 1986    | Frosted Orange               |              |
| 1  | 2              | 0           | 3                       | 0            | 0        | 1         | 0          | 0         | 0               | —        | —    | 1985    | <i>Mamestra brassicae</i>    |              |
| 4  | 0              | 0           | 33                      | 0            | 0        | 0         | 1          | 0         | 0               | 0        | 1    | 1986    | Cabbage Moth                 |              |
| 1  | 13             | 18          | 4                       | 18           | 4        | 6         | 14         | 8         | 0               | —        | —    | 1985    | <i>Noctua pronuba</i>        |              |
| 1  | 13             | 17          | 5                       | 99           | 23       | 1         | 0          | 19        | 4               | 9        | 19   | 1986    | Large Yellow Underwing       |              |
| 1  | 3              | 0           | 0                       | 14           | 0        | 1         | 4          | 13        | 0               | —        | —    | 1985    | <i>Lacanobia oleracea</i>    |              |
| 6  | 0              | 0           | 1                       | 29           | 0        | 3         | 2          | 18        | 0               | 6        | 2    | 1986    | Bright-line Brown-eye        |              |
| 0  | 0              | 0           | 0                       | 0            | 0        | 0         | 0          | 3         | 0               | —        | —    | 1985    | <i>Euxoa nigricans</i>       |              |
| 0  | 0              | 0           | 1                       | 0            | 0        | 0         | 0          | 0         | 0               | 0        | 0    | 1986    | Garden Dart                  |              |
| 4  | 71             | 8           | 21                      | 19           | 18       | 22        | 41         | 39        | 23              | —        | —    | 1985    | <i>Mesapamea secalis</i>     |              |
| 3  | 38             | 24          | 16                      | 18           | 3        | 17        | 32         | 31        | 11              | 8        | 18   | 1986    | Common Rustic                |              |
| 78 | 2              | 1           | 2                       | 0            | 0        | 2         | 18         | 1         | 0               | —        | —    | 1985    | <i>Melanchra persicariae</i> |              |
| 24 | 6              | 1           | 7                       | 0            | 1        | 1         | 12         | 4         | 1               | 0        | 3    | 1986    | Dot Moth                     |              |
| 54 | 12             | 170         | 0                       | 146          | 42       | 4         | 1          | 3         | 2               | —        | —    | 1985    | <i>Operophtera brumata</i>   |              |
| 20 | 5              | 185         | 0                       | 211          | 22       | 1         | 4          | 8         | 2               | —        | 2    | 1986    | Winter Moth                  |              |

## ROTHAMSTED REPORT FOR 1987, PART 2

TABLE

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

| Pest Species                                       | Year | Rhandirmwyn<br>346 | Eaton Bray<br>412 | Woodstock<br>182 | Rothamsted (Barnfield)<br>1 | Rothamsted (Allotments)<br>34 | Rothamsted (Geescroft I)<br>22 | Rothamsted (Geescroft II)<br>99 | Writtle<br>87 | Westonbirt<br>292 | Hurley<br>180 | Cardiff<br>347 | Sheppey<br>370 |
|----------------------------------------------------|------|--------------------|-------------------|------------------|-----------------------------|-------------------------------|--------------------------------|---------------------------------|---------------|-------------------|---------------|----------------|----------------|
| <i>Hydraecia micacea</i><br>Rosy Rustic            | 1985 | 4                  | 6                 | —                | 8                           | 17                            | 3                              | 1                               | 0             | 3                 | 1             | 1              | 1              |
|                                                    | 1986 | 2                  | 4                 | 0                | 20                          | 19                            | 1                              | 3                               | 0             | 6                 | 10            | 0              | 1              |
| <i>Bupalus piniaria</i><br>Bordered White          | 1985 | 0                  | 0                 | —                | 0                           | 0                             | 0                              | 0                               | 0             | 0                 | 0             | 0              | 0              |
|                                                    | 1986 | 2                  | 0                 | 0                | 0                           | 0                             | 0                              | 0                               | 0             | 0                 | 0             | 0              | 0              |
| <i>Panolis flammea</i><br>Pine Beauty              | 1985 | 0                  | 0                 | —                | 0                           | 0                             | 0                              | 0                               | 0             | 1                 | 0             | 0              | 0              |
|                                                    | 1986 | 0                  | 0                 | 0                | 0                           | 0                             | 0                              | 0                               | 0             | 0                 | 0             | 0              | 0              |
| <i>Cerapteryx graminis</i><br>Antler Moth          | 1985 | 10                 | 0                 | —                | 0                           | 0                             | 0                              | 0                               | 0             | 0                 | 0             | 0              | 2              |
|                                                    | 1986 | 10                 | 0                 | 0                | 0                           | 0                             | 0                              | 0                               | 0             | 0                 | 0             | 0              | 0              |
| <i>Agriopis aurantiaria</i><br>Scarce Umber        | 1985 | 13                 | 0                 | —                | 0                           | 0                             | 17                             | 4                               | 0             | 9                 | 1             | 0              | 0              |
|                                                    | 1986 | 11                 | 3                 | 0                | 0                           | 0                             | 15                             | 4                               | 0             | 5                 | 0             | 0              | 0              |
| <i>Operophtera fagata</i><br>Northern Winter Moth  | 1985 | 1                  | 0                 | —                | 0                           | 0                             | 0                              | 1                               | 0             | 9                 | 1             | 0              | 0              |
|                                                    | 1986 | 3                  | 0                 | 0                | 0                           | 0                             | 0                              | 0                               | 0             | 5                 | 5             | 0              | 0              |
| <i>Apamea sordens</i><br>Rustic Shoulder-knot      | 1985 | 0                  | 0                 | —                | 2                           | 1                             | 1                              | 0                               | 1             | 0                 | 0             | 1              | 1              |
|                                                    | 1986 | 0                  | 3                 | 0                | 7                           | 2                             | 0                              | 1                               | 0             | 0                 | 0             | 3              | 0              |
| <i>Gortyna flavago</i><br>Frosted Orange           | 1985 | 2                  | 2                 | —                | 0                           | 0                             | 1                              | 2                               | 2             | 0                 | 0             | 0              | 0              |
|                                                    | 1986 | 0                  | 8                 | 0                | 1                           | 0                             | 1                              | 2                               | 4             | 2                 | 2             | 0              | 0              |
| <i>Mamestra brassicae</i><br>Cabbage Moth          | 1985 | 1                  | 1                 | —                | 0                           | 0                             | 1                              | 0                               | 2             | 0                 | 0             | 0              | 3              |
|                                                    | 1986 | 0                  | 0                 | 0                | 0                           | 0                             | 0                              | 0                               | 18            | 0                 | 1             | 1              | 5              |
| <i>Noctua pronuba</i><br>Large Yellow Underwing    | 1985 | 8                  | 4                 | —                | 17                          | 5                             | 147                            | 73                              | 27            | 27                | 6             | 22             | 22             |
|                                                    | 1986 | 21                 | 9                 | 18               | 23                          | 10                            | 265                            | 63                              | 20            | 45                | 9             | 20             | 20             |
| <i>Lacanobia oleracea</i><br>Bright-line Brown-eye | 1985 | 9                  | 9                 | —                | 6                           | 0                             | 2                              | 2                               | 33            | 0                 | 1             | 3              | 17             |
|                                                    | 1986 | 15                 | 8                 | 0                | 36                          | 0                             | 3                              | 5                               | 23            | 0                 | 0             | 6              | 21             |
| <i>Euxoa nigricans</i><br>Garden Dart              | 1985 | 0                  | 0                 | —                | 0                           | 1                             | 1                              | 0                               | 0             | 1                 | 0             | 0              | 0              |
|                                                    | 1986 | 0                  | 0                 | 0                | 0                           | 0                             | 1                              | 0                               | 0             | 0                 | 1             | 0              | 0              |
| <i>Mesapamea secalis</i><br>Common Rustic          | 1985 | 0                  | 23                | —                | 140                         | 18                            | 50                             | 68                              | 77            | 43                | 47            | 14             | 18             |
|                                                    | 1986 | 4                  | 24                | 0                | 103                         | 14                            | 76                             | 91                              | 85            | 28                | 48            | 17             | 36             |
| <i>Melanchra persicariae</i><br>Dot Moth           | 1985 | 3                  | 4                 | —                | 0                           | 0                             | 1                              | 1                               | 12            | 0                 | 0             | 0              | 0              |
|                                                    | 1986 | 3                  | 5                 | 0                | 2                           | 0                             | 2                              | 0                               | 0             | 0                 | 0             | 0              | 4              |
| <i>Operophtera brumata</i><br>Winter Moth          | 1985 | 187                | 8                 | —                | 6                           | 0                             | 127                            | 84                              | 0             | 39                | 3             | 2              | 0              |
|                                                    | 1986 | 93                 | 4                 | 2                | 11                          | 0                             | 139                            | 98                              | 0             | 22                | 1             | 2              | 1              |

