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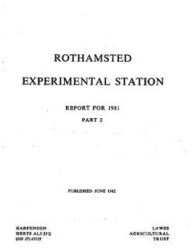


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# Synoptic Monitoring for Migrant Insect Pests in Great Britain and Western Europe III. The Seasonal Distribution of Pest Aphids and the Annual Aphid Aerofauna over Great Britain 1975–80

L. R. TAYLOR, I. P. WOIWOD, G. M. TATCHELL, MAUREEN J. DUPUCH and JOAN NICKLEN

**Abstract**

To facilitate the recognition of alate aphid pest species and potential virus vectors in random samples of airborne migrants, the total aerial samples for all species between 1975 and 1980 are tabulated at 18 continuously operated sampling stations. Annual means for the geographical distributions of up to three seasonal cycles of migration of 27 species of alate aphids, including agricultural and forest pests, are mapped to verify annual life cycles and provide a basis for forecasting distribution.

## Introduction

Since 1964, flying aphids have been monitored systematically at an increasing number of sites throughout Great Britain as part of an investigation into aerial populations of insects with special reference to agricultural and other pest species. An ultimate objective is to develop a forecasting system and a preliminary requisite is to establish the general level of the aerofauna in order to detect changes in populations prior to epidemics.

The sampling network has subsequently extended into Holland, Denmark, Northern Ireland, France and Belgium. This has made possible the comparison of the pest species and the total species present in the aphid aerofauna separated by ecological barriers of differing extent, such as the mountains of Wales and Scotland, the Northern Channel of the Irish Sea, the English Channel and especially the North Sea.

All the aphid species found in aerial samples from the 31 trap sites that have operated in Great Britain over a period of 16 years have been identified, the records collated, and the list of 317 species published in Part I of this paper (Taylor, French, Woiwod, Dupuch & Nicklen, 1981). For comparison, the species sampled near Copenhagen, in Denmark, between 1971 and 1976 have also been compiled and published in Part II of this paper (Heie, Philipsen & Taylor, 1981).

Not all pest aphids are well known and under constant observation. For example, increased damage to cereals over the last few decades has directed attention to some grass aphids previously ignored. It is not yet clear how much damage is done directly or by virus disease, nor which aphids are responsible in different regions and countries. Some potential vector species are rarely found on crops because they do not remain there long enough to build up populations and the chance of finding a visiting migrant during the brief moments of routine crop inspection is remote (Taylor, 1974). Nevertheless such aphids may feed long enough to transmit virus. Only by sampling and identifying all aphids in flight between crops can potential vectors be recognised because species not commonly associated with the crop concerned, or even with agricultural crops in general, may be unsuspected vectors.

Furthermore, a knowledge of the population dynamics of each pest is necessary to assess the risk of crop damage by infesting populations before they are controlled naturally by physical and biological means. Population dynamics theory is also needed to



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estimate the likely effects of treatment at a given place and time, and to assess its economic and environmental costs, such as the potential for developing insecticide resistance. Traditional approaches to population dynamics that focus on the stabilising properties balancing births and deaths in isolated elements of populations are not applicable to aphids, except possibly to a few monophagous tree-feeding species with atypical life cycles. For most aphid species, and for all those pests of annual crops, there are no persistent populations to stabilise, and hence no continuity that would make key factor or life-table analysis relevant (Gilbert, 1982). Populations of most pest aphid species become extinct on a given host two or three times each year, when they die or migrate to another host plant, often of different family, form and distribution. There, the aphid morphs, and their behaviour and dynamics, also differ. In addition, the rapid clonal multiplication of aphids leads to the successive domination of differing eco-types within the species, especially in pest species which respond to the selection pressure of changing cultivars and cropping rotations, by changes in host preference, reproductive rates and migration times (Daniels, 1981).

The geographical pattern of productivity of migrants arises from the success of the preceding cycle of apterous population growth. These distinct distributions which differ numerically, geographically and morphologically, must be known in order to predict the next population cycle.

Whatever sampling method is employed, pest-assessment requires a continuous and automatically updated concept of synoptic distribution, modified by changes in host-plant distribution throughout the seasonal cycle, by climate and biological controlling agents. This cannot be done on a local scale because aphids frequently infest crops hundreds of kilometres from their overwintering sites, and many of their parasitic organisms and predators are equally mobile. The system needs to be able to detect deficiencies in prognosis and to suggest solutions when mistakes are discovered. The historical component of changes, and the many ecological factors involved, usually require decades of continuous recording before such defects are discovered.

With such a synoptic view of populations, local deviations and field-scale factors begin to be measurable. Changes in the rate of population growth in different parts of the geographical range of each species, and on different crop hosts, can be more easily detected and analysed by comparison with changes in other areas.

Virus infection is difficult to forecast from crop samples because the range of vector aphids may be wide and unknown. Aerial samples detect the range of species necessary to recognise which vectors were responsible for infection after it has been observed. Forecasting may then depend on adequate subsampling for vector individuals (Plumb, 1981) of a wide range of species even for one virus (van Harten, 1981). Aerial sampling yields comparable population estimates for different places, crops and pest species. Results show the great variability in times and distribution of migration between different years and different places. They also show how the pattern of migration progresses over large areas, where major concentrations occur, and where the current risk is greatest (Bardner, French and Dupuch, 1981).

## The numbers and distribution of aphids

This paper presents a list of all species that occurred in any of 18 major sample sites in Great Britain, Nos. 916, 907, 912, 923, 906, 905, 922, 919, 911, 904, 917, 901, 924, 914, 908, 903, 913, 910 (sites are listed and mapped in Fig. 1,* that operated between 1975 and 1980. Those 72 species that occurred five or less times are listed (Table 1, *see* pp. 36–38)

* Figs. 1–16 are in Pt I (Taylor *et al.*, *Rothamsted Experimental Station. Report for 1980*, Part 2,41–104). Figs. 17–35 are in Pt III (this paper), pp. 102–121.



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with the site, year and sample number. Those 186 species that occurred more frequently are fully tabulated (Table 2, *see* pp. 39–101) to show their changing migrant population with time and regional distribution. Some species are explosive in their annual productivity. *Aploneura lentisci* (530), for example, occurred in modest numbers, mainly in the south, in 1975. Samples increased to thousands in 1976 and the population expanded to cover the island of Great Britain. In 1977 the species had almost disappeared, diminishing further during 1978 and 1979, and disappearing altogether in 1980. In contrast *Schizolachnus pineti* (4) occurred in small numbers almost everywhere in 1975 and 1976, disappeared in 1977, reappeared in the midlands in 1978 and 1979 and reached its maximum numbers in 1980. The pest species are discussed in more detail below.

The 6-year mean geographical distributions (1975–80) for each of the migratory cycles of 27 species of special concern are mapped in Figs. 17–35 based on 18 sample sites. The number of maps presented for each species is based on the known life-history, the size of the samples and the seasonal cycle of migration in Figs. 3–9.

The basic life-histories and interpretation of the species are listed below in the same sequence as the maps. This sequence is determined partly by convenience in figure arrangement and partly to illustrate relevant features of distribution pattern.

The number of maps for a given species is based on what was already known about its ecology, or what has been found from the aerial samples. In the classical cycle of arable crop pests in temperate maritime climates, there are three seasonal cycles of migration; spring emigration of migrants from the overwintering woody hosts, if the species is holocyclic, to the developing crop; summer migration of alienicolae from the ripening crop to other herbaceous secondary hosts; autumn return migration of sexuparae from the secondary hosts to the primary overwintering hosts. This pattern is typified by *Aphis fabae* and is clearly recognisable in many species by the phenology of migration which shows three cycles, and in the maps which reflect the different distribution of the three hosts. This pattern is also recognisable in anholocyclic populations when the crop host generates a disproportionately large and geographically concentrated summer emigration. The autumn return migration is often diffuse, reflecting the widely distributed and wide host-species range of polyphagous alienicolae. The spring migration then shows how the species distribution has become concentrated by the restricted primary host range of holocyclic species and the success in overwintering survival of anholocyclic species.

When the holocyclic species remain longer, into the late spring, on the primary host and develop larger populations, the secondary host population may also grow slowly and the summer migration may then be late enough to form the sexuparous return migration. When, as in *Phorodon humuli*, the secondary host range is also botanically and geographically restricted, the resulting two migrations are clearly recognisable.

Monophagous tree aphids, like *Elatobium abietinum*, may have only one clear-cut migratory cycle.

All three classes of migration include species with less precise migratory mechanisms so that there are species with indeterminate systems not yet understood. This is evident from the maps, taken in conjunction with the phenologies shown in Figs. 3–9. In interpreting these figures, it is relevant that there are no samples from the north-west of Scotland, so the maps there are distorted. Also, the maps are based on sample means over several years, so that annual variation in timing or population distribution tends to smooth the pattern. Individual years often show greater differences between seasonal migration distributions than appears from these means.

**132, *Aphis fabae* Scopoli, 1763 (Black Bean Aphid)** (Figs. 8a and 17) is holocyclic in Britain, overwintering in the egg stage mainly on spindle, *Euonymus europaeus*, in the



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southern half of Britain; small numbers occur on the guelder rose, *Viburnum opulus* and possibly *Philadelphus*. Eggs hatch between late February and early April and alatae are produced in May; these migrate in late May and early June to field beans and sugar beet, on which large colonies may develop causing direct feeding damage, and also to wild plants such as dock, poppies, goosefoot and fat-hen. Alatae are produced on these secondary hosts in response to crowding which reinfest the same crop or migrate to other crops and wild plants. This summer migration is particularly noticeable in East Anglia and represents the migration from field beans and sugar beet. In the autumn *A. fabae* migrates back to *E. europaeus* where eggs are laid.

A reliable forecast of the likelihood of infestations of *A. fabae* causing damage to field beans is based on large-scale sampling of winter host plants. Suction-trap samples can also forecast infestation of bean crops (Way, Cammell, Taylor & Woiwod, 1981). It should be possible to expand this forecast to indicate the initial infestation of sugar beet and forecast direct damage. *A. fabae* is also an important pest of sugar beet because it spreads beet yellows virus and beet mosaic virus after its introduction to the crop. It is a known vector of more than 30 viruses.

The *Aphis* spp. are difficult to separate quickly, especially the males, and *fabae* grp. (132) includes several other possible species that are known to be so rare as not seriously to affect the samples. The taxonomy of this group of species is still uncertain.

The three classical migration cycles show clearly in the maps. The summer migration, mainly from agricultural crops is dominant in East Anglia and eastern Scotland. The subsequent autumn migration from wild herbaceous annuals is more diffuse, whilst the following spring migration, mainly from *Euonymus*, is concentrated near to the southern chalk downs.

**389, *Acyrthosiphon pisum* (Harris, 1776) (Pea Aphid)** (Figs. 7c and 18) is holocyclic or anholocyclic in Britain and is autoecious on legumes, overwintering as an egg low on the haulm of sainfoin, trefoil and lucerne or, in mild winters, active stages may survive. Eggs hatch in February and March, and alatae, produced in May, migrate to the growing points of peas, on which this aphid is a pest, and other legumes. Numbers reach a peak on peas in late June and early July shortly before peak numbers are found in the trap samples in the pea growing areas of the south-east and East Anglia. The trap samples also indicate a small autumn migration, probably of sexuparae; sexuales have been found on *Ononis*, *Lathyrus*, *Trifolium* and *Medicago*. *A. pisum* is a vector of more than 30 plant viruses, both persistent and non-persistent, including pea enation mosaic, pea leaf roll and bean leaf roll.

Whether or not damaging infestations of *A. pisum* occur on peas is partly dependent on the initial infestation of the crop. This is likely to be associated with the numbers migrating in the spring and early summer, whereas the species' success on peas can be measured by the numbers migrating from the crop in the summer. There is no known economic threshold for *A. pisum* on peas.

There are many different recognised races or biotypes, some differentiated by colour, and known to have different host preferences, reproductive rates and behaviour.

Although pea aphid has no systematic host-alternating migrations, the maps clearly show overwintering survival confined to the south and East Anglia; dominant summer populations in arable areas and totally diffuse, fairly small, autumn migration, not unlike bean aphid.

**322, *Myzus* (*S. Nectarosiphon*) *persicae* (Sulzer, 1776) (Peach/Potato Aphid)** (Figs. 7a and 19) is the most important pest and vector aphid in Britain due to its wide host range and its proficiency in transmitting more than 120 plant viruses. It is anholocyclic on many



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herbaceous plants and brassicas, but is also holocyclic on peach, *Prunus persica*, hence confined to small numbers in gardens in southern Britain. The survival of the anholocyclic population during the winter is particularly important in determining the timing and level of infestation of crops in the spring, and the subsequent spread of virus diseases. Alatae develop in spring and migrate to potatoes and sugar beet, as well as to other herbaceous plants. *M. persicae* does not usually form dense colonies, but tends to migrate by walking to infest other parts of the same and neighbouring plants. The anholocyclic life-cycle and the tendency to move between plants contribute greatly to the importance of this species as a vector of potato leaf-roll virus and potato virus Y, on seed potato crops, of beet yellows virus and beet mild yellowing virus on sugar beet, and a number of viruses on other crops. Numbers may sometimes increase rapidly to reach tens of thousands per plant on potato. Alatae develop during the second half of July and migrate to other crops or to wild herbaceous plants. This migration predominates in the eastern arable areas where there is the largest acreage of sugar beet and potatoes. There is a further redistribution of *M. persicae* in the autumn between herbaceous plants and brassicas, and it is on these plants that the aphids overwinter.