## ROTHAMSTED INSECT SURVEY

2(c)

of moths of economic, or other importance for 1985 and 1986

|    | Wisley | Perry Woods | Alice Holt | Haslemere | Winchester | Lydd | Denny Lodge | Yarner Wood | Rosewarne | Isles of Scilly | Guernsey | Jersey | Year | Pest Species                 |
|----|--------|-------------|------------|-----------|------------|------|-------------|-------------|-----------|-----------------|----------|--------|------|------------------------------|
|    | 289    | 451         | 46         | 219       | 379        | 462  | 368         | 266         | 114       | 450             | 252      | 146    |      |                              |
| 1  | 17     | 0           | 0          | 7         | —          | 2    | 6           | 0           | —         | 3               | —        |        | 1985 | <i>Hydraecia micacea</i>     |
| 4  | 24     | 5           | 0          | 3         | 3          | 3    | 7           | 2           | 26        | 1               | 1        |        | 1986 | Rosy Rustic                  |
| 0  | 0      | 0           | 0          | 0         | 0          | —    | 0           | 0           | 0         | —               | 0        | —      | 1985 | <i>Bupalus piniaria</i>      |
| 2  | 0      | 1           | 0          | 0         | 0          | 0    | 0           | 0           | 1         | 0               | 0        | 0      | 1986 | Bordered white               |
| 1  | 0      | 7           | 0          | 0         | —          | 2    | 3           | 2           | —         | 0               | —        |        | 1985 | <i>Panolis flammea</i>       |
| 0  | 0      | 0           | 0          | 0         | 1          | 0    | 0           | 0           | 2         | 0               | 0        | 0      | 1986 | Pine Beauty                  |
| 2  | 0      | 2           | 0          | 0         | —          | 0    | 4           | 0           | —         | 0               | —        |        | 1985 | <i>Cerapteryx graminis</i>   |
| 0  | 0      | 3           | 0          | 0         | 27         | 0    | 4           | 0           | 0         | 0               | 0        | 0      | 1986 | Antler Moth                  |
| 4  | 0      | 2           | 0          | 0         | —          | 5    | 9           | 0           | —         | 0               | —        |        | 1985 | <i>Agriopsis aurantiaria</i> |
| 1  | 1      | 2           | 1          | 0         | 0          | 2    | 4           | 0           | 0         | 0               | 0        | 0      | 1986 | Scarce Umber                 |
| 2  | 0      | 1           | 0          | 0         | —          | 6    | 2           | 0           | —         | 0               | —        |        | 1985 | <i>Operophtera fagata</i>    |
| 1  | 1      | 0           | 0          | 0         | 0          | 4    | 2           | 0           | 0         | 0               | 0        | 0      | 1986 | Northern Winter Moth         |
| 1  | 1      | 0           | 0          | 4         | —          | 0    | 0           | 2           | —         | 0               | —        |        | 1985 | <i>Apamea sordens</i>        |
| 0  | 0      | 0           | 0          | 1         | 2          | 0    | 0           | 2           | 0         | 0               | 0        | 0      | 1986 | Rustic Shoulder-knot         |
| 0  | 0      | 0           | 0          | 0         | —          | 0    | 5           | 0           | —         | 0               | —        |        | 1985 | <i>Gortyna flavago</i>       |
| 1  | 0      | 0           | 0          | 0         | 0          | 0    | 8           | 1           | 0         | 0               | 0        | 0      | 1986 | Frosted Orange               |
| 9  | 1      | 0           | 1          | 2         | —          | 8    | 0           | 7           | —         | 2               | —        |        | 1985 | <i>Mamestra brassicae</i>    |
| 16 | 3      | 0           | 1          | 1         | 0          | 6    | 0           | 6           | 4         | 1               | 5        |        | 1986 | Cabbage Moth                 |
| 9  | 15     | 7           | 12         | 24        | —          | 5    | 28          | 6           | —         | 10              | —        |        | 1985 | <i>Noctua pronuba</i>        |
| 23 | 5      | 7           | 27         | 46        | 3          | 4    | 17          | 4           | 41        | 5               | 0        |        | 1986 | Large Yellow Underwing       |
| 0  | 25     | 1           | 10         | 10        | —          | 4    | 33          | 15          | —         | 8               | —        |        | 1985 | <i>Lacanobia oleracea</i>    |
| 2  | 7      | 2           | 11         | 7         | 6          | 3    | 17          | 13          | 59        | 2               | 2        |        | 1986 | Bright-line Brown-eye        |
| 0  | 0      | 0           | 0          | 0         | —          | 0    | 0           | 0           | —         | 0               | —        |        | 1985 | <i>Euxoa nigricans</i>       |
| 0  | 0      | 0           | 0          | 0         | 0          | 0    | 0           | 0           | 0         | 0               | 0        |        | 1986 | Garden Dart                  |
| 24 | 13     | 8           | 25         | 79        | —          | 5    | 47          | 209         | —         | 10              | —        |        | 1985 | <i>Mesapamea secalis</i>     |
| 19 | 9      | 7           | 20         | 66        | 21         | 4    | 7           | 53          | 62        | 8               | 5        |        | 1986 | Common Rustic                |
| 6  | 10     | 0           | 2          | 0         | —          | 0    | 0           | 6           | —         | 0               | —        |        | 1985 | <i>Melanchra persicariae</i> |
| 3  | 4      | 0           | 3          | 1         | 2          | 0    | 0           | 1           | 1         | 0               | 0        |        | 1986 | Dot Moth                     |
| 15 | 0      | 11          | 3          | 0         | —          | 7    | 46          | 2           | —         | 0               | —        |        | 1985 | <i>Operophtera brumata</i>   |
| 21 | 0      | 4           | 5          | 0         | 2          | 7    | 45          | 0           | 0         | 0               | 0        |        | 1986 | Winter Moth                  |

## ROTHAMSTED REPORT FOR 1987, PART 2

TABLE

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

| Pest Species                  | Year | 352<br>Inverpolly | 456<br>Laig | 349<br>Harris | 398<br>Cromarty | 457<br>Newton, Elgin | 350<br>Beinn Eighe | 49<br>Fort Augustus | 48<br>Kindrogan | 47<br>Dundee | 97<br>Rowardennan | 261<br>East Craigs | 446<br>Brodick |
|-------------------------------|------|-------------------|-------------|---------------|-----------------|----------------------|--------------------|---------------------|-----------------|--------------|-------------------|--------------------|----------------|
| <i>Abraxas grossulariata</i>  | 1985 | —                 | 0           | 46            | 0               | 0                    | 181                | 0                   | 0               | 0            | 0                 | 0                  | 0              |
| Magpie Moth                   | 1986 | 14                | 0           | 25            | 0               | 0                    | 5                  | 0                   | 0               | 1            | 0                 | 0                  | 0              |
| <i>Agrotis segetum</i>        | 1985 | —                 | 0           | 0             | 0               | 4                    | 0                  | 0                   | 0               | 1            | 0                 | 0                  | 0              |
| Turnip Moth                   | 1986 | 0                 | 0           | 0             | 0               | 0                    | 0                  | 0                   | 0               | 0            | 0                 | 0                  | 0              |
| <i>Erannis defoliaria</i>     | 1985 | —                 | 0           | 0             | 9               | 3                    | 0                  | 1                   | 5               | 0            | 200               | 0                  | 11             |
| Mottled Umber                 | 1986 | 1                 | 0           | 0             | 5               | 1                    | 0                  | 2                   | 4               | 1            | 629               | 0                  | 12             |
| <i>Phlogophora meticulosa</i> | 1985 | —                 | 0           | 0             | 1               | 0                    | 0                  | 0                   | 0               | 0            | 0                 | 0                  | 2              |
| Angle Shades                  | 1986 | 0                 | 0           | 0             | 0               | 0                    | 0                  | 0                   | 0               | 0            | 0                 | 0                  | 0              |
| <i>Alsophila aescularia</i>   | 1985 | —                 | 0           | 0             | 53              | 14                   | 0                  | 6                   | 0               | 1            | 25                | 0                  | 1              |
| March Moth                    | 1986 | 0                 | 0           | 0             | 43              | 3                    | 0                  | 3                   | 0               | 2            | 11                | 0                  | 0              |
| <i>Hepialus humuli</i>        | 1985 | —                 | 0           | 0             | 0               | 1                    | 0                  | 0                   | 0               | 0            | 2                 | 1                  | 0              |
| Ghost Swift                   | 1986 | 0                 | 0           | 0             | 0               | 0                    | 0                  | 0                   | 0               | 0            | 1                 | 0                  | 0              |
| <i>Hepialus lupulinus</i>     | 1985 | —                 | 0           | 0             | 0               | 0                    | 0                  | 0                   | 0               | 0            | 1                 | 1                  | 0              |
| Common Swift                  | 1986 | 0                 | 0           | 0             | 0               | 0                    | 0                  | 0                   | 0               | 0            | 3                 | 0                  | 0              |
| <i>Agrotis ipsilon</i>        | 1985 | —                 | 0           | 0             | 0               | 0                    | 0                  | 0                   | 0               | 0            | 0                 | 0                  | 0              |
| Dark Sword-grass              | 1986 | 0                 | 0           | 0             | 0               | 0                    | 0                  | 0                   | 0               | 0            | 0                 | 0                  | 1              |
| <i>Euproctis chrysorrhoea</i> | 1985 | —                 | 0           | 0             | 0               | 0                    | 0                  | 0                   | 0               | 0            | 0                 | 0                  | 0              |
| Brown-tail                    | 1986 | 0                 | 0           | 0             | 0               | 0                    | 0                  | 0                   | 0               | 0            | 0                 | 0                  | 0              |
| <i>Agrotis exclamationis</i>  | 1985 | —                 | 0           | 0             | 7               | 29                   | 0                  | 11                  | 22              | 15           | 1                 | 70                 | 25             |
| Heart and Dart                | 1986 | 0                 | 0           | 0             | 1               | 1                    | 0                  | 0                   | 0               | 5            | 0                 | 9                  | 0              |
| <i>Autographa gamma</i>       | 1985 | —                 | 0           | 0             | 7               | 0                    | 0                  | 0                   | 0               | 0            | 0                 | 0                  | 10             |
| Silver Y                      | 1986 | 3                 | 0           | 0             | 18              | 2                    | 7                  | 1                   | 0               | 0            | 3                 | 1                  | 7              |
| <i>Spodoptera exigua</i>      | 1985 | —                 | 0           | 0             | 0               | 0                    | 0                  | 0                   | 0               | 0            | 0                 | 0                  | 0              |
| Small Mottled Willow          | 1986 | 0                 | 0           | 0             | 0               | 0                    | 0                  | 0                   | 0               | 0            | 0                 | 0                  | 0              |
| <i>Orthonama obstipata</i>    | 1985 | —                 | 0           | 0             | 0               | 0                    | 0                  | 0                   | 0               | 0            | 0                 | 0                  | 0              |
| The Gem                       | 1986 | 0                 | 0           | 0             | 0               | 0                    | 0                  | 0                   | 0               | 0            | 0                 | 0                  | 0              |
| <i>Nomophila noctuella</i>    | 1985 | —                 | 0           | 0             | 0               | 0                    | 0                  | 0                   | 0               | 0            | 0                 | 0                  | —              |
| Rush Veneer Pearl             | 1986 | 0                 | 0           | 0             | 0               | 0                    | 0                  | 0                   | 0               | 0            | 0                 | 0                  | —              |
| <i>Plutella xylostella</i>    | 1985 | —                 | 0           | 0             | 0               | 2                    | 0                  | 0                   | 0               | 2            | 0                 | 2                  | —              |
| Diamond-back Moth             | 1986 | 0                 | 2           | 20            | 0               | 11                   | 0                  | 0                   | 1               | 0            | 0                 | 15                 | —              |
| <i>Udea ferrugalis</i>        | 1985 | —                 | 0           | 0             | 0               | 0                    | 0                  | 0                   | 0               | 0            | 0                 | 0                  | —              |
| Rusty-dot Pearl               | 1986 | 0                 | 0           | 0             | 0               | 0                    | 0                  | 0                   | 0               | 0            | 0                 | 0                  | —              |