The spring weather at Rothamsted Experimental Station can be used to predict accurately the incidence of virus yellows in sugar beet throughout the country during the coming summer (Watson, Heathcote, Lauckner & Sowray, 1975). Analysis of the change in the distributions of the autumn and spring migrations suggest that *M. persicae* overwinters most successfully in the south-east and the London basin and this may explain these Watson–Hurst virus-incidence equations (Taylor, 1977a).

Few *M. persicae* are found in the trap samples, but those that fly early in the year give an indication of potential virus infection of crops and should therefore be included in any virus index on potatoes (van Harten, 1981) or sugar beet. This aphid damages peach directly in the Mediterranean region and can also kill potatoes when uncontrolled or insecticide-resistant.

The timing of seasonal migration cycles of peach/potato aphid differ in the north and south, but the maps reflect a similar general pattern to bean aphid. Major summer emigrations are from arable crop areas. The autumn migration tends to be rather more westerly, but by the spring, the overwintering population has been greatly reduced in the north and west, with maximum survival in the south-east.

**358, *Hyperomyzus lactucae* (Linnaeus, 1758) (Current/Sowthistle Aphid)** (Figs. 6c and 20) is heteroecious and holocyclic, spending the winter as an egg on black currants and occasionally on red currants. Eggs hatch in March and early April and the subsequent generations may cause damage to currants. Including necrotic yellows on lettuce, this aphid is a known vector of about ten viruses. Few alatae develop in the second generation, but more in the third generation and these migrate in late May and June to sowthistle. The suction-trap samples suggest there may be further migration between secondary hosts from late June to the end of August. In autumn the return migration to *Ribes* reaches peak numbers in early October. The numbers migrating in the autumn may indicate likely damage to currants the following spring.

The migratory cycles in spring are not very clearly separated, but overwintering is mainly in southern Britain. The summer migration reflects the distribution of *Sonchus* and the autumn migration is slightly higher in the southern half of Great Britain. There is an appreciable increase in population in the south by the next spring.

**420, (*Macrosiphum*) *S. Sitobion avenae* (Fabricius, 1775) (Grain Aphid)** (Figs. 8c and 21) is autoecious and can be a serious pest on cereals, particularly on wheat. This species is usually anholocyclic in Britain, but a small proportion of the population overwinters



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holocyclically as eggs on Gramineae. Eggs hatch and alatae fly in May and June to reinfest the same crop or migrate to other Gramineae. Alatae produced throughout the summer, in response to increasing density and declining food quality, may reinfest crops or migrate to other Gramineae. The later migrants infest grasses, and it is from these that the small autumn migration arises which infests early-sown winter cereals as well as grasses. Those that infest cereals can introduce barley yellow dwarf virus, but also establish overwintering populations which can develop rapidly in the spring if conditions are favourable.

The suction-trap samples in the autumn and spring indicate the numbers of *S. avenae* infesting crops, but as damage occurs some time after this initial infestation, when aphids are emigrating from crops, the samples are not ideal for monitoring the development on crops. However, development models are being devised to predict the maximum population on wheat, which use the number of aphids in the trap samples as a starting point (Carter & Dewar, 1981). The monitoring of the autumn migration to cereals is becoming increasingly important as the trend towards planting winter cereals earlier results in a larger proportion of the acreage becoming infested in the autumn.

The spring migration is much greater in southern England, diminishing northwards. The vast summer migration has a concentration in Norfolk, but is widespread at very high densities throughout the lowlands; even the highlands of the south-western peninsula, Wales, northern England and Scotland have very great aerial populations. The autumn migration is modest and diffuse so that the population increases considerably in the south during winter.

**114, *Rhopalosiphum padi* (Linnaeus, 1758) (Bird-cherry Aphid)** (Figs. 9d and 22) is mainly holocyclic in northern Britain, but in the south it is also anholocyclic. Eggs laid on *Prunus padus* from September to November hatch the following April. Alatae begin to migrate in early May to Gramineae, including wheat, barley and oats, where large colonies may occasionally develop, and some other monocotyledons. Alatae also migrate from anholocyclic populations at this time. The summer migration is mainly from cereals to grasses, particularly in eastern Britain, but also between grasses in western Britain. The timing of the autumn migration to *P. padus* for the holocyclic population, and to early-sown cereals and grasses for the anholocyclic population, is dependent on day length. Those aphids that migrate to the ever-increasing acreage of early sown winter cereals, are often the primary source of infection for barley yellow dwarf virus. The survival of the anholocyclic population on cereals during the winter greatly affects the subsequent spread of BYDV.

Suction-trap samples in the autumn, combined with a measure of the proportion of aphids transmitting virus, are used to give an indication of the potential risk of BYDV infection in early-sown crops in different areas of Britain (Plumb, 1981). This aphid is a vector for at least seven viruses. Its aerial populations far exceed those of any other aphid species in Britain and, in common with only *Rhopalosiphum insertum* and the *Pemphigus* spp., its cycles of migration increase progressively through the year. The losses over winter are very great and survival is maximal in the extreme east and west, unlike most aphids.

**396, *Metopolophium dirhodum* (Walker, 1848) (Rose/Grain Aphid)** (Figs. 8b and 23) is heteroecious and holocyclic although it may overwinter anholocyclically. Eggs laid on wild and cultivated roses in October and November hatch in the spring. Alatae migrate to grasses, especially *Bromus* spp., and cereals, particularly wheat, where the population can build up to epidemic proportions (Dewar, Woiwod & Choppin de Janvry, 1980). Alatae are produced on cereals in response to increasing population density and reinfest



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the crops or migrate to other grasses. *M. dirhodum* is a poor vector of barley yellow dwarf virus, although it can spread the virus within fields, and of radish yellows.

The suction traps monitor the small migration from roses to cereals and so give an indication of the initial infestation. However, subsequent population development is dependent on a number of factors. The suction traps monitor the emigration from cereals and grasses of alatae produced in response to increasing density and declining food quality.

In common with many crop aphids, the summer migration is much the largest but it is atypical in its distribution, maximal in the north-west and south-east, reflecting its grass hosts as well as cereals. The autumn migration is also unusual being greater in the north. By spring the distribution has reversed, overwintering evidently being more successful in the south.

**111, *Rhopalosiphum insertum* (Walker, 1849) (Apple/Grass Aphid)** (Figs. 9c and 24) is heteroecious and holocyclic overwintering as an egg mainly on apple, but also on pears, rowan, medlar and hawthorn. Eggs hatch in April and the developing population on apple may cause some damage in exceptional years. Alatae migrate to grasses during May and June where they colonise the roots. There is a large summer migration during which other grasses are colonised. In the autumn there is a large migration back to apple. This species transmits barley yellow dwarf virus and may be responsible for some of the initial infection of early-sown cereal crops in the autumn. Autumn suction-trap samples have been related to the number of oviparae on apple in the autumn and so to damage the following spring (Taylor, 1977b; Light, 1980). These autumn samples can now be used to warn of potential damage to apples in the following spring.

The three well-marked seasonal migrations increase progressively in size and their distributions show no regional characteristics, except that the spring migration tends to diminish slightly towards the east and west coasts. Unusually there is hardly any latitudinal segregation, overwintering losses being generally distributed throughout the island.

**410, *Macrosiphum euphorbiae* (Thomas C. A., 1878) (Potato Aphid)** (Figs. 7d and 25) is polyphagous and anholocyclic in Britain and only on rare occasions do sexual forms lay eggs on Rosaceae. Apterae overwinter on many species of weeds. Alatae migrate in May and June to new hosts, including potatoes on which they are a pest. If infestations are heavy there may be a second dispersal migration in July. Infestations are usually widespread on potatoes, but only occasionally reach large numbers when it causes 'false top roll'. There is a small migration of *M. euphorbiae* in the autumn. The timing and size of infestation on potatoes in the spring and early summer is dependent on the overwintering survival of the anholocyclic population which would appear to be least successful in Scotland and northern England. *M. euphorbiae* is a poor vector of potato virus Y, but may be common enough to be included in a virus index for the probable infection of potato seed crops. It is a vector of more than 50 viruses, both persistent and non-persistent, including pea mosaic, onion yellow dwarf, beet mosaic and dock viruses. It is more highly polyphagous than most aphids, on monocotyledons as well as dicotyledons; it is of American origin, introduced to Europe about 1917.

The summer migration is the largest; both it and the smaller autumn migration are widespread over Great Britain. Only the spring migration is concentrated in the south where overwintering is apparently most successful.

**421, (*Macrosiphum*) *S. Sitobion fragariae* (Walker, 1848) (Blackberry/Grain Aphid)** (Figs. 7b and 26) is heteroecious and holocyclic, overwintering as an egg on blackberry. Eggs hatch in spring and alatae migrate to grasses in late spring and early summer. *S. fragariae* may be found on the ears of wheat, but is much less common than *S. avenae*. Alatae



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which are produced during the summer presumably migrate to other species of Gramineae.

The spring migration is mainly in the south-west and quite prominent. The summer migration is maximal in the midlands of England. The autumn return migration to blackberry is late and mainly in the south and west, but not so concentrated as in spring.

**355, *Nasonovia ribisnigri* (Mosley, O., 1841) (Currant/Lettuce Aphid)** (Figs. 6a and 27) may be a pest on both its primary and secondary host. In northern Britain it is normally holocyclic, overwintering as an egg on any part of gooseberries and currants, including the fallen leaves, but in the south this species can be anholocyclic on Compositae especially lettuce, on which it is the most important aphid pest, chicory, hawkweed and speedwell. Eggs hatch on the primary host in March and alatae that develop migrate, from mid-May to June, to lettuce where large colonies stunt growth and prevent hearting. Although the numbers in the trap samples are generally small, there is a suggestion of further redistribution of alatae during the summer, presumably between secondary hosts. There is a third migration in the autumn to the overwintering hosts which can be either gooseberries and currants or lettuce. As numbers in the trap samples are usually small, it may only be possible to give an indication of seasons in which either exceptionally large, or small, numbers are expected.

The three discernible migrations in this species are all diffuse and spread widely over Great Britain.

**243, *Brachycaudus helichrysi* (Kaltenbach, 1843) (Leaf-curling Plum Aphid)** (Figs. 5a and 28) is holocyclic. The primary hosts are various *Prunus* species, particularly plums and damson on which it can be a serious pest. Eggs hatch in February and March and alatae are produced in the latter half of May which migrate to a number of secondary hosts including clover, asters and chrysanthemums. The migration from *Prunus* is usually complete by early July. The return migration to *Prunus* begins in the latter half of August and continues until the end of October. It is the progeny of those aphids that successfully find *Prunus* in the autumn that develop into damaging infestations the following spring. It may therefore be possible to give an indication of the potential levels of infestation in the spring from the numbers of aphids migrating the previous autumn.

*B. helichrysi* is a vector of a number of virus diseases including plum pox and potato virus Y. Although a poor vector of PVY, *B. helichrysi* occurs in sufficiently large numbers to cause large infections of potato seed crops (Govier, pers. comm.) and has been included in an index assessing the potential risk to seed crops (van Harten, 1981).

Separate maps have been made for weeks 1–26 and 27–33, and these maps show a marked shift in distribution from south- and west-midland to east-midland England. They are not clearly segregated in time and the aphids ecology suggests they are both part of the primary migration. The smaller return migration is uniformly distributed over Great Britain, with no population growth in the north before spring because of the southerly distribution of the primary hosts.

**292, *Cavariella aegopodii* (Scopoli, 1763) (Willow/Carrot Aphid)** (Figs. 4a and 29) is heteroecious between willow species and various umbelliferous plants. Eggs laid on the young shoots of willow in the autumn hatch between February and early April. Alatae, developed in May, migrate over a 5- or 6-week period to umbellifers including carrots, parsnips, celery and parsley on which the aphid is a pest. In late seasons the migration from the primary host may be delayed by 2 or 3 weeks. As populations develop on carrot crops, the alatae produced migrate to hedgerow umbellifers. By the end of July few aphids can be found on carrots. In the autumn, sexuparae migrate back to willow where eggs are laid. An anholocyclic population also remains on overwintering umbellifers such as



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late lifted carrots and carrot seed crops. Spring alatae from anholocyclic populations migrate to umbelliferous crops earlier than those from willow. However, the proportions of the population overwintering holocyclically and anholocyclically are not known. *C. aegopodii* is a vector of persistent carrot motley dwarf virus and semi-persistent parsnip yellow fleck, and a number of non-persistent viruses.

The numbers migrating in the autumn may be reflected in the numbers migrating from willow the following spring. However, the spring migration from the umbellifers will depend on overwintering success. It is therefore important to know the proportions of the population that overwinter holocyclically and anholocyclically.

The primary migration is widespread throughout England and fairly heavy. The second map (weeks 27–37) may be secondary migrants, but is not yet clearly distinguished. The autumn return migration is uniformly distributed.

**308, *Phorodon humuli* (Schrank, 1801) (Damson/Hop Aphid)** (Figs. 5b and 30) is heteroecious and holocyclic, laying eggs in the autumn on blackthorn, *Prunus spinosa*, and damson and plum, *P. domestica*. Eggs hatch between late February and April, and the developing population on plums may cause some damage. The migration from *Prunus* to hops begins in late May and continues until late July or early August. Some aphids may remain on the sucker growth of plums throughout the summer. *P. humuli* is a pest of hops every year and therefore the timing of the migration to hops is probably of greater importance to growers than the size of the migration. The dates of the beginning and end of the migration can be obtained from the suction-trap samples. No alatae are produced on hops until gynoparae and males develop in the autumn and these migrate back to *Prunus*. This migration is concentrated in the two hop-growing regions of Britain (Taylor, Woiwod & Taylor, 1979). The size of the autumn migration may give an indication of potential damage to plums the following spring and the subsequent migration to hops.