## ROTHAMSTED INSECT SURVEY

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of moths of economic, or other importance for 1985 and 1986

|     | Auchincruive | Embleton | Culzean Castle | Kielder | Mabie | Stocksfield | Chester-le-Street | Forest-in-Teesdale | Windermere | Wykeham | Arnside | Baldersby | Harrogate | Year | Pest Species                  |
|-----|--------------|----------|----------------|---------|-------|-------------|-------------------|--------------------|------------|---------|---------|-----------|-----------|------|-------------------------------|
|     | 293          | 464      | 264            | 296     | 454   | 362         | 39                | 416                | 313        | 187     | 453     | 315       | 410       |      |                               |
| 0   | —            | 1        | 0              | 0       | 0     | —           | 4                 | 0                  | 0          | 2       | 5       | 3         | 1         | 1985 | <i>Abraxas grossulariata</i>  |
| 0   | 7            | 0        | 0              | 0       | 0     | 0           | 3                 | 0                  | 0          | 0       | 2       | 4         | 0         | 1986 | Magpie Moth                   |
| 2   | —            | 0        | 0              | 0       | 0     | —           | 0                 | 0                  | 0          | 5       | 0       | 9         | 0         | 1985 | <i>Agrotis segetum</i>        |
| 1   | 0            | 0        | 0              | 0       | 0     | 0           | 0                 | 0                  | 0          | 1       | 0       | 1         | 0         | 1986 | Turnip Moth                   |
| 0   | —            | 2        | 2              | —       | —     | —           | 0                 | 0                  | 3          | 9       | 2       | 1         | 4         | 1985 | <i>Erannis defoliaria</i>     |
| 0   | 2            | 0        | 4              | 2       | 10    | 1           | 0                 | 5                  | 14         | 7       | 1       | 1         | 7         | 1986 | Mottled Umber                 |
| 0   | —            | 1        | 1              | 2       | —     | —           | 1                 | 0                  | 10         | 2       | 5       | 5         | 1         | 1985 | <i>Phlogophora meticulosa</i> |
| 0   | 5            | 0        | 0              | 0       | 0     | 0           | 0                 | 2                  | 5          | 1       | 13      | 2         | 1         | 1986 | Angle Shades                  |
| 0   | —            | 2        | 0              | —       | —     | —           | 3                 | 0                  | 0          | 20      | —       | —         | 19        | 1985 | <i>Alsophila aescularia</i>   |
| 0   | 1            | 2        | 0              | —       | 1     | 2           | 0                 | 0                  | 1          | 8       | 0       | 2         | 3         | 1986 | March Moth                    |
| 0   | —            | 0        | 5              | 0       | —     | 1           | 2                 | 0                  | 0          | 0       | 3       | 0         | 1         | 1985 | <i>Hepialus humuli</i>        |
| 0   | 0            | 0        | 0              | 1       | 1     | 0           | 0                 | 0                  | 0          | 1       | 1       | 1         | 1         | 1986 | Ghost Swift                   |
| 3   | —            | 0        | 0              | 1       | —     | 0           | 0                 | 0                  | 0          | 0       | 3       | 2         | 79        | 1985 | <i>Hepialus lupulinus</i>     |
| 1   | 5            | 0        | 0              | 0       | 0     | 0           | 0                 | 0                  | 0          | 0       | 0       | 0         | 35        | 1986 | Common Swift                  |
| 0   | —            | 0        | 0              | 0       | —     | 0           | 0                 | 0                  | 0          | 0       | 0       | 0         | 0         | 1985 | <i>Agrotis ipsilon</i>        |
| 0   | 1            | 0        | 0              | 0       | 0     | 0           | 0                 | 0                  | 1          | 1       | 0       | 0         | 1         | 1986 | Dark Sword-grass              |
| 0   | —            | 0        | 0              | 0       | —     | 0           | 0                 | 0                  | 0          | 0       | 0       | 0         | 0         | 1985 | <i>Euproctis chrysorrhoea</i> |
| 0   | 0            | 0        | 0              | 0       | 0     | 0           | 0                 | 0                  | 0          | 0       | 0       | 0         | 0         | 1986 | Brown-tail                    |
| 56  | —            | 38       | 3              | 440     | —     | 73          | 2                 | 284                | 86         | 127     | 481     | 130       |           | 1985 | <i>Agrotis exclamationis</i>  |
| 1   | 45           | 6        | 2              | 22      | 7     | 10          | 0                 | 12                 | 14         | 21      | 24      | 16        |           | 1986 | Heart and Dart                |
| 0   | —            | 3        | 3              | 4       | —     | 39          | 0                 | 0                  | 6          | 28      | 44      | 5         |           | 1985 | <i>Autographa gamma</i>       |
| 0   | 40           | 6        | 3              | 11      | 1     | 57          | 4                 | 1                  | 3          | 64      | 65      | 5         |           | 1986 | Silver Y                      |
| 0   | —            | 0        | 0              | 0       | —     | 0           | 0                 | 0                  | 0          | 0       | 0       | 0         | 0         | 1985 | <i>Spodoptera exigua</i>      |
| 0   | 0            | 0        | 0              | 0       | 0     | 0           | 0                 | 0                  | 0          | 0       | 0       | 0         | 0         | 1986 | Small Mottled Willow          |
| 0   | —            | 0        | 0              | 0       | —     | 0           | 0                 | 0                  | 0          | 0       | 0       | 0         | 0         | 1985 | <i>Orthonama obstipata</i>    |
| 0   | 0            | 0        | 0              | 0       | 0     | 0           | 0                 | 0                  | 0          | 0       | 0       | 0         | 0         | 1986 | The Gem                       |
| 0   | —            | 0        | 1              | 0       | —     | 0           | 0                 | 0                  | 0          | 0       | 0       | 0         | —         | 1985 | <i>Nomophila noctuella</i>    |
| 0   | —            | 0        | 0              | 0       | 0     | 0           | 0                 | —                  | 0          | 0       | 0       | 0         | —         | 1986 | Rush Veneer Pearl             |
| 0   | —            | 0        | 1              | 6       | —     | 0           | 0                 | 0                  | 3          | 0       | 1       | —         |           | 1985 | <i>Plutella xylostella</i>    |
| 154 | —            | 0        | 1              | 111     | 0     | 6           | 0                 | —                  | 11         | 0       | 8       | —         |           | 1986 | Diamond-back Moth             |
| 0   | —            | 0        | 0              | 0       | —     | 0           | 0                 | 0                  | 0          | 0       | 0       | —         |           | 1985 | <i>Udea ferrugalis</i>        |
| 0   | —            | 0        | 0              | 0       | 0     | 0           | 0                 | —                  | 0          | 0       | 0       | —         |           | 1986 | Rusty-dot Pearl               |