Like *Brachycaudus helichrysi*, this species has two clearly segregated migrations, the first reflecting the overwintering *Prunus* host distribution. The profound difference in the distribution of their return migrations shows clearly the accumulative effect of intense cultivation of the primary and secondary hosts in close proximity. *P. humuli* transmits a number of plant viruses including plum pox and hop mosaic.

**264, *Brevicoryne brassicae* (Linnaeus, 1758) (Cabbage Aphid)** (Figs. 6b and 30) is autoecious on brassicas and produces sexual forms in the autumn. In the milder parts of the south and west the winter may be passed anholocyclically. The eggs laid on the stems of brassicas in the autumn hatch between the end of February and the end of April, and alatae are produced from the end of May to July which migrate to newly planted brassica crops such as cabbage, cauliflower, Brussels sprouts, kale, rape, radish, swedes and mustard. The aphids are heavily wax-coated. Dense colonies may develop on the leaves, or on the flower of seed crops, causing considerable damage, particularly in warm dry weather. Alatae, produced throughout the summer, infest other brassicas. In the autumn infestations in the heads of cabbage, cauliflower and Brussels sprouts reduce market value. *B. brassicae* is a vector of cauliflower mosaic virus and cabbage black ring spot as well as about 14 other plant viruses.

Few *B. brassicae* are found in the trap samples but the number recorded early in the year might indicate seasons of either exceptionally large or small infestations.

There is no pronounced seasonal segregation of migration in this species but the pattern of migration in weeks 1–34 suggests that agricultural practice is a major factor in perpetuating distribution.

**110, *Hyalopterus pruni* (Geoffroy, 1762) (Mealy Plum Aphid)** (Figs. 8d and 31) is hetero-



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ecious and holocyclic with eggs being laid on *Prunus* species, mainly plums, but also peaches, apricots and almonds. The eggs hatch in April, and the aphids developing on plums can cause serious damage curling the young leaves. Alatae of *H. pruni*, which develop later than those of other aphid pests of plums, migrate to waterside grasses and reeds from the beginning of June. The population on plums continues to increase until July, and the peak migration is observed between early July and mid-August. Some alatae migrating from plums may form new colonies on other plum trees. The return migration to *Prunus* begins in September. The small autumn migration may give an indication of the level of infestation on plums the following spring. *H. pruni* is a vector of plum pox.

The primary migration of this aphid is surprisingly easterly in its distribution in England, as compared with *Phorodon humuli* and *Brachycaudus helichrysi*, and requires further investigation.

**500, *Eriosoma* (*Schizoneura*) *ulmi* (Linnaeus, 1758) (Currant Root Aphid)** (Figs. 3c and 31) is heteroecious and holocyclic, overwintering as eggs on *Ulmus*. The eggs hatch in the spring and the fundatrices form galls on elm. Alatae migrate, after the beginning of June, to gooseberries where aphids may seriously check growth, and also to red and black currants. The alatae larviposit on the soil near the base of stems, and the larvae work their way through the soil to infest the roots. Alatae develop on gooseberry late in the autumn and migrate back to *Ulmus* where eggs are laid. The numbers of aphids migrating in the autumn and spring may indicate subsequent infestation of gooseberries.

The autumn migration reflects the distribution of soft fruit, but the decline of elm in the south seems to be reflected in the annual totals in the samples (Table 2cc) and may change the pattern progressively northward in the future.

**91, *Drepanosiphum platanoidis* (Schrank, 1801) (Sycamore Aphid)** (Figs. 3d and 32) is holocyclic and autoecious on sycamore, *Acer pseudoplatanus*. During the summer all adults are alate and active. There is a migration of the aphid in spring and early summer which is larger in the north of England and Scotland than in the south. This species is of no known agricultural importance. Much work has been done on the population dynamics of this species in the field and laboratory (Dixon, 1979). However, the distribution of the migrations in the two halves of the year differ more regionally than might be expected from what is known and suggest some overriding factor not yet evident.

**397, *Metopolophium festucae* (Theobald, 1917) (Fescue Aphid)** (Figs. 4b and 32) is autoecious on grasses, especially meadow grasses where the life cycle is anholocyclic except in the extreme north where it may be holocyclic. Alatae are produced from May to July which migrate to other grasses and cereals. This species may stunt winter oats if attacked early but is not usually a pest of cereals; heavy infestations may develop on grass seed crops particularly in the Midlands.

Distribution is widespread and undistinguished in either part of the year.

**112, *Rhopalosiphum maidis* (Fitch, 1856) (Cereal Leaf Aphid)** (Figs. 6d and 33) is anholocyclic feeding on leaf blades of grasses, and occasionally occurs on barley and maize in the summer in Britain. The trap samples indicate a small summer migration which may originate in cultivated cereals, particularly as it is concentrated in eastern Britain, but it occurs sporadically over the whole country.

**376, *Aulacorthum solani* (Kaltenbach, 1843) (Glasshouse/Potato Aphid)** (Figs. 4d and 33) is almost entirely anholocyclic in Britain occurring on a wide variety of plants particularly



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*Digitalis*. When sexual forms and eggs occur, they are found on many different plant species. It is a pest of potatoes but seldom occurs in sufficiently large numbers to cause direct feeding damage. However, it transmits more than 30 plant viruses including potato leaf roll and potato virus Y, though less efficiently than *Myzus persicae*.

The few *A. solani* found in trap samples probably give little indication of potential damage to potatoes. The overwintering survival and the time that aphids move to potatoes is of greater importance. The number of *A. solani* in trap samples together with their efficiency of transmission are incorporated in an index indicating potential risk of virus spread in potato seed crops (van Harten, 1981).

Its distribution is indeterminate.

**234, *Dysaphis* (*S. Pomaphis*) *plantaginea* (Passerini, 1860) (Rosy Apple Aphid)** (Figs. 5d and 34) is heteroecious and holocyclic spending the winter in the egg stage on apple, pear, hawthorn and *Sorbus* species. Eggs hatch from mid-March to early April, the subsequent aphid populations cause the most serious aphid damage to apples, severe leaf curling. Alatae on the primary host are produced in July which migrate mainly to plantain but also to umbellifers and docks. However, the suction-trap samples indicate that migration begins about a month earlier. Some aphids may remain on apples until August, or even for the whole year. The return migration to apple in the autumn begins at the end of August, but most are found in the trap samples in the last half of September and the first half of October. Trap samples in the autumn indicate the levels of infestation expected the following spring.

During both primary and return migration this species remains mainly in the southern half of the island.

**78, *Phyllaphis fagi* (Linnaeus, 1767) (Beech Aphid)** (Figs. 5c and 34) is autoecious on beech. There is a redistribution of alatae from May to July, and another migration in the autumn which comprises sexuparae.

The summer migration is consistently larger than the autumn migration. Distribution is quite uniform in the autumn migration.

**290, *Elatobium abietinum* (Walker, 1849) (Green Spruce Aphid)** (Figs. 3a and 35) is autoecious on *Picea* species, particularly *P. sitchensis* on which it is a pest. In Britain it is almost exclusively anholocyclic; sexual forms or eggs only having been recorded on rare occasions. Alatae develop during the spring and early summer in response to the changing nutritional status of the host plant. They migrate from late April to the end of July to other spruce trees where they aestivate until the plants are again in a favourable condition.

The duration of the migration increases from south to north and its median date is associated with temperature (Carter & Cole, 1977). The size of the migration, together with the severity of winter weather, indicates the levels of damage expected the following year. There is a pronounced longitudinal graduation in distribution, with a maximum in the west, in contrast to the arable aphids.

**318, *Myzus* (*S. Nectarosiphon*) *ascalonicus* Doncaster, 1946 (Shallot Aphid)** (Figs. 3b and 35) lives anholocyclically on a wide variety of host plants and it may be a pest on a number of crops including strawberries, onions, shallots, lettuce and cabbage. Little seems to be known of its biology but it develops large populations at low temperatures. It is often one of the first aphids found in trap samples in the spring when redistribution flights begin and continues to migrate until mid-July. There is also a small autumn migration. The distribution reflects that of arable crops.



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**315, *Myzus ornatus* Laing, 1932 (Violet Aphid)** (Figs. 9b and 35) is anholocyclic on a wide variety of plants. Alatae develop in the spring and migrate from May to July to potatoes and other plants. Large infestations may develop on old and damaged leaves of potatoes in late August and September. A few alatae may be produced on potatoes, but few are found in the suction-trap samples throughout the year. In the laboratory *M. ornatus* has been shown to transmit a number of plant viruses including sugar beet yellows and potato leaf roll.

Occurs mainly in the south.

**319, *Myzus* (*S. Nectarosiphon*) *certus* (Walker, 1849) (Violet/Dianthus Aphid)** (Figs. 4c and 35) is difficult to separate taxonomically from *M. persicae* and little is known of its life history. It is most likely to be found on chickweed and violets. Few are found in the suction-trap samples, but most are found between mid-May and the end of July, and mainly in the midlands and central southern England.

**1506, *Pemphigus* (*Prociphilines*) (Poplar-root Aphids)** (Fig. 9a) includes a number of species which are difficult to separate taxonomically, including *P. bursarius* which is a root pest of out-door lettuces, and *P. phenax* which is occasionally a pest of carrots. Eggs are laid on poplar in autumn and hatch in March and April when the buds break. The aphids form galls on poplar in which the alatae develop in June. *P. bursarius* migrates to lettuces in July where it infests the roots. Sexuparae, which develop at the end of August, migrate back to poplar in late summer and autumn. Some aphids spend the winter anholocyclically on the roots of lettuce or even in the soil where they will colonise lettuce planted in the same soil the following year. It is difficult to give information concerning a single *Pemphigus* species from the suction-trap samples until the proportion of each species in the sample is known.

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**TABLE 1**

*Annual total sample for aphid species that occurred five or less times at 12·2 m, at any of the 16 sites listed in Table 2 during 1975–80 (excluding sites 904 and 911)*

24 *Maculolachnus submacula* (Walker, 1848)
1978, 919 (2); 1979, 908 (1); 1980, 924 (1).

31 *Neotrama caudata* (Del Guercio, 1909)
1975, 901 (1).

33 *Trama rara* Mordvilko, 1908
1979, 923 (1).

48 *Chaitophorus tremulae* Koch, C. L., 1854
1976, 908 (1); 1977, 908 (1); 1979, 919 (1); 1980, 906 (2).

52 *Sipha kurdjumovi* Mordvilko, 1921
1976, 903 (2); 1980, 908 (2).

60 *Callaphis juglandis* (Goeze, 1778)
1978, 917 (1).

61 *Chromaphis juglandicola* (Kaltenbach, 1843)
1975, 924 (1); 1976, 903 (1); 1980, 901 (1).

65 *Myzocallis boerneri* Stroyan, 1957
1977, 912 (7); 1980, 912 (7).

71 *Tinocallis platani* (Kaltenbach, 1843)
1976, 910 (1); 1976, 913 (4); 1977, 913 (3); 1979, 913 (4).

73 *Takecallis arundinariae* (Essig, 1917)
1975, 903 (1); 1977, 908 (2); 1977, 913 (1); 1980, 913 (3); 1980, 917 (2).

86 *Symydobius oblongus* (von Heyden, C. H. G., 1837)
1979, 903 (2).

89 *Drepanosiphum acerinum* (Walker, 1848)
1975, 914 (1); 1977, 917 (2); 1978, 917 (1); 1978, 924 (1); 1979, 917 (2).

93 *Therioaphis ononidis* (Kaltenbach, 1843)
1978, 914 (1).

731 *Therioaphis riehmi* (Börner, C., 1949)
1979, 919 (2); 1980, 919 (2).

96 *Allaphis thripsoides* (Hille Ris Lambers, 1939)
1976, 919 (1); 1979, 919 (2).

107 *Plocamaphis bituberculata* (Theobald, 1912)
1976, 917 (2).

750 *Rhopalosiphum pilipes* Ossiannilsson, 1959
1976, 917 (2); 1978, 903 (1); 1979, 903 (2); 1979, 908 (1).

115 *Euschizaphis palustris* (Theobald, 1929)
1975, 923 (2); 1976, 916 (2).

116 *Schizaphis graminum* (Rondani, 1847)
1975, 923 (1); 1978, 910 (1).

154 *Aphis ruborum* (Börner, C., 1931)
1978, 910 (1).

155 *Aphis schneideri* (Börner, C., 1940)
1978, 914 (1).

163 *Aphis craccivora* Koch, C. L., 1854
1979, 901 (1); 1979, 903 (2); 1979, 908 (3); 1979, 924 (1); 1980, 924 (2).

196 *Aphis tormentillae* Passerini, 1879
1979, 912 (1).

204 *Aphis taraxacicola* (Börner, C., 1940)
1978, 923 (1).



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208 *Toxoptera aurantii* (Boyer de Fonscolombe, 1841)
1975, 908 (1); 1976, 908 (1); 1976, 910 (1); 1980, 910 (1).

244 *Brachycaudus jacobi* Stroyan, 1957
1976, 914 (1); 1978, 919 (1); 1978, 924 (1),

747 *Brachycaudus populi* (Del Guercio, 1911)
1977, 922 (1); 1979, 919 (2).

254 *Thuleaphis sedi* (Jacob, 1964)
1975, 907 (1); 1976, 919 (1); 1976, 924 (2).

255 *Brachycolus cerastii* (Kaltenbach, 1846)
1976, 908 (1); 1976, 910 (1).

262 *Hayhurstia cucubali* (Passerini, 1863)
1980, 910 (1).

274 *Decorosiphon corynothrix* Börner, C., 1939
1976, 908 (2); 1976, 923 (1); 1979, 923 (1); 1980, 910 (1); 1980, 924 (2).

278 *Coloradoa achilleae* Hille Ris Lambers, 1939
1976, 924 (2); 1977, 901 (2).

280 *Coloradoa rufomaculata* (Wilson, 1908)
1976, 901 (2); 1976, 905 (1); 1977, 914 (1); 1977, 922 (1); 1979, 919 (1).

748 *Coloradoa inodorella* Ossiannilsson, 1959
1978, 908 (1); 1978, 923 (1); 1979, 906 (1).

284 *Ericaphis ericae* (Börner, C., 1933)
1975, 908 (1); 1975, 913 (2); 1976, 912 (1); 1976, 916 (2); 1977, 906 (1)

288 *Chaetosiphon S. Pentatrichopus potentillae* (Walker, 1850)
1977, 917 (2); 1977, 924 (1); 1979, 922 (2).

304 *Ovatus mentharius* (van der Goot, 1913)
1976, 910 (1); 1978, 914 (1).

305 *Ovatus S. Ovatoides inulae* (Walker, 1849)
1975, 910 (1); 1978, 908 (1)

321 *Myzus S. Nectarosiphon myosotidis* (Börner, C., 1950)
1977, 919 (1).

341 *Capitophorus carduinus* (Walker, 1850)
1978, 922 (1); 1980, 907 (1).

349 *Pleotrichophorus duponti* Hille Ris Lambers, 1935
1978, 924 (1).

356 *Nasonovia S. Neokakimia dasyphylli* Stroyan, 1957
1976, 908 (1).

364 *Myzotoxoptera wimshurstae* Theobald, 1927
1975, 906 (1).

370 *Rhopalosiphoninus S. Submegoura heikinheimoi* (Börner, C., 1952)
1975, 901 (1); 1979, 908 (1); 1980, 908 (2).

375 *Aulacorthum rufum* Hille Ris Lambers, 1947
1975, 908 (1); 1975, 922 (1); 1977, 901 (1); 1977, 924 (1).

394 *Subacyrthosiphon cryptobius* Hille Ris Lambers, 1947
1977, 903 (2); 1977, 907 (1); 1977, 919 (1); 1979, 908 (1); 1979, 924 (1).

405 *Anthracosiphon hertae* Hille Ris Lambers, 1947
1975, 912 (1); 1976, 914 (1); 1978, 923 (1).

408 *Macrosiphum cholodkovskyi* Mordvilko, 1909
1978, 907 (1).

426 *Dactynotus achilleae* (Koch, C. L., 1855)
1980, 912 (1).

449 *Dactynotus S. Uromelan taraxaci* (Kaltenbach, 1843)
1979, 912 (5); 1980, 912 (8).



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455 *Macrosiphoniella pulvera* (Walker, 1848)
1978, 901 (1).

459 *Macrosiphoniella usquertensis* Hille Ris Lambers, 1935
1979, 908 (4).

464 *Macrosiphoniella S. Asterobium asteris* (Walker, 1849)
1976, 903 (1); 1978, 907 (1); 1978, 914 (1).

475 *Masonaphis S. Ericobium goldamaryae* (Knowlton, 1938)
1975, 913 (1); 1975, 917 (2); 1977, 908 (2); 1980, 903 (2).

476 *Masonaphis S. Ericobium morrisoni* (Swain, 1918)
1975, 908 (1); 1975, 910 (1); 1976, 922 (1); 1978, 924 (1); 1979, 908 (2).

479 *Wahlgreniella vaccinii* (Theobald, 1924)
1975, 919 (2); 1978, 912 (1).

483 *Anoecia vagans* (Koch, C. L., 1856)
1976, 903 (1); 1978, 914 (1); 1978, 924 (1).

487 *Glyphina betulae* (Linnaeus, 1758)
1975, 908 (1).

507 *Prociphilus fraxini* (Geoffroy, 1762)
1975, 903 (1); 1975, 916 (6); 1976, 908 (4); 1976, 919 (1).

526 *Smynthurodes betae* Westwood, 1849
1975, 914 (1); 1977, 910 (2); 1977, 913 (2); 1977, 914 (2).

532 *Geoica setulosa* (Passerini, 1860)
1976, 901 (2); 1976, 908 (2); 1976, 914 (4); 1978, 903 (1).

533 *Geoica eragrostidis* (Passerini, 1860)
1975, 908 (2); 1975, 914 (3); 1976, 908 (1); 1977, 901 (1).

727 *Melanaphis pyraria* (Passerini, 1861)
1978, 901 (1); 1978, 914 (1); 1979, 914 (2).

728 *Semiaphis dauci* (Fabricius, 1775)
1975, 910 (3); 1978, 910 (1); 1979, 910 (1); 1980, 901 (2).



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**TABLE 2**

*Annual total sample for aphid species that occurred on more than five occasions at 12·2 m, at any of 18 sites during 1975–80. Zero catches are recorded 0; dashes indicate no record.*

*see* pages 40–101.



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TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 4 | *Schizolachnus pineti* | | | | | | | | | |
| | 1975 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 0 |
| | 1976 | 17 | 11 | 5 | 1 | 0 | 0 | 4 | 8 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 1979 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 8 |
| | 1980 | 108 | 3 | 2 | 0 | 0 | 16 | 11 | 32 | 1 |
| 23 | *Tuberolachnus salignus* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1976 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 8 | 0 |
| | 1977 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | *Protrama flavescens* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 | *Protrama ranunculi* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| | 1978 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| | 1980 | 0 | 1 | 0 | 1 | 0 | 0 | 6 | 2 | 0 |
| 34 | *Trama troglodytes* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 35 | *Periphyllus acericola* | | | | | | | | | |
| | 1975 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 1978 | 0 | 3 | 1 | 0 | 0 | 0 | 2 | 0 | 0 |
| | 1979 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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# SYNOPTIC MONITORING FOR MIGRANT INSECT PESTS. III

**2(a)**

| Broom's Barn 904 | Hereford 917 | Rothamsted 901 | Writtle 924 | Long Ashton 914 | Silwood Park 908 | Wye, Kent 903 | Starcross 913 | Rosewarne 910 | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 4 *Schizolachnus pineti* |
| — | 0 | 3 | 6 | 10 | 28 | 8 | 1 | 0 | 1975 |
| — | 2 | 8 | 16 | 5 | 54 | 17 | 2 | 0 | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1977 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1978 |
| — | 4 | 2 | 0 | 0 | 7 | 2 | 0 | 0 | 1979 |
| — | 12 | 23 | 15 | 4 | 173 | 31 | 4 | 0 | 1980 |
| | | | | | | | | | 23 *Tuberolachnus salignus* |
| 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1975 |
| 0 | 0 | 5 | 2 | 5 | 1 | 40 | 0 | 0 | 1976 |
| 2 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1977 |
| 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 1 | 1978 |
| 0 | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 1979 |
| 1 | 2 | 0 | 2 | 3 | 1 | 2 | 0 | 0 | 1980 |
| | | | | | | | | | 28 *Protrama flavescens* |
| — | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1975 |
| — | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1976 |
| — | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 1977 |
| — | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1978 |
| — | 0 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1980 |
| | | | | | | | | | 30 *Protrama ranunculi* |
| — | 0 | 1 | 0 | 7 | 3 | 2 | 2 | 1 | 1975 |
| — | 4 | 2 | 3 | 3 | 2 | 2 | 0 | 0 | 1976 |
| — | 0 | 2 | 1 | 6 | 2 | 1 | 0 | 1 | 1977 |
| — | 0 | 1 | 1 | 1 | 1 | 2 | 0 | 1 | 1978 |
| — | 0 | 5 | 0 | 5 | 5 | 2 | 5 | 2 | 1979 |
| — | 2 | 4 | 4 | 6 | 4 | 0 | 1 | 1 | 1980 |
| | | | | | | | | | 34 *Trama troglodytes* |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1975 |
| 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 1976 |
| 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1977 |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1978 |
| 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1979 |
| 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1980 |
| | | | | | | | | | 35 *Periphyllus acericola* |
| — | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1975 |
| — | 0 | 1 | 1 | 0 | 21 | 2 | 0 | 0 | 1976 |
| — | 0 | 65 | 1 | 0 | 0 | 2 | 1 | 0 | 1977 |
| — | 0 | 1 | 1 | 0 | 23 | 1 | 1 | 0 | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1979 |
| — | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 1980 |



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TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 36 | *Periphyllus xanthomelas* | | | | | | | | | |
| | 1975 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 38 | *Periphyllus hirticornis* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 7 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 | *Periphyllus lyropictus* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41 | *Periphyllus testudinatus* | | | | | | | | | |
| | 1975 | 3 | 4 | 7 | 0 | 0 | 0 | 15 | 3 | 1 |
| | 1976 | 2 | 8 | 24 | 5 | 1 | 6 | 16 | 21 | 39 |
| | 1977 | 0 | 0 | 5 | 1 | 2 | 3 | 3 | 17 | 1 |
| | 1978 | 1 | 10 | 34 | 11 | 0 | 5 | 5 | 34 | 14 |
| | 1979 | 2 | 12 | 7 | 5 | 0 | 7 | 3 | 127 | 6 |
| | 1980 | 7 | 12 | 131 | 14 | 7 | 46 | 27 | 35 | 7 |
| 42 | *Chaitophorus beuthani* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| | 1976 | 0 | 0 | 1 | 0 | 0 | 3 | 4 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 0 |
| | 1979 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 14 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 |
| 43 | *Chaitophorus capreae* | | | | | | | | | |
| | 1975 | 0 | 1 | 0 | 1 | 0 | 0 | 2 | 0 | 0 |
| | 1976 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |



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**2(b)**

| Broom's Barn | Hereford | Rothamsted | Writtle | Long Ashton | Silwood Park | Wye, Kent | Starcross | Rosewarne | |
|---|---|---|---|---|---|---|---|---|---|
| 904 | 917 | 901 | 924 | 914 | 908 | 903 | 913 | 910 | |
| | | | | | | | | | 36 *Periphyllus xanthomelas* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1975 |
| — | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 1976 |
| — | 0 | 0 | 1 | 0 | 6 | 0 | 0 | 0 | 1977 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1978 |
| — | 0 | 0 | 1 | 0 | 5 | 0 | 1 | 0 | 1979 |
| — | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1980 |
| | | | | | | | | | 38 *Periphyllus hirticornis* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1975 |
| — | 0 | 1 | 1 | 0 | 13 | 5 | 0 | 0 | 1976 |
| — | 11 | 7 | 8 | 2 | 3 | 11 | 0 | 0 | 1977 |
| — | 2 | 1 | 2 | 2 | 2 | 2 | 0 | 0 | 1978 |
| — | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1979 |
| — | 0 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 1980 |
| | | | | | | | | | 39 *Periphyllus lyropictus* |
| — | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1975 |
| — | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1976 |
| — | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 1977 |
| — | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1979 |
| — | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 1980 |
| | | | | | | | | | 41 *Periphyllus testudinatus* |
| 1 | 23 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 1975 |
| 66 | 748 | 52 | 49 | 147 | 27 | 82 | 0 | 0 | 1976 |
| 34 | 112 | 30 | 69 | 12 | 16 | 24 | 2 | 0 | 1977 |
| 37 | 290 | 43 | 49 | 41 | 30 | 94 | 8 | 2 | 1978 |
| 60 | 1003 | 145 | 193 | 62 | 109 | 35 | 10 | 0 | 1979 |
| 114 | 273 | 141 | 227 | 61 | 5 | 116 | 4 | 2 | 1980 |
| | | | | | | | | | 42 *Chaitophorus beuthani* |
| — | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1975 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1976 |
| — | 3 | 6 | 0 | 0 | 9 | 6 | 0 | 0 | 1977 |
| — | 2 | 2 | 4 | 0 | 3 | 2 | 0 | 0 | 1978 |
| — | 2 | 0 | 2 | 0 | 5 | 0 | 0 | 1 | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 1980 |
| | | | | | | | | | 43 *Chaitophorus capreae* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 1975 |
| — | 8 | 0 | 0 | 0 | 0 | 2 | 0 | 4 | 1976 |
| — | 2 | 0 | 2 | 0 | 0 | 0 | 1 | 2 | 1977 |
| — | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1978 |
| — | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1980 |



*https://doi.org/10.23637/ERADOC-1-21* 

TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 45 | *Chaitophorus populeti* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1976 | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 6 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 2 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 0 |
| | 1980 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 |
| 46 | *Chaitophorus populialbae* | | | | | | | | | |
| | 1975 | 0 | 1 | 1 | 2 | 0 | 0 | 1 | 2 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 7 | 0 |
| | 1978 | 2 | 0 | 0 | 1 | 0 | 1 | 6 | 11 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 17 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 12 | 0 |
| 47 | *Chaitophorus salicti* | | | | | | | | | |
| | 1975 | 0 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 9 | 0 |
| | 1978 | 0 | 2 | 0 | 2 | 0 | 0 | 4 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 8 | 0 |
| | 1980 | 0 | 2 | 0 | 0 | 0 | 1 | 2 | 9 | 0 |
| 49 | *Chaitophorus truncatus* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 11 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 50 | *Chaitophorus versicolor* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| | 1976 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 16 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 742 | *Chaitophorus leucomelas* | | | | | | | | | |
| | 1975 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| | 1978 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 3 | 0 |
| | 1979 | 0 | 0 | 0 | 1 | 0 | 0 | 10 | 30 | 0 |
| | 1980 | 2 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |



*https://doi.org/10.23637/ERADOC-1-21* 

**2(c)**

| | Broom's Barn | Hereford | Rothamsted | Writtle | Long Ashton | Silwood Park | Wye, Kent | Starcross | Rosewarne | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 904 | 917 | 901 | 924 | 914 | 908 | 903 | 913 | 910 | |
| 45 | | | | | | | | | | *Chaitophorus populeti* |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1975 |
| | | 4 | 8 | 10 | 0 | 64 | 9 | 2 | 0 | 1976 |
| | | 2 | 2 | 18 | 0 | 13 | 8 | 0 | 0 | 1977 |
| | | 4 | 2 | 1 | 4 | 2 | 4 | 0 | 0 | 1978 |
| | | 8 | 3 | 24 | 0 | 76 | 0 | 1 | 0 | 1979 |
| | | 2 | 2 | 2 | 12 | 3 | 1 | 0 | 0 | 1980 |
| 46 | | | | | | | | | | *Chaitophorus populialbae* |
| | | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1975 |
| | | 0 | 2 | 0 | 0 | 4 | 1 | 0 | 0 | 1976 |
| | | 2 | 6 | 1 | 1 | 7 | 18 | 1 | 1 | 1977 |
| | | 3 | 4 | 8 | 0 | 11 | 8 | 0 | 6 | 1978 |
| | | 5 | 3 | 4 | 0 | 17 | 15 | 0 | 5 | 1979 |
| | | 0 | 0 | 2 | 0 | 1 | 6 | 0 | 2 | 1980 |
| 47 | | | | | | | | | | *Chaitophorus salicti* |
| | | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1975 |
| | | 0 | 0 | 9 | 0 | 4 | 2 | 0 | 0 | 1976 |
| | | 3 | 2 | 4 | 0 | 3 | 11 | 0 | 0 | 1977 |
| | | 1 | 0 | 2 | 1 | 0 | 2 | 0 | 0 | 1978 |
| | | 4 | 0 | 3 | 0 | 5 | 6 | 6 | 0 | 1979 |
| | | 0 | 0 | 0 | 0 | 4 | 2 | 1 | 0 | 1980 |
| 49 | | | | | | | | | | *Chaitophorus truncatus* |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1975 |
| | | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1976 |
| | | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 1977 |
| | | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1978 |
| | | 0 | 1 | 4 | 0 | 0 | 4 | 0 | 0 | 1979 |
| | | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1980 |
| 50 | | | | | | | | | | *Chaitophorus versicolor* |
| | | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1975 |
| | | 0 | 1 | 0 | 0 | 0 | 4 | 0 | 0 | 1976 |
| | | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1977 |
| | | 0 | 0 | 0 | 0 | 4 | 2 | 0 | 0 | 1978 |
| | | 0 | 4 | 0 | 2 | 3 | 0 | 0 | 0 | 1979 |
| | | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1980 |
| 742 | | | | | | | | | | *Chaitophorus leucomelas* |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1975 |
| | | 0 | 0 | 1 | 0 | 6 | 0 | 0 | 0 | 1976 |
| | | 3 | 3 | 10 | 6 | 4 | 8 | 0 | 0 | 1977 |
| | | 0 | 1 | 0 | 0 | 1 | 5 | 0 | 0 | 1978 |
| | | 14 | 0 | 3 | 2 | 17 | 2 | 5 | 0 | 1979 |
| | | 0 | 0 | 2 | 0 | 4 | 2 | 1 | 0 | 1980 |



*https://doi.org/10.23637/ERADOC-1-21* 

TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 51 | *Sipha glyceriae* | | | | | | | | | |
| | 1975 | 9 | 1 | 0 | 4 | 1 | 4 | 59 | 28 | 1 |
| | 1976 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 1979 | 5 | 1 | 0 | 1 | 7 | 0 | 22 | 14 | 2 |
| | 1980 | 18 | 1 | 0 | 0 | 3 | 1 | 111 | 14 | 3 |
| 59 | *Atheroides serrulatus* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 |
| 63 | *Myzocallis castanicola* | | | | | | | | | |
| | 1975 | 0 | 6 | 2 | 3 | 0 | 0 | 2 | 0 | 6 |
| | 1976 | 0 | 3 | 0 | 0 | 0 | 4 | 6 | 10 | 20 |
| | 1977 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 6 |
| | 1978 | 0 | 20 | 0 | 1 | 0 | 1 | 7 | 3 | 4 |
| | 1979 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 4 | 28 |
| | 1980 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 64 | *Myzocallis coryli* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 1 | 0 | 4 | 9 | 6 | 0 |
| | 1977 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 5 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 1 | 2 | 4 | 1 | 0 |
| | 1979 | 0 | 0 | 0 | 3 | 3 | 7 | 1 | 10 | 36 |
| | 1980 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 5 |
| 68 | *Tuberculoides annulatus* | | | | | | | | | |
| | 1975 | 16 | 275 | 71 | 26 | 18 | 10 | 26 | 98 | 62 |
| | 1976 | 51 | 172 | 139 | 123 | 190 | 208 | 569 | 694 | 443 |
| | 1977 | 5 | 26 | 5 | 12 | 19 | 9 | 70 | 282 | 2 |
| | 1978 | 9 | 509 | 4 | 17 | 206 | 111 | 310 | 274 | 131 |
| | 1979 | 15 | 43 | 0 | 24 | 56 | 25 | 85 | 393 | 117 |
| | 1980 | 83 | 79 | 0 | 3 | 13 | 28 | 65 | 122 | 88 |
| 758 | *Tuberculoides borealis* | | | | | | | | | |
| | 1975 | — | — | — | — | — | — | — | — | — |
| | 1976 | — | — | — | — | | — | — | — | — |
| | 1977 | 8 | 24 | 36 | 16 | 22 | 0 | 84 | 106 | 0 |
| | 1978 | 22 | 217 | 7 | 13 | 195 | 63 | 457 | 107 | 0 |
| | 1979 | 9 | 34 | 0 | 16 | 33 | 19 | 91 | 215 | 0 |
| | 1980 | 132 | 121 | 0 | 2 | 35 | 17 | 75 | 84 | 0 |



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**2(d)**

| Broom's Barn 904 | Hereford 917 | Rothamsted 901 | Writtle 924 | Long Ashton 914 | Silwood Park 908 | Wye, Kent 903 | Starcross 913 | Rosewarne 910 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 51 | *Sipha glyceriae* |
| 0 | 10 | 1 | 2 | 13 | 5 | 0 | 9 | 43 | | 1975 |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | | 1976 |
| 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | | 1977 |
| 0 | 1 | 0 | 3 | 1 | 3 | 0 | 0 | 0 | | 1978 |
| 1 | 6 | 0 | 2 | 9 | 4 | 4 | 2 | 0 | | 1979 |
| 0 | 0 | 0 | 0 | 27 | 1 | 2 | 2 | 1 | | 1980 |
| | | | | | | | | | 59 | *Atheroides serrulatus* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| — | 4 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | 1977 |
| — | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | | 1978 |
| — | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | | 1979 |
| — | 4 | 6 | 0 | 0 | 0 | 2 | 1 | 0 | | 1980 |
| | | | | | | | | | 63 | *Myzocallis castanicola* |
| 1 | 0 | 0 | 0 | 0 | 3 | 5 | 1 | 8 | | 1975 |
| 4 | 22 | 24 | 86 | 8 | 156 | 319 | 26 | 35 | | 1976 |
| 5 | 12 | 3 | 4 | 0 | 61 | 13 | 57 | 7 | | 1977 |
| 11 | 18 | 5 | 29 | 0 | 16 | 453 | 33 | 70 | | 1978 |
| 16 | 24 | 15 | 87 | 11 | 467 | 487 | 100 | 6 | | 1979 |
| 20 | 0 | 1 | 29 | 2 | 43 | 40 | 13 | 32 | | 1980 |
| | | | | | | | | | 64 | *Myzocallis coryli* |
| 5 | 6 | 2 | 5 | 2 | 1 | 5 | 2 | 1 | | 1975 |
| 2 | 41 | 19 | 73 | 55 | 13 | 147 | 5 | 9 | | 1976 |
| 5 | 324 | 67 | 327 | 19 | 29 | 120 | 5 | 6 | | 1977 |
| 4 | 40 | 31 | 27 | 35 | 11 | 143 | 3 | 2 | | 1978 |
| 4 | 56 | 22 | 33 | 50 | 15 | 33 | 12 | 0 | | 1979 |
| 1 | 8 | 20 | 4 | 16 | 2 | 22 | 2 | 4 | | 1980 |
| | | | | | | | | | 68 | *Tuberculoides annulatus* |
| 375 | 112 | 229 | 293 | 43 | 207 | 222 | 46 | 11 | | 1975 |
| 361 | 1493 | 885 | 2567 | 306 | 1215 | 1152 | 231 | 71 | | 1976 |
| 569 | 3489 | 806 | 1795 | 155 | 1480 | 200 | 272 | 11 | | 1977 |
| 1132 | 757 | 1267 | 1042 | 80 | 205 | 799 | 106 | 24 | | 1978 |
| 1207 | 864 | 460 | 2080 | 126 | 2833 | 761 | 259 | 6 | | 1979 |
| 203 | 252 | 293 | 239 | 60 | 215 | 363 | 68 | 8 | | 1980 |
| | | | | | | | | | 758 | *Tuberculoides borealis* |
| — | — | — | — | — | — | — | — | — | | 1975 |
| — | — | — | — | — | — | — | — | — | | 1976 |
| — | 5047 | 199 | 1015 | 97 | 527 | 68 | 76 | 3 | | 1977 |
| — | 279 | 313 | 444 | 50 | 104 | 278 | 31 | 13 | | 1978 |
| — | 493 | 147 | 648 | 80 | 1520 | 432 | 126 | 2 | | 1979 |
| — | 159 | 185 | 245 | 48 | 176 | 374 | 49 | 7 | | 1980 |



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TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 759 | *Tuberculoides neglectus* | | | | | | | | | |
| | 1975 | — | — | — | — | — | — | — | — | — |
| | 1976 | — | — | — | — | — | — | — | — | — |
| | 1977 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 1 | 39 |
| | 1978 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69 | *Tuberculatus querceus* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70 | *Eucallipterus tiliae* | | | | | | | | | |
| | 1975 | 1 | 13 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 1 | 2 | 0 | 0 | 1 | 2 | 22 | 10 | 0 |
| | 1977 | 0 | 0 | 1 | 0 | 3 | 0 | 4 | 22 | 0 |
| | 1978 | 0 | 3 | 1 | 0 | 1 | 1 | 5 | 4 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 152 | 0 |
| | 1980 | 0 | 2 | 7 | 0 | 0 | 0 | 2 | 4 | 0 |
| 72 | *Takecallis arundicolens* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75 | *Pterocallis alni* | | | | | | | | | |
| | 1975 | 37 | 17 | 8 | 3 | 1 | 4 | 47 | 3 | 0 |
| | 1976 | 2 | 1 | 1 | 4 | 4 | 1 | 56 | 2 | 0 |
| | 1977 | 1 | 1 | 0 | 1 | 1 | 0 | 6 | 14 | 0 |
| | 1978 | 6 | 0 | 2 | 0 | 12 | 7 | 70 | 17 | 0 |
| | 1979 | 1 | 0 | 0 | 2 | 2 | 0 | 22 | 4 | 2 |
| | 1980 | 0 | 5 | 0 | 0 | 0 | 0 | 14 | 0 | 1 |
| 78 | *Phyllaphis fagi* | | | | | | | | | |
| | 1975 | 32 | 326 | 185 | 101 | 10 | 29 | 13 | 0 | 2 |
| | 1976 | 40 | 41 | 17 | 12 | 195 | 42 | 34 | 47 | 43 |
| | 1977 | 6 | 15 | 41 | 17 | 8 | 0 | 7 | 10 | 3 |
| | 1978 | 13 | 59 | 22 | 4 | 8 | 15 | 42 | 30 | 5 |
| | 1979 | 20 | 23 | 16 | 4 | 12 | 17 | 7 | 27 | 2 |
| | 1980 | 173 | 269 | 1258 | 85 | 38 | 23 | 35 | 6 | 4 |