## ROTHAMSTED REPORT FOR 1987, PART 2

TABLE

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

| Pest Species                  | Year | 465<br>Shadwell | 131<br>Spurn Head | 35<br>Bangor | 337<br>Jodrell Bank | 439<br>Sherwood Forest | 223<br>Gibraltar Point | 274<br>Wells-next-the-Sea | 168<br>Sutton Bonington | 381<br>Terrington | 382<br>Preston Montford | 280<br>Empingham | 424<br>Compton Park |
|-------------------------------|------|-----------------|-------------------|--------------|---------------------|------------------------|------------------------|---------------------------|-------------------------|-------------------|-------------------------|------------------|---------------------|
| <i>Abraxas grossulariata</i>  | 1985 | —               | 0                 | 0            | 0                   | 0                      | 0                      | 0                         | 1                       | 0                 | 0                       | 12               | 0                   |
| Magpie Moth                   | 1986 | 0               | 0                 | 0            | 0                   | 1                      | 0                      | 13                        | 1                       | 0                 | 4                       | 8                | 0                   |
| <i>Agrotis segetum</i>        | 1985 | —               | 6                 | 0            | 0                   | 8                      | 0                      | 0                         | 5                       | 0                 | 0                       | 1                | 0                   |
| Turnip Moth                   | 1986 | 0               | 3                 | 0            | 0                   | 0                      | 0                      | 0                         | 0                       | 0                 | 0                       | 0                | 0                   |
| <i>Erannis defoliaria</i>     | 1985 | —               | 0                 | 0            | 31                  | 15                     | 0                      | 0                         | 4                       | 0                 | 7                       | 1                | 0                   |
| Mottled Umber                 | 1986 | 4               | 0                 | 0            | 73                  | 27                     | —                      | 0                         | 2                       | 0                 | 11                      | 0                | —                   |
| <i>Phlogophora meticulosa</i> | 1985 | —               | 25                | 2            | 0                   | 15                     | 8                      | 0                         | 12                      | 14                | 25                      | 9                | 7                   |
| Angle Shades                  | 1986 | 4               | 8                 | 4            | 0                   | 5                      | 0                      | 3                         | 1                       | 48                | 3                       | 4                | 0                   |
| <i>Alsophila aescularia</i>   | 1985 | —               | 0                 | 0            | 27                  | 22                     | 14                     | 1                         | 7                       | 1                 | 8                       | 1                | 2                   |
| March Moth                    | 1986 | 3               | 0                 | 0            | 7                   | 22                     | 8                      | 1                         | 12                      | 1                 | 6                       | 0                | 1                   |
| <i>Hepialus humuli</i>        | 1985 | —               | 0                 | 0            | 2                   | 0                      | 0                      | 0                         | 1                       | 0                 | 0                       | 0                | 2                   |
| Ghost Swift                   | 1986 | 0               | 0                 | 0            | 0                   | 0                      | 0                      | 0                         | 2                       | 1                 | 0                       | 1                | 0                   |
| <i>Hepialus lupulinus</i>     | 1985 | —               | 19                | 0            | 1                   | 0                      | 9                      | 4                         | 26                      | 24                | 18                      | 58               | 8                   |
| Common Swift                  | 1986 | 7               | 12                | 0            | 6                   | 1                      | 2                      | 4                         | 23                      | 16                | 3                       | 23               | 1                   |
| <i>Agrotis ipsilon</i>        | 1985 | —               | 0                 | 0            | 0                   | 0                      | 0                      | 0                         | 0                       | 0                 | 0                       | 0                | 0                   |
| Dark Sword-grass              | 1986 | 0               | 1                 | 0            | 0                   | 0                      | 2                      | 0                         | 0                       | 0                 | 0                       | 0                | 0                   |
| <i>Euproctis chrysorrhoea</i> | 1985 | —               | 0                 | 0            | 0                   | 0                      | 0                      | 0                         | 0                       | 0                 | 0                       | 0                | 0                   |
| Brown-tail                    | 1986 | 0               | 0                 | 0            | 0                   | 0                      | 0                      | 0                         | 0                       | 0                 | 0                       | 0                | 0                   |
| <i>Agrotis exclamationis</i>  | 1985 | —               | 80                | 16           | 245                 | 19                     | 80                     | 6                         | 212                     | 18                | 292                     | 95               | 94                  |
| Heart and Dart                | 1986 | 1               | 24                | 9            | 20                  | 4                      | 43                     | 4                         | 100                     | 11                | 49                      | 19               | 56                  |
| <i>Autographa gamma</i>       | 1985 | —               | 36                | 3            | 9                   | 10                     | 27                     | 0                         | 5                       | 4                 | 2                       | 40               | 16                  |
| Silver Y                      | 1986 | 5               | 49                | 1            | 12                  | 33                     | 13                     | 3                         | 4                       | 5                 | 6                       | 29               | 22                  |
| <i>Spodoptera exigua</i>      | 1985 | —               | 0                 | 0            | 0                   | 0                      | 0                      | 0                         | 0                       | 0                 | 0                       | 0                | 0                   |
| Small Mottled Willow          | 1986 | 0               | 0                 | 0            | 0                   | 0                      | 0                      | 0                         | 0                       | 0                 | 0                       | 0                | 0                   |
| <i>Orthonama obstipata</i>    | 1985 | —               | 0                 | 0            | 0                   | 0                      | 0                      | 0                         | 0                       | 0                 | 0                       | 0                | 0                   |
| The Gem                       | 1986 | 0               | 0                 | 0            | 0                   | 0                      | 0                      | 0                         | 0                       | 0                 | 0                       | 0                | 0                   |
| <i>Nomophila noctuella</i>    | 1985 | —               | 0                 | 0            | 0                   | 0                      | 0                      | 0                         | 0                       | —                 | 1                       | 0                | 0                   |
| Rush Veneer Pearl             | 1986 | 0               | 0                 | 0            | 0                   | —                      | 0                      | 0                         | 0                       | 0                 | 0                       | 0                | 0                   |
| <i>Plutella xylostella</i>    | 1985 | —               | 0                 | 0            | 0                   | 0                      | 0                      | 0                         | 0                       | —                 | 11                      | 4                | 0                   |
| Diamond-back Moth             | 1986 | 0               | 6                 | 10           | 0                   | —                      | 0                      | 0                         | 1                       | 6                 | 30                      | 7                | 1                   |
| <i>Udea ferrugalis</i>        | 1985 | —               | 0                 | 0            | 0                   | 0                      | 0                      | 0                         | 0                       | —                 | 0                       | 0                | 0                   |
| Rusty-dot Pearl               | 1986 | 0               | 0                 | 0            | 0                   | —                      | 0                      | 0                         | 0                       | 0                 | 0                       | 0                | 0                   |