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# SYNOPTIC MONITORING FOR MIGRANT INSECT PESTS. III

**2(e)**

| Broom's Barn 904 | Hereford 917 | Rothamsted 901 | Writtle 924 | Long Ashton 914 | Silwood Park 908 | Wye, Kent 903 | Starcross 913 | Rosewarne 910 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 759 | *Tuberculoides neglectus* |
| — | — | — | — | — | — | — | — | — | | 1975 |
| — | — | — | — | — | — | — | — | — | | 1976 |
| — | 8 | 1 | 11 | 0 | 0 | 2 | 1 | 0 | | 1977 |
| — | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 69 | *Tuberculatus querceus* |
| 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | | 1975 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1976 |
| 0 | 1 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | | 1977 |
| 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | | 1978 |
| 0 | 0 | 0 | 0 | 0 | 11 | 4 | 0 | 0 | | 1979 |
| 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 70 | *Eucallipterus tiliae* |
| 4 | 0 | 31 | 17 | 4 | 14 | 5 | 1 | 0 | | 1975 |
| 0 | 0 | 16 | 22 | 14 | 23 | 0 | 4 | 1 | | 1976 |
| 1 | 20 | 107 | 35 | 7 | 26 | 7 | 1 | 0 | | 1977 |
| 1 | 0 | 9 | 9 | 1 | 7 | 9 | 0 | 0 | | 1978 |
| 78 | 0 | 11 | 25 | 0 | 62 | 4 | 1 | 0 | | 1979 |
| 1 | 0 | 20 | 18 | 0 | 6 | 8 | 0 | 2 | | 1980 |
| | | | | | | | | | 72 | *Takecallis arundicolens* |
| — | 0 | 1 | 6 | 0 | 0 | 1 | 6 | 10 | | 1975 |
| — | 0 | 0 | 0 | 2 | 8 | 0 | 0 | 8 | | 1976 |
| — | 0 | 0 | 14 | 1 | 1 | 0 | 3 | 5 | | 1977 |
| — | 0 | 0 | 3 | 0 | 1 | 1 | 0 | 5 | | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1979 |
| — | 0 | 0 | 2 | 0 | 18 | 0 | 0 | 6 | | 1980 |
| | | | | | | | | | 75 | *Pterocallis alni* |
| — | 5 | 0 | 3 | 0 | 3 | 14 | 8 | 2 | | 1975 |
| — | 43 | 6 | 11 | 18 | 30 | 335 | 2 | 15 | | 1976 |
| — | 205 | 10 | 41 | 7 | 33 | 149 | 1 | 1 | | 1977 |
| — | 28 | 0 | 4 | 3 | 2 | 681 | 11 | 3 | | 1978 |
| — | 52 | 0 | 6 | 10 | 22 | 338 | 17 | 0 | | 1979 |
| — | 24 | 0 | 0 | 2 | 4 | 122 | 1 | 5 | | 1980 |
| | | | | | | | | | 78 | *Phyllaphis fagi* |
| 4 | 2 | 2 | 0 | 11 | 8 | 4 | 2 | 3 | | 1975 |
| 100 | 40 | 107 | 35 | 81 | 723 | 43 | 10 | 2 | | 1976 |
| 16 | 6 | 29 | 10 | 4 | 28 | 62 | 5 | 0 | | 1977 |
| 10 | 11 | 9 | 7 | 12 | 11 | 12 | 12 | 4 | | 1978 |
| 22 | 6 | 19 | 30 | 9 | 188 | 25 | 15 | 0 | | 1979 |
| 39 | 1 | 15 | 12 | 15 | 55 | 71 | 3 | 0 | | 1980 |



*https://doi.org/10.23637/ERADOC-1-21* 

TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 79 | *Callipterinella calliptera* | | | | | | | | | |
| | 1975 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80 | *Callipterinella minutissima* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82 | *Kallistaphis basalis* | | | | | | | | | |
| | 1975 | 0 | 9 | 10 | 6 | 5 | 0 | 13 | 4 | 0 |
| | 1976 | 1 | 0 | 2 | 1 | 24 | 11 | 28 | 2 | 1 |
| | 1977 | 4 | 2 | 0 | 3 | 0 | 0 | 9 | 1 | 0 |
| | 1978 | 0 | 0 | 0 | 2 | 2 | 0 | 21 | 0 | 0 |
| | 1979 | 0 | 8 | 1 | 7 | 2 | 0 | 1 | 4 | 0 |
| | 1980 | 16 | 16 | 0 | 6 | 5 | 3 | 6 | 0 | 0 |
| 83 | *Kallistaphis betulicola* | | | | | | | | | |
| | 1975 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 2 | 0 | 0 | 2 | 20 | 2 | 0 | 0 | 0 |
| | 1977 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| | 1978 | 0 | 10 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 2 | 0 |
| | 1980 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 84 | *Betulaphis quadrituberculata* | | | | | | | | | |
| | 1975 | 1 | 11 | 34 | 7 | 0 | 1 | 33 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 3 | 4 | 0 | 20 | 0 | 2 |
| | 1977 | 0 | 2 | 5 | 1 | 0 | 0 | 8 | 3 | 1 |
| | 1978 | 5 | 36 | 6 | 3 | 1 | 2 | 26 | 6 | 0 |
| | 1979 | 4 | 24 | 6 | 9 | 2 | 3 | 10 | 36 | 4 |
| | 1980 | 143 | 125 | 112 | 19 | 79 | 8 | 32 | 12 | 0 |
| 87 | *Clethrobius comes* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 4 | 0 |



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2(f)

| 904 Broom's Barn | 917 Hereford | 901 Rothamsted | 924 Writtle | 914 Long Ashton | 908 Silwood Park | 903 Wye, Kent | 913 Starcross | 910 Rosewarne | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 79 *Callipterinella calliptera* |
| — | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1975 |
| — | 0 | 1 | 0 | 0 | 10 | 0 | 0 | 0 | 1976 |
| — | 0 | 1 | 0 | 0 | 2 | 2 | 0 | 0 | 1977 |
| — | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1979 |
| — | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 1980 |
| | | | | | | | | | 80 *Callipterinella minutissima* |
| — | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1975 |
| — | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1976 |
| — | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1977 |
| — | 0 | 1 | 0 | 4 | 1 | 3 | 0 | 0 | 1978 |
| — | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1979 |
| — | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1980 |
| | | | | | | | | | 82 *Kallistaphis basalis* |
| 0 | 0 | 0 | 0 | 1 | 0 | 5 | 2 | 6 | 1975 |
| 0 | 15 | 4 | 6 | 0 | 35 | 45 | 0 | 2 | 1976 |
| 1 | 0 | 5 | 15 | 2 | 19 | 7 | 9 | 0 | 1977 |
| 0 | 0 | 1 | 3 | 2 | 5 | 24 | 2 | 13 | 1978 |
| 0 | 6 | 4 | 4 | 2 | 11 | 68 | 8 | 0 | 1979 |
| 1 | 0 | 0 | 2 | 0 | 6 | 12 | 4 | 9 | 1980 |
| | | | | | | | | | 83 *Kallistaphis betulicola* |
| 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1975 |
| 0 | 0 | 0 | 4 | 0 | 4 | 17 | 0 | 0 | 1976 |
| 0 | 1 | 0 | 2 | 0 | 6 | 1 | 0 | 0 | 1977 |
| 1 | 0 | 1 | 0 | 0 | 2 | 2 | 0 | 0 | 1978 |
| 0 | 0 | 0 | 0 | 0 | 9 | 43 | 2 | 0 | 1979 |
| 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1980 |
| | | | | | | | | | 84 *Betulaphis quadrituberculata* |
| 0 | 0 | 0 | 0 | 1 | 0 | 7 | 0 | 0 | 1975 |
| 4 | 12 | 0 | 0 | 4 | 8 | 5 | 0 | 0 | 1976 |
| 0 | 4 | 7 | 16 | 1 | 0 | 36 | 1 | 0 | 1977 |
| 44 | 11 | 2 | 4 | 5 | 1 | 49 | 0 | 0 | 1978 |
| 46 | 14 | 11 | 22 | 13 | 29 | 58 | 11 | 0 | 1979 |
| 0 | 1 | 0 | 7 | 2 | 3 | 15 | 2 | 0 | 1980 |
| | | | | | | | | | 87 *Clethrobius comes* |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1975 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1976 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1977 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1978 |
| 0 | 0 | 2 | 0 | 0 | 5 | 0 | 0 | 0 | 1979 |
| 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 1980 |



*https://doi.org/10.23637/ERADOC-1-21* 

**TABLE**

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 88 | *Euceraphis punctipennis* | | | | | | | | | |
| | 1975 | 65 | 107 | 21 | 16 | 14 | 1 | 35 | 8 | 17 |
| | 1976 | 16 | 20 | 14 | 15 | 69 | 19 | 29 | 69 | 55 |
| | 1977 | 71 | 50 | 38 | 21 | 39 | 26 | 19 | 37 | 17 |
| | 1978 | 277 | 77 | 29 | 14 | 98 | 50 | 173 | 124 | 37 |
| | 1979 | 12 | 52 | 46 | 18 | 38 | 20 | 11 | 143 | 29 |
| | 1980 | 422 | 288 | 230 | 138 | 219 | 123 | 90 | 175 | 26 |
| 90 | *Drepanosiphum aceris* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 91 | *Drepanosiphum platanoidis* | | | | | | | | | |
| | 1975 | 261 | 458 | 1056 | 69 | 142 | 124 | 747 | 816 | 127 |
| | 1976 | 441 | 1646 | 3650 | 213 | 2527 | 1244 | 3566 | 2633 | 2631 |
| | 1977 | 163 | 543 | 315 | 117 | 219 | 275 | 1382 | 442 | 41 |
| | 1978 | 418 | 4136 | 5961 | 552 | 160 | 282 | 1414 | 320 | 747 |
| | 1979 | 328 | 434 | 672 | 330 | 318 | 1066 | 1248 | 2178 | 366 |
| | 1980 | 1101 | 2391 | 9000 | 543 | 2185 | 4128 | 3126 | 1839 | 1742 |
| 754 | *Drepanosiphum dixon.* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | — |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | — |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | — |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | — |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | — |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | — |
| 92 | *Therioaphis luteola* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 95 | *Trichocallis cyperi* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 5 | 0 | 1 | 0 | 1 | 0 |
| | 1976 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| | 1980 | 1 | 4 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |



*https://doi.org/10.23637/ERADOC-1-21* 

**2(g)**

| Broom's Barn 904 | Hereford 917 | Rothamsted 901 | Writtle 924 | Long Ashton 914 | Silwood Park 908 | Wye, Kent 903 | Starcross 913 | Rosewarne 910 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 88 | *Euceraphis punctipennis* |
| 1 | 3 | 10 | 27 | 6 | 22 | 21 | 13 | 3 | | 1975 |
| 56 | 34 | 59 | 123 | 55 | 586 | 93 | 17 | 1 | | 1976 |
| 78 | 54 | 96 | 160 | 102 | 267 | 187 | 66 | 63 | | 1977 |
| 132 | 47 | 97 | 169 | 71 | 88 | 111 | 43 | 14 | | 1978 |
| 122 | 98 | 70 | 192 | 65 | 1268 | 164 | 35 | 0 | | 1979 |
| 56 | 27 | 46 | 77 | 49 | 197 | 65 | 29 | 2 | | 1980 |
| | | | | | | | | | 90 | *Drepanosiphum aceris* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| — | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | | 1976 |
| — | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| — | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1978 |
| — | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | | 1979 |
| — | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 91 | *Drepanosiphum platanoidis* |
| 91 | 130 | 18 | 51 | 139 | 35 | 25 | 110 | 129 | | 1975 |
| 582 | 374 | 254 | 263 | 588 | 839 | 335 | 412 | 943 | | 1976 |
| 87 | 367 | 92 | 172 | 81 | 222 | 185 | 43 | 43 | | 1977 |
| 109 | 437 | 20 | 81 | 589 | 22 | 292 | 107 | 208 | | 1978 |
| 727 | 992 | 565 | 272 | 827 | 1550 | 244 | 186 | 108 | | 1979 |
| 2018 | 526 | 635 | 645 | 979 | 594 | 437 | 196 | 525 | | 1980 |
| | | | | | | | | | 754 | *Drepanosiphum dixoni* |
| — | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| — | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1978 |
| — | 2 | 0 | 0 | 0 | 1 | 8 | 0 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 92 | *Therioaphis luteola* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| — | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | | 1978 |
| — | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 95 | *Trichocallis cyperi* |
| — | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | | 1977 |
| — | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |



*https://doi.org/10.23637/ERADOC-1-21* 

TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 100 | *Juncobia leegei* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102 | *Pterocomma pilosum* | | | | | | | | | |
| | 1975 | 0 | 2 | 1 | 0 | 1 | 0 | 1 | 0 | 2 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 1 |
| | 1977 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 1 |
| | 1979 | 1 | 0 | 0 | 6 | 1 | 1 | 3 | 7 | 0 |
| | 1980 | 1 | 1 | 0 | 0 | 2 | 0 | 1 | 0 | 0 |
| 103 | *Pterocomma populeum* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 |
| | 1976 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 5 | 3 |
| | 1977 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 1978 | 0 | 1 | 0 | 0 | 1 | 0 | 5 | 0 | 1 |
| | 1979 | 0 | 0 | 1 | 3 | 0 | 0 | 2 | 6 | 1 |
| | 1980 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 1 | 6 |
| 104 | *Pterocomma salicis* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105 | *Pterocomma steinheili* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 1 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110 | *Hyalopterus pruni* | | | | | | | | | |
| | 1975 | 11 | 2135 | 80 | 33 | 13 | 20 | 20 | 50 | 2 |
| | 1976 | 45 | 1198 | 102 | 58 | 94 | 166 | 327 | 285 | 64 |
| | 1977 | 25 | 170 | 68 | 60 | 8 | 33 | 197 | 1524 | 87 |
| | 1978 | 7 | 121 | 14 | 12 | 17 | 57 | 149 | 361 | 19 |
| | 1979 | 3 | 301 | 10 | 2 | 21 | 297 | 191 | 1749 | 37 |
| | 1980 | 18 | 385 | 77 | 23 | 78 | 171 | 350 | 474 | 24 |