## ROTHAMSTED INSECT SURVEY

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of moths of economic, or other importance for 1985 and 1986

|    | Santon Downham | Aberystwyth | Monks Wood (Ewingswode) | Broom's Barn | Tregaron | Llysdinam | Luddington | Aberporth | Cockayne Hatley | Hereford | Cork | Evesham | Year | Pest Species                  |
|----|----------------|-------------|-------------------------|--------------|----------|-----------|------------|-----------|-----------------|----------|------|---------|------|-------------------------------|
|    | 259            | 340         | 277                     | 88           | 331      | 111       | 463        | 440       | 336             | 212      | 459  | 444     |      |                               |
| 0  | 10             | 175         | 1                       | 10           | 2        | 0         | 5          | 3         | 18              | —        | —    | —       | 1985 | <i>Abraxas grossulariata</i>  |
| 0  | 6              | 144         | 0                       | 4            | 4        | 1         | 6          | 4         | 13              | 46       | 4    | 4       | 1986 | Magpie Moth                   |
| 1  | 0              | 4           | 4                       | 0            | 0        | 7         | 0          | 6         | 0               | —        | —    | —       | 1985 | <i>Agrotis segetum</i>        |
| 0  | 0              | 0           | 4                       | 0            | 0        | 0         | 0          | 5         | 0               | 0        | 1    | 1       | 1986 | Turnip Moth                   |
| 11 | 3              | 102         | 0                       | 102          | 18       | 4         | 1          | 0         | 2               | —        | —    | —       | 1985 | <i>Erannis defoliaria</i>     |
| 5  | 4              | 769         | 0                       | 343          | 50       | 0         | 1          | 1         | 4               | —        | —    | 2       | 1986 | Mottled Umber                 |
| 10 | 1              | 14          | 13                      | 11           | 5        | 8         | 4          | 6         | 21              | —        | —    | —       | 1985 | <i>Phlogophora meticulosa</i> |
| 7  | 0              | 11          | 50                      | 6            | 5        | 1         | 1          | 3         | 2               | 2        | 8    | 8       | 1986 | Angle Shades                  |
| 18 | 4              | 91          | 6                       | 73           | 24       | 2         | 4          | 10        | 4               | —        | —    | —       | 1985 | <i>Alsophila aescularia</i>   |
| 6  | 5              | 388         | 4                       | 98           | 13       | 2         | 1          | 4         | 9               | 5        | 1    | 1       | 1986 | March Moth                    |
| 1  | 0              | 0           | 0                       | 0            | 2        | 0         | 4          | 1         | 0               | —        | —    | —       | 1985 | <i>Hepialus humuli</i>        |
| 2  | 0              | 0           | 0                       | 0            | 0        | 0         | 1          | 0         | 0               | 0        | 0    | 0       | 1986 | Ghost Swift                   |
| 3  | 0              | 61          | 16                      | 0            | 1        | 2         | 6          | 5         | 0               | —        | —    | —       | 1985 | <i>Hepialus lupulinus</i>     |
| 1  | 5              | 28          | 4                       | 1            | 0        | 0         | 4          | 9         | 0               | 3        | 10   | 10      | 1986 | Common Swift                  |
| 0  | 0              | 0           | 0                       | 0            | 0        | 0         | 0          | 0         | 0               | —        | —    | —       | 1985 | <i>Agrotis ipsilon</i>        |
| 0  | 0              | 0           | 1                       | 2            | 1        | 0         | 2          | 0         | 0               | 0        | 0    | 0       | 1986 | Dark Sword-grass              |
| 0  | 0              | 0           | 0                       | 0            | 0        | 0         | 0          | 0         | 0               | —        | —    | —       | 1985 | <i>Euproctis chrysorrhoea</i> |
| 0  | 0              | 0           | 0                       | 0            | 0        | 0         | 0          | 0         | 0               | 0        | 0    | 0       | 1986 | Brown-tail                    |
| 12 | 277            | 20          | 29                      | 699          | 319      | 87        | 1806       | 46        | 130             | —        | —    | —       | 1985 | <i>Agrotis exclamationis</i>  |
| 9  | 67             | 11          | 26                      | 190          | 5        | 21        | 60         | 26        | 19              | 5        | 33   | 33      | 1986 | Heart and Dart                |
| 30 | 15             | 18          | 5                       | 35           | 24       | 0         | 17         | 16        | 1               | —        | —    | —       | 1985 | <i>Autographa gamma</i>       |
| 14 | 17             | 17          | 13                      | 18           | 15       | 2         | 12         | 25        | 7               | 23       | 9    | 9       | 1986 | Silver Y                      |
| 0  | 0              | 0           | 0                       | 0            | 0        | 0         | 0          | 0         | 0               | —        | —    | —       | 1985 | <i>Spodoptera exigua</i>      |
| 0  | 0              | 0           | 0                       | 0            | 0        | 0         | 0          | 0         | 0               | 0        | 0    | 0       | 1986 | Small Mottled Willow          |
| 0  | 0              | 0           | 0                       | 0            | 0        | 0         | 0          | 0         | 0               | —        | —    | —       | 1985 | <i>Orthonama obstipata</i>    |
| 0  | 0              | 0           | 0                       | 1            | 0        | 0         | 0          | 0         | 0               | 0        | 0    | 0       | 1986 | The Gem                       |
| 0  | —              | 0           | 0                       | —            | —        | 0         | —          | 0         | 0               | —        | —    | —       | 1985 | <i>Nomophila noctuella</i>    |
| 0  | —              | 0           | 0                       | —            | —        | 0         | —          | 0         | —               | 1        | —    | —       | 1986 | Rush Veneer Pearl             |
| 0  | —              | 0           | 23                      | —            | —        | 3         | —          | 24        | 79              | —        | —    | —       | 1985 | <i>Plutella xylostella</i>    |
| 9  | —              | 0           | 179                     | —            | —        | 19        | —          | 716       | —               | 4        | —    | —       | 1986 | Diamond-back Moth             |
| 0  | —              | 0           | 0                       | —            | —        | 0         | —          | 0         | 0               | —        | —    | —       | 1985 | <i>Udea ferrugalis</i>        |
| 0  | —              | 0           | 0                       | —            | —        | 0         | —          | 0         | —               | 11       | —    | —       | 1986 | Rusty-dot Pearl               |

## ROTHAMSTED REPORT FOR 1987, PART 2

TABLE

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

| Pest Species                                     | Year | Rhandirmwyn<br>346 | Eaton Bray<br>412 | Woodstock<br>182 | Rothamsted (Barnfield)<br>1 | Rothamsted (Allotments)<br>34 | Rothamsted (Geescroft I)<br>22 | Rothamsted (Geescroft II)<br>99 | Writtle<br>87 | Westonbirt<br>292 | Hurley<br>180 | Cardiff<br>347 | Sheppey<br>370 | Wisley<br>289 |
|--------------------------------------------------|------|--------------------|-------------------|------------------|-----------------------------|-------------------------------|--------------------------------|---------------------------------|---------------|-------------------|---------------|----------------|----------------|---------------|
| <i>Abraxas grossulariata</i><br>Magpie Moth      | 1985 | 2                  | 67                | —                | 3                           | 0                             | 28                             | 27                              | 7             | 1                 | 0             | 0              | 1              | 0             |
|                                                  | 1986 | 0                  | 109               | 42               | 2                           | 1                             | 30                             | 24                              | 3             | 1                 | 1             | 2              | 4              | 0             |
| <i>Agrotis segetum</i><br>Turnip Moth            | 1985 | 1                  | 3                 | —                | 2                           | 0                             | 3                              | 5                               | 0             | 0                 | 0             | 0              | 0              | 4             |
|                                                  | 1986 | 0                  | 0                 | 0                | 3                           | 0                             | 0                              | 0                               | 3             | 0                 | 0             | 0              | 0              | 1             |
| <i>Erannis defoliaria</i><br>Mottled Umber       | 1985 | 46                 | 1                 | —                | 0                           | 0                             | 64                             | 15                              | 0             | 42                | 0             | 0              | 0              | 14            |
|                                                  | 1986 | 96                 | 2                 | 3                | 0                           | 0                             | 87                             | 39                              | 1             | 27                | 8             | 0              | 0              | 23            |
| <i>Phlogophora meticulosa</i><br>Angle Shades    | 1985 | 13                 | 2                 | —                | 15                          | 0                             | 20                             | 19                              | 6             | 13                | 2             | 2              | 3              | 4             |
|                                                  | 1986 | 5                  | 10                | 8                | 2                           | 0                             | 0                              | 0                               | 6             | 4                 | 0             | 2              | 10             | 3             |
| <i>Alsophila aescularia</i><br>March Moth        | 1985 | 7                  | 6                 | —                | 3                           | 0                             | 24                             | 22                              | 17            | 8                 | 2             | 0              | 0              | 13            |
|                                                  | 1986 | 8                  | 8                 | 4                | 1                           | 1                             | 31                             | 31                              | 1             | 6                 | 4             | 1              | 0              | 11            |
| <i>Hepialus humuli</i><br>Ghost Swift            | 1985 | 0                  | 2                 | —                | 0                           | 0                             | 1                              | 0                               | 0             | 1                 | 0             | 0              | 0              | 1             |
|                                                  | 1986 | 0                  | 0                 | 0                | 2                           | 0                             | 1                              | 0                               | 0             | 0                 | 0             | 0              | 1              | 0             |
| <i>Hepialus lupulinus</i><br>Common Swift        | 1985 | 0                  | 90                | —                | 74                          | 10                            | 12                             | 30                              | 38            | 30                | 104           | 24             | 11             | 5             |
|                                                  | 1986 | 1                  | 5                 | 0                | 49                          | 7                             | 7                              | 10                              | 10            | 5                 | 21            | 6              | 9              | 4             |
| <i>Agrotis ipsilon</i><br>Dark Sword-grass       | 1985 | 0                  | 0                 | —                | 0                           | 0                             | 0                              | 0                               | 0             | 0                 | 0             | 0              | 0              | 0             |
|                                                  | 1986 | 0                  | 0                 | 0                | 0                           | 0                             | 0                              | 0                               | 2             | 1                 | 0             | 0              | 0              | 0             |
| <i>Euproctis chrysorrhoea</i><br>Brown-tail      | 1985 | 0                  | 0                 | —                | 0                           | 0                             | 0                              | 0                               | 4             | 0                 | 0             | 0              | 11             | 0             |
|                                                  | 1986 | 0                  | 0                 | 0                | 0                           | 0                             | 0                              | 0                               | 1             | 0                 | 0             | 0              | 9              | 0             |
| <i>Agrotis exclamationis</i><br>Heart and Dart   | 1985 | 133                | 91                | —                | 90                          | 21                            | 39                             | 20                              | 108           | 97                | 18            | 13             | 22             | 29            |
|                                                  | 1986 | 14                 | 29                | 22               | 53                          | 19                            | 24                             | 6                               | 49            | 10                | 33            | 5              | 23             | 7             |
| <i>Autographa gamma</i><br>Silver Y              | 1985 | 60                 | 10                | —                | 14                          | 7                             | 13                             | 14                              | 19            | 34                | 0             | 45             | 37             | 29            |
|                                                  | 1986 | 50                 | 1                 | 39               | 17                          | 2                             | 18                             | 21                              | 37            | 16                | 1             | 20             | 41             | 10            |
| <i>Spodoptera exigua</i><br>Small Mottled Willow | 1985 | 0                  | 0                 | —                | 0                           | 0                             | 0                              | 0                               | 0             | 0                 | 0             | 0              | 0              | 0             |
|                                                  | 1986 | 0                  | 0                 | 0                | 0                           | 0                             | 0                              | 0                               | 0             | 0                 | 0             | 0              | 0              | 0             |
| <i>Orthonama obstipata</i><br>The Gem            | 1985 | 0                  | 0                 | —                | 0                           | 0                             | 0                              | 0                               | 0             | 0                 | 0             | 0              | 0              | 0             |
|                                                  | 1986 | 0                  | 0                 | 0                | 0                           | 0                             | 0                              | 0                               | 0             | 0                 | 0             | 0              | 0              | 0             |
| <i>Nomophila noctuella</i><br>Rush Veneer Pearl  | 1985 | 0                  | 0                 | —                | 0                           | 1                             | 0                              | 1                               | 0             | 0                 | 1             | 0              | 0              | 1             |
|                                                  | 1986 | 0                  | 0                 | 0                | 0                           | 0                             | 0                              | 0                               | 1             | 0                 | —             | 0              | 0              | 0             |
| <i>Plutella xylostella</i><br>Diamond-back Moth  | 1985 | 1                  | 0                 | —                | 23                          | 46                            | 0                              | 0                               | 0             | 0                 | 1             | 8              | 59             | 50            |
|                                                  | 1986 | 11                 | 0                 | 0                | 215                         | 172                           | 3                              | 2                               | 0             | 0                 | —             | 29             | 222            | 238           |
| <i>Udea ferrugalis</i><br>Rusty-dot Pearl        | 1985 | 0                  | 0                 | —                | 0                           | 0                             | 0                              | 0                               | 0             | 0                 | 0             | 0              | 0              | 4             |
|                                                  | 1986 | 5                  | 0                 | 0                | 1                           | 0                             | 0                              | 0                               | 0             | 0                 | —             | 0              | 0              | 1             |

## ROTHAMSTED INSECT SURVEY

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of moths of economic, or other importance for 1985 and 1986

|  | Perry Woods | Alice Holt | Haslemere | Winchester | Lydd | Denny Lodge | Yarner Wood | Rosewarne | Isles of Scilly | Guernsey | Jersey | Year | Pest Species                  |
|--|-------------|------------|-----------|------------|------|-------------|-------------|-----------|-----------------|----------|--------|------|-------------------------------|
|  | 451         | 46         | 219       | 379        | 462  | 368         | 266         | 114       | 450             | 252      | 146    |      |                               |
|  | 3           | 0          | 0         | 19         | —    | 0           | 3           | 4         | —               | 7        | —      | 1985 | <i>Abraxas grossulariata</i>  |
|  | 2           | 0          | 0         | 13         | 5    | 0           | 4           | 18        | 2               | 16       | 1      | 1986 | Magpie Moth                   |
|  | 4           | 2          | 2         | 2          | —    | 0           | 0           | 1         | —               | 4        | —      | 1985 | <i>Agrotis segetum</i>        |
|  | 1           | 0          | 0         | 0          | 0    | 0           | 1           | 5         | 0               | 1        | 0      | 1986 | Turnip Moth                   |
|  | 0           | 7          | 2         | 0          | —    | 32          | 25          | 0         | —               | 0        | —      | 1985 | <i>Erannis defoliaria</i>     |
|  | 4           | 6          | 4         | 0          | 0    | 23          | 11          | 0         | 0               | 0        | 0      | 1986 | Mottled Umber                 |
|  | 17          | 3          | 2         | 2          | —    | 0           | 18          | 3         | —               | 0        | —      | 1985 | <i>Phlogophora meticulosa</i> |
|  | 4           | 3          | 0         | 6          | 0    | 1           | 17          | 8         | 7               | 3        | 2      | 1986 | Angle Shades                  |
|  | —           | 8          | 4         | 0          | —    | 0           | 24          | 3         | —               | 0        | —      | 1985 | <i>Alsophila aescularia</i>   |
|  | 1           | 5          | 0         | 0          | 0    | 2           | 29          | 0         | 0               | 0        | 0      | 1986 | March Moth                    |
|  | 2           | 1          | 0         | 1          | —    | 0           | 1           | 2         | —               | 0        | —      | 1985 | <i>Hepialus humuli</i>        |
|  | 2           | 3          | 0         | 2          | 0    | 0           | 0           | 0         | 0               | 0        | 0      | 1986 | Ghost Swift                   |
|  | 136         | 7          | 0         | 32         | —    | 1           | 0           | 3         | —               | 0        | —      | 1985 | <i>Hepialus lupulinus</i>     |
|  | 66          | 0          | 0         | 12         | 24   | 2           | 0           | 1         | 0               | 0        | 0      | 1986 | Common Swift                  |
|  | 0           | 0          | 0         | 0          | —    | 0           | 1           | 1         | —               | 0        | —      | 1985 | <i>Agrotis ipsilon</i>        |
|  | 0           | 0          | 0         | 0          | 0    | 0           | 0           | 0         | 0               | 0        | 0      | 1986 | Dark Sword-grass              |
|  | 0           | 1          | 0         | 5          | —    | 3           | 0           | 0         | —               | 5        | —      | 1985 | <i>Euproctis chrysorrhoea</i> |
|  | 1           | 0          | 0         | 0          | 10   | 0           | 0           | 0         | 0               | 1        | 2      | 1986 | Brown-tail                    |
|  | 30          | 27         | 61        | 60         | —    | 13          | 277         | 789       | —               | 33       | —      | 1985 | <i>Agrotis exclamationis</i>  |
|  | 28          | 14         | 11        | 25         | 35   | 7           | 13          | 59        | 40              | 11       | 12     | 1986 | Heart and Dart                |
|  | 23          | 15         | 10        | 11         | —    | 3           | 32          | 28        | —               | 3        | —      | 1985 | <i>Autographa gamma</i>       |
|  | 6           | 10         | 4         | 12         | 10   | 1           | 68          | 22        | 9               | 20       | 14     | 1986 | Silver Y                      |
|  | 0           | 0          | 0         | 0          | —    | 0           | 0           | 0         | —               | 0        | —      | 1985 | <i>Spodoptera exigua</i>      |
|  | 0           | 0          | 0         | 0          | 0    | 0           | 0           | 0         | 0               | 0        | 0      | 1986 | Small Mottled Willow          |
|  | 0           | 0          | 0         | 0          | —    | 0           | 1           | 0         | —               | 0        | —      | 1985 | <i>Orthonama obstipata</i>    |
|  | 0           | 0          | 0         | 0          | 0    | 0           | 0           | 0         | 0               | 0        | 0      | 1986 | The Gem                       |
|  | 1           | 1          | 0         | 0          | —    | —           | —           | 17        | —               | 1        | —      | 1985 | <i>Nomophila noctuella</i>    |
|  | 0           | 0          | 0         | 1          | 0    | —           | —           | 5         | 0               | 0        | 0      | 1986 | Rush Veneer Pearl             |
|  | 22          | 16         | 2         | 0          | —    | —           | —           | 68        | —               | 18       | —      | 1985 | <i>Plutella xylostella</i>    |
|  | 92          | 71         | 26        | 0          | 71   | —           | —           | 469       | 0               | 61       | 198    | 1986 | Diamond-back Moth             |
|  | 1           | 0          | 0         | 0          | —    | —           | —           | 0         | —               | 2        | —      | 1985 | <i>Udea ferrugalis</i>        |
|  | 0           | 0          | 0         | 0          | 0    | —           | —           | 9         | 0               | 1        | 2      | 1986 | Rusty-dot Pearl               |