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**2(h)**

| Broom's Barn 904 | Hereford 917 | Rothamsted 901 | Writtle 924 | Long Ashton 914 | Silwood Park 908 | Wye, Kent 903 | Starcross 913 | Rosewarne 910 | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 100 *Juncobia leegei* |
| — | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1975 |
| — | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1976 |
| — | 0 | 0 | 0 | 6 | 0 | 0 | 23 | 0 | 1977 |
| — | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1978 |
| — | 0 | 0 | 0 | 4 | 0 | 0 | 1 | 0 | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1980 |
| | | | | | | | | | 102 *Pterocomma pilosum* |
| 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1975 |
| 0 | 0 | 0 | 0 | 4 | 7 | 1 | 0 | 0 | 1976 |
| 0 | 4 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 1977 |
| 0 | 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 1978 |
| 1 | 12 | 0 | 1 | 3 | 4 | 1 | 0 | 0 | 1979 |
| 0 | 0 | 1 | 2 | 0 | 4 | 1 | 1 | 0 | 1980 |
| | | | | | | | | | 103 *Pterocomma populeum* |
| — | 1 | 0 | 0 | 0 | 2 | 1 | 0 | 2 | 1975 |
| — | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1976 |
| — | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1977 |
| — | 1 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 1978 |
| — | 9 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 1979 |
| — | 2 | 3 | 0 | 0 | 2 | 0 | 0 | 0 | 1980 |
| | | | | | | | | | 104 *Pterocomma salicis* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1975 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1977 |
| — | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1978 |
| — | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1980 |
| | | | | | | | | | 105 *Pterocomma steinheili* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1975 |
| — | 0 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1977 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1978 |
| — | 11 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1980 |
| | | | | | | | | | 110 *Hyalopterus pruni* |
| 111 | 15 | 29 | 127 | 34 | 18 | 73 | 61 | 3 | 1975 |
| 575 | 240 | 476 | 1710 | 191 | 486 | 599 | 177 | 59 | 1976 |
| 589 | 918 | 1733 | 1711 | 1130 | 830 | 1769 | 960 | 107 | 1977 |
| 304 | 115 | 201 | 337 | 114 | 161 | 408 | 101 | 12 | 1978 |
| 3463 | 410 | 1747 | 2782 | 648 | 1549 | 5299 | 231 | 69 | 1979 |
| 167 | 36 | 121 | 161 | 60 | 195 | 324 | 60 | 7 | 1980 |



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TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 111 | *Rhopalosiphum insertum* | | | | | | | | | |
| | 1975 | 93 | 448 | 469 | 521 | 248 | 220 | 595 | 659 | 528 |
| | 1976 | 358 | 1544 | 745 | 2261 | 1699 | 314 | 2113 | 259 | 764 |
| | 1977 | 595 | 1134 | 1010 | 1481 | 1396 | 387 | 2439 | 1936 | 313 |
| | 1978 | 468 | 3534 | 1607 | 2680 | 2942 | 1945 | 6561 | 5787 | 6402 |
| | 1979 | 2791 | 3192 | 2686 | 933 | 6524 | 4320 | 8702 | 7483 | 9133 |
| | 1980 | 3136 | 4827 | 1011 | 3752 | 2320 | 1198 | 10986 | 2002 | 1849 |
| 112 | *Rhopalosiphum maidis* | | | | | | | | | |
| | 1975 | 19 | 28 | 31 | 28 | 48 | 84 | 11 | 19 | 3 |
| | 1976 | 6 | 3 | 13 | 2 | 4 | 7 | 8 | 1 | 2 |
| | 1977 | 3 | 7 | 11 | 3 | 3 | 4 | 5 | 13 | 14 |
| | 1978 | 6 | 5 | 4 | 2 | 6 | 2 | 9 | 7 | 17 |
| | 1979 | 29 | 153 | 9 | 5 | 69 | 313 | 124 | 160 | 105 |
| | 1980 | 2 | 12 | 0 | 6 | 7 | 4 | 7 | 0 | 10 |
| 113 | *Rhopalosiphum nymphaeae* | | | | | | | | | |
| | 1975 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1976 | 0 | 0 | 1 | 0 | 2 | 1 | 3 | 65 | 2 |
| | 1977 | 0 | 0 | 1 | 0 | 0 | 2 | 6 | 11 | 1 |
| | 1978 | 0 | 0 | 1 | 0 | 0 | 0 | 14 | 1 | 0 |
| | 1979 | 0 | 1 | 0 | 0 | 2 | 3 | 5 | 27 | 0 |
| | 1980 | 0 | 1 | 0 | 0 | 1 | 0 | 33 | 2 | 0 |
| 114 | *Rhopalosiphum padi* | | | | | | | | | |
| | 1975 | 2332 | 4784 | 5516 | 1879 | 1197 | 681 | 10839 | 2720 | 2779 |
| | 1976 | 2107 | 11779 | 5383 | 3633 | 6012 | 3916 | 3215 | 4379 | 976 |
| | 1977 | 17887 | 10571 | 4356 | 4298 | 4552 | 2020 | 14580 | 13201 | 5253 |
| | 1978 | 18805 | 41677 | 10434 | 4317 | 7511 | 4797 | 14703 | 22840 | 10662 |
| | 1979 | 11301 | 15667 | 8028 | 1913 | 3361 | 4240 | 5949 | 7857 | 2197 |
| | 1980 | 2620 | 6243 | 4543 | 3693 | 3782 | 2591 | 11569 | 21658 | 2766 |
| 739 | *Rhopalosiphum rufulum* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | — |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | — |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | — |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 7 | — |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 4 | 56 | 68 | — |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | — |
| 121 | *Paraschizaphis scirpi* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 4 | 0 |



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2(i)

| Broom's Barn 904 | Hereford 917 | Rothamsted 901 | Writtle 924 | Long Ashton 914 | Silwood Park 908 | Wye, Kent 903 | Starcross 913 | Rosewarne 910 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 111 | *Rhopalosiphum insertum* |
| 218 | 171 | 124 | 208 | 194 | 167 | 679 | 259 | 532 | | 1975 |
| 93 | 266 | 214 | 193 | 126 | 203 | 382 | 181 | 91 | | 1976 |
| 1268 | 1060 | 1981 | 2227 | 540 | 2028 | 2320 | 1101 | 294 | | 1977 |
| 5198 | 14537 | 5939 | 3108 | 6015 | 4626 | 6998 | 5646 | 3026 | | 1978 |
| 1033 | 8702 | 1104 | 710 | 1600 | 1702 | 2244 | 1407 | 813 | | 1979 |
| 1044 | 844 | 858 | 620 | 1623 | 890 | 1029 | 1043 | 1815 | | 1980 |
| | | | | | | | | | 112 | *Rhopalosiphum maidis* |
| 18 | 8 | 14 | 16 | 5 | 5 | 18 | 31 | 12 | | 1975 |
| 3 | 2 | 3 | 5 | 8 | 0 | 15 | 6 | 6 | | 1976 |
| 31 | 5 | 27 | 66 | 12 | 9 | 30 | 33 | 37 | | 1977 |
| 12 | 1 | 2 | 4 | 7 | 3 | 17 | 7 | 7 | | 1978 |
| 977 | 77 | 186 | 255 | 38 | 75 | 804 | 88 | 224 | | 1979 |
| 18 | 2 | 1 | 4 | 10 | 2 | 9 | 11 | 6 | | 1980 |
| | | | | | | | | | 113 | *Rhopalosiphum nymphaeae* |
| 0 | 0 | 2 | 2 | 6 | 5 | 5 | 1 | 0 | | 1975 |
| 0 | 4 | 3 | 20 | 14 | 24 | 30 | 7 | 2 | | 1976 |
| 0 | 0 | 6 | 5 | 7 | 6 | 10 | 1 | 0 | | 1977 |
| 0 | 1 | 0 | 1 | 5 | 1 | 16 | 0 | 3 | | 1978 |
| 0 | 7 | 0 | 16 | 3 | 37 | 3 | 2 | 0 | | 1979 |
| 1 | 6 | 5 | 8 | 26 | 12 | 116 | 2 | 2 | | 1980 |
| | | | | | | | | | 114 | *Rhopalosiphum padi* |
| 5421 | 3974 | 1079 | 2728 | 1701 | 2153 | 1657 | 3273 | 2516 | | 1975 |
| 3846 | 3196 | 1992 | 5644 | 2175 | 4046 | 5596 | 4586 | 473 | | 1976 |
| 12177 | 7721 | 8149 | 15700 | 8723 | 10301 | 10054 | 13384 | 5385 | | 1977 |
| 9628 | 9785 | 3254 | 3782 | 8924 | 5799 | 35749 | 10639 | 1762 | | 1978 |
| 18815 | 6226 | 3807 | 6835 | 5480 | 3800 | 9313 | 6452 | 634 | | 1979 |
| 4756 | 4417 | 2720 | 3741 | 3878 | 2688 | 5295 | 2202 | 675 | | 1980 |
| | | | | | | | | | 739 | *Rhopalosiphum rufulum* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | | 1977 |
| — | 3 | 3 | 1 | 0 | 9 | 0 | 0 | 0 | | 1978 |
| — | 0 | 6 | 2 | 0 | 10 | 1 | 0 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 121 | *Paraschizaphis scirpi* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| — | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | | 1977 |
| — | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | | 1978 |
| — | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | | 1979 |
| — | 2 | 2 | 2 | 0 | 0 | 2 | 0 | 0 | | 1980 |



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TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 125 | *Aphis sambuci* | | | | | | | | | |
| | 1975 | 1 | 27 | 317 | 14 | 2 | 4 | 2 | 17 | 8 |
| | 1976 | 0 | 0 | 4 | 5 | 2 | 6 | 5 | 22 | 4 |
| | 1977 | 1 | 8 | 11 | 18 | 2 | 3 | 20 | 35 | 0 |
| | 1978 | 2 | 68 | 121 | 8 | 6 | 8 | 8 | 3 | 0 |
| | 1979 | 0 | 7 | 8 | 0 | 1 | 2 | 10 | 180 | 0 |
| | 1980 | 2 | 42 | 420 | 6 | 4 | 6 | 13 | 8 | 0 |
| 132 | *Aphis fabae* | | | | | | | | | |
| | 1975 | 56 | 195 | 157 | 187 | 48 | 7 | 2 | 13 | 5 |
| | 1976 | 34 | 95 | 16 | 148 | 132 | 10 | 13 | 19 | 19 |
| | 1977 | 41 | 211 | 88 | 185 | 16 | 11 | 137 | 613 | 79 |
| | 1978 | 180 | 1432 | 193 | 108 | 847 | 238 | 528 | 1024 | 421 |
| | 1979 | 35 | 47 | 50 | 39 | 161 | 1852 | 294 | 2401 | 84 |
| | 1980 | 58 | 359 | 195 | 29 | 410 | 19 | 118 | 49 | 47 |
| 137 | *Aphis rumicis* | | | | | | | | | |
| | 1975 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 4 | 0 |
| | 1976 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 1978 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 7 | 1 | 17 | 12 | 0 |
| | 1980 | 8 | 3 | 4 | 1 | 0 | 0 | 1 | 0 | 0 |
| 142 | *Aphis corniella* | | | | | | | | | |
| | 1975 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 3 | 1 |
| | 1976 | 0 | 4 | 1 | 0 | 5 | 6 | 109 | 25 | 31 |
| | 1977 | 0 | 1 | 9 | 6 | 1 | 0 | 11 | 60 | 0 |
| | 1978 | 0 | 0 | 1 | 0 | 1 | 0 | 8 | 14 | 0 |
| | 1979 | 0 | 18 | 2 | 0 | 7 | 3 | 5 | 138 | 0 |
| | 1980 | 0 | 13 | 9 | 2 | 6 | 0 | 9 | 2 | 0 |
| 150 | *Aphis idaei* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 152 | *Aphis nasturtii* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 64 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |



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# SYNOPTIC MONITORING FOR MIGRANT INSECT PESTS. III

2(j)

| Broom's Barn | Hereford | Rothamsted | Writtle | Long Ashton | Silwood Park | Wye, Kent | Starcross | Rosewarne | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 904 | 917 | 901 | 924 | 914 | 908 | 903 | 913 | 910 | 125 | *Aphis sambuci* |
| — | 0 | 6 | 8 | 3 | 12 | 5 | 5 | 5 | | 1975 |
| — | 1 | 11 | 41 | 14 | 28 | 15 | 0 | 56 | | 1976 |
| — | 19 | 41 | 72 | 21 | 87 | 34 | 7 | 3 | | 1977 |
| — | 0 | 13 | 13 | 4 | 18 | 4 | 3 | 1 | | 1978 |
| — | 8 | 43 | 27 | 26 | 51 | 24 | 4 | 3 | | 1979 |
| — | 0 | 2 | 13 | 7 | 9 | 30 | 0 | 2 | | 1980 |
| | | | | | | | | | 132 | *Aphis fabae* |
| 292 | 15 | 505 | 151 | 13 | 32 | 50 | 32 | 20 | | 1975 |
| 22 | 12 | 155 | 238 | 48 | 162 | 149 | 77 | 57 | | 1976 |
| 1164 | 511 | 1388 | 4939 | 470 | 1511 | 985 | 299 | 56 | | 1977 |
| 2001 | 407 | 187 | 640 | 133 | 114 | 327 | 95 | 28 | | 1978 |
| 8709 | 825 | 793 | 1508 | 340 | 501 | 763 | 181 | 6 | | 1979 |
| 133 | 53 | 25 | 110 | 51 | 41 | 135 | 12 | 15 | | 1980 |
| | | | | | | | | | 137 | *Aphis rumicis* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | 1975 |
| — | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1976 |
| — | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| — | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1978 |
| — | 20 | 6 | 0 | 0 | 2 | 0 | 0 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 142 | *Aphis corniella* |
| 0 | 0 | 3 | 4 | 2 | 5 | 6 | 0 | 0 | | 1975 |
| 2 | 0 | 5 | 26 | 10 | 8 | 20 | 5 | 0 | | 1976 |
| 0 | 5 | 5 | 10 | 14 | 14 | 5 | 5 | 0 | | 1977 |
| 6 | 6 | 2 | 1 | 12 | 5 | 7 | 6 | 2 | | 1978 |
| 19 | 1 | 10 | 45 | 7 | 71 | 20 | 1 | 0 | | 1979 |
| 2 | 6 | 1 | 2 | 2 | 13 | 4 | 2 | 0 | | 1980 |
| | | | | | | | | | 150 | *Aphis idaei* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| — | 4 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | | 1976 |
| — | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| — | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | | 1978 |
| — | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 152 | *Aphis nasturtii* |
| — | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | | 1975 |
| — | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | | 1976 |
| — | 0 | 5 | 4 | 2 | 0 | 0 | 0 | 1 | | 1977 |
| — | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | | 1978 |
| — | 76 | 26 | 12 | 2 | 20 | 26 | 0 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | | 1980 |



*https://doi.org/10.23637/ERADOC-1-21* 

TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 153 | *Aphis pomi* | | | | | | | | | |
| | 1975 | 2 | 43 | 370 | 5 | 1 | 1 | 1 | 11 | 1 |
| | 1976 | 0 | 1 | 4 | 3 | 2 | 7 | 11 | 41 | 0 |
| | 1977 | 4 | 2 | 0 | 13 | 1 | 0 | 16 | 40 | 0 |
| | 1978 | 3 | 70 | 0 | 3 | 7 | 3 | 3 | 2 | 0 |
| | 1979 | 0 | 1 | 3 | 3 | 0 | 1 | 8 | 80 | 0 |
| | 1980 | 4 | 53 | 98 | 12 | 5 | 1 | 14 | 18 | 0 |
| 211 | *Ceruraphis eriophori* | | | | | | | | | |
| | 1975 | 4 | 8 | 9 | 34 | 4 | 0 | 4 | 3 | 46 |
| | 1976 | 31 | 45 | 84 | 511 | 8 | 0 | 20 | 5 | 143 |
| | 1977 | 35 | 9 | 18 | 42 | 2 | 0 | 38 | 2 | 50 |
| | 1978 | 8 | 6 | 13 | 18 | 46 | 7 | 169 | 24 | 497 |
| | 1979 | 49 | 22 | 57 | 21 | 55 | 7 | 159 | 35 | 234 |
| | 1980 | 92 | 54 | 38 | 132 | 115 | 14 | 37 | 19 | 94 |
| 234 | *Dysaphis plantaginea* | | | | | | | | | |
| | 1975 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 4 | 14 |
| | 1976 | 1 | 0 | 0 | 2 | 2 | 5 | 15 | 30 | 125 |
| | 1977 | 0 | 0 | 5 | 5 | 1 | 2 | 7 | 39 | 37 |
| | 1978 | 0 | 0 | 0 | 2 | 0 | 2 | 3 | 14 | 49 |
| | 1979 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 6 | 64 |
| | 1980 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 14 | 7 |
| 235 | *Dysaphis pyri* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 |
| | 1976 | 0 | 1 | 0 | 1 | 0 | 0 | 7 | 17 | 1 |
| | 1977 | 2 | 0 | 0 | 0 | 0 | 2 | 7 | 66 | 0 |
| | 1978 | 0 | 1 | 0 | 7 | 0 | 0 | 1 | 3 | 0 |
| | 1979 | 2 | 1 | 0 | 1 | 1 | 1 | 0 | 14 | 0 |
| | 1980 | 0 | 3 | 0 | 2 | 0 | 0 | 0 | 4 | 0 |
| 238 | *Anuraphis farfarae* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 239 | *Anuraphis subterranea* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 |
| | 1977 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 4 | 0 |
| | 1978 | 2 | 5 | 0 | 2 | 0 | 1 | 0 | 0 | 1 |
| | 1979 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 1980 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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**2(k)**

| | Broom's Barn | Hereford | Rothamsted | Writtle | Long Ashton | Silwood Park | Wye, Kent | Starcross | Rosewarne | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 904 | 917 | 901 | 924 | 914 | 908 | 903 | 913 | 910 | |
| 153 | *Aphis pomi* | | | | | | | | | |
| 1975 | — | 4 | 8 | 12 | 8 | 31 | 11 | 6 | 10 | |
| 1976 | — | 6 | 28 | 64 | 39 | 86 | 22 | 5 | 2 | |
| 1977 | — | 18 | 14 | 45 | 43 | 53 | 27 | 18 | 7 | |
| 1978 | — | 1 | 7 | 10 | 14 | 11 | 9 | 3 | 4 | |
| 1979 | — | 6 | 14 | 8 | 33 | 57 | 6 | 7 | 2 | |
| 1980 | — | 2 | 7 | 4 | 26 | 11 | 14 | 3 | 4 | |
| 211 | *Ceruraphis eriophori* | | | | | | | | | |
| 1975 | — | 1 | 0 | 0 | 0 | 0 | 0 | 8 | 1 | |
| 1976 | — | 0 | 0 | 2 | 3 | 7 | 6 | 10 | 0 | |
| 1977 | — | 5 | 3 | 1 | 6 | 19 | 8 | 26 | 14 | |
| 1978 | — | 34 | 11 | 4 | 35 | 29 | 42 | 24 | 10 | |
| 1979 | — | 43 | 4 | 5 | 27 | 30 | 15 | 13 | 2 | |
| 1980 | — | 15 | 2 | 5 | 19 | 7 | 1 | 12 | 2 | |
| 234 | *Dysaphis plantaginea* | | | | | | | | | |
| 1975 | 27 | 10 | 11 | 2 | 35 | 20 | 4 | 29 | 0 | |
| 1976 | 44 | 79 | 36 | 70 | 172 | 71 | 79 | 22 | 5 | |
| 1977 | 63 | 70 | 37 | 32 | 40 | 51 | 22 | 17 | 18 | |
| 1978 | 14 | 12 | 13 | 6 | 31 | 86 | 15 | 27 | 29 | |
| 1979 | 33 | 6 | 19 | 8 | 9 | 22 | 11 | 6 | 2 | |
| 1980 | 43 | 0 | 2 | 11 | 7 | 10 | 4 | 3 | 1 | |
| 235 | *Dysaphis pyri* | | | | | | | | | |
| 1975 | — | 1 | 0 | 2 | 2 | 8 | 1 | 2 | 0 | |
| 1976 | — | 4 | 18 | 13 | 13 | 36 | 10 | 2 | 2 | |
| 1977 | — | 3 | 12 | 55 | 8 | 33 | 22 | 1 | 0 | |
| 1978 | — | 1 | 2 | 0 | 7 | 12 | 4 | 0 | 2 | |
| 1979 | — | 3 | 2 | 0 | 13 | 16 | 17 | 2 | 0 | |
| 1980 | — | 0 | 2 | 4 | 2 | 2 | 2 | 1 | 0 | |
| 238 | *Anuraphis farfarae* | | | | | | | | | |
| 1975 | — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1976 | — | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | |
| 1977 | — | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | |
| 1978 | — | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1979 | — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1980 | — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 239 | *Anuraphis subterranea* | | | | | | | | | |
| 1975 | — | 0 | 2 | 1 | 1 | 2 | 0 | 2 | 0 | |
| 1976 | — | 1 | 1 | 3 | 2 | 2 | 4 | 1 | 0 | |
| 1977 | — | 2 | 3 | 2 | 1 | 0 | 5 | 0 | 0 | |
| 1978 | — | 1 | 0 | 0 | 2 | 0 | 1 | 1 | 0 | |
| 1979 | — | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 1 | |
| 1980 | — | 2 | 1 | 0 | 0 | 2 | 0 | 0 | 1 | |



*https://doi.org/10.23637/ERADOC-1-21* 

TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 241 | *Brachycaudus cardui* | | | | | | | | | |
| | 1975 | 0 | 4 | 0 | 4 | 1 | 3 | 15 | 9 | 8 |
| | 1976 | 2 | 7 | 0 | 5 | 1 | 0 | 1 | 16 | 0 |
| | 1977 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 5 | 3 |
| | 1978 | 2 | 4 | 1 | 0 | 0 | 0 | 5 | 4 | 5 |
| | 1979 | 0 | 2 | 1 | 2 | 5 | 0 | 1 | 12 | 0 |
| | 1980 | 2 | 1 | 0 | 2 | 0 | 0 | 3 | 8 | 4 |
| 243 | *Brachycaudus helichrysi* | | | | | | | | | |
| | 1975 | 71 | 181 | 432 | 106 | 103 | 1148 | 635 | 1357 | 146 |
| | 1976 | 113 | 120 | 231 | 143 | 78 | 155 | 361 | 637 | 138 |
| | 1977 | 59 | 96 | 240 | 147 | 74 | 63 | 270 | 1321 | 754 |
| | 1978 | 23 | 414 | 92 | 185 | 142 | 524 | 590 | 625 | 747 |
| | 1979 | 59 | 58 | 57 | 9 | 44 | 120 | 315 | 1083 | 149 |
| | 1980 | 92 | 242 | 197 | 82 | 172 | 391 | 446 | 808 | 718 |
| 245 | *Brachycaudus klugkisti* | | | | | | | | | |
| | 1975 | 0 | 0 | 1 | 0 | 0 | 5 | 2 | 2 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 9 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 |
| 249 | *Brachycaudus persicae* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 |
| | 1976 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 1980 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 253 | *Thuleaphis rumexicolens* | | | | | | | | | |
| | 1975 | 3 | 2 | 10 | 5 | 7 | 5 | 7 | 123 | 0 |
| | 1976 | 9 | 7 | 15 | 13 | 37 | 74 | 170 | 900 | 10 |
| | 1977 | 2 | 0 | 0 | 1 | 0 | 3 | 2 | 121 | 0 |
| | 1978 | 2 | 1 | 1 | 0 | 3 | 2 | 2 | 28 | 0 |
| | 1979 | 8 | 3 | 0 | 0 | 2 | 11 | 1 | 8 | 0 |
| | 1980 | 13 | 10 | 0 | 0 | 0 | 1 | 2 | 0 | 0 |
| 259 | *Diuraphis muehlei* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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2(I)

| Broom's Barn | Hereford | Rothamsted | Writtle | Long Ashton | Silwood Park | Wye, Kent | Starcross | Rosewarne | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 904 | 917 | 901 | 924 | 914 | 908 | 903 | 913 | 910 | | |
| | | | | | | | | | 241 | *Brachycaudus cardui* |
| 8 | 14 | 8 | 10 | 27 | 22 | 3 | 4 | 6 | | 1975 |
| 14 | 8 | 6 | 8 | 9 | 7 | 5 | 5 | 2 | | 1976 |
| 3 | 7 | 20 | 4 | 17 | 25 | 15 | 13 | 2 | | 1977 |
| 1 | 8 | 5 | 6 | 15 | 9 | 0 | 4 | 0 | | 1978 |
| 4 | 1 | 0 | 2 | 7 | 3 | 5 | 2 | 0 | | 1979 |
| 0 | 8 | 1 | 8 | 10 | 17 | 5 | 6 | 0 | | 1980 |
| | | | | | | | | | 243 | *Brachycaudus helichrysi* |
| 1428 | 1129 | 1178 | 2293 | 760 | 1202 | 1815 | 383 | 216 | | 1975 |
| 227 | 734 | 416 | 465 | 960 | 445 | 607 | 327 | 360 | | 1976 |
| 921 | 597 | 1083 | 1306 | 428 | 855 | 593 | 550 | 109 | | 1977 |
| 728 | 1210 | 971 | 1296 | 1649 | 943 | 1240 | 408 | 105 | | 1978 |
| 899 | 2054 | 473 | 656 | 723 | 466 | 421 | 166 | 129 | | 1979 |
| 1919 | 622 | 1626 | 2737 | 1085 | 713 | 1359 | 475 | 101 | | 1980 |
| | | | | | | | | | 245 | *Brachycaudus klugkisti* |
| — | 1 | 0 | 1 | 5 | 1 | 3 | 4 | 9 | | 1975 |
| — | 1 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | | 1976 |
| — | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 1 | | 1977 |
| — | 1 | 0 | 2 | 1 | 1 | 1 | 0 | 2 | | 1978 |
| — | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | | 1979 |
| — | 4 | 0 | 0 | 4 | 2 | 0 | 16 | 8 | | 1980 |
| | | | | | | | | | 249 | *Brachycaudus persicae* |
| — | 0 | 3 | 5 | 4 | 20 | 4 | 2 | 1 | | 1975 |
| — | 0 | 5 | 11 | 0 | 7 | 0 | 4 | 0 | | 1976 |
| — | 1 | 4 | 4 | 1 | 13 | 2 | 6 | 1 | | 1977 |
| — | 2 | 5 | 5 | 2 | 10 | 1 | 0 | 0 | | 1978 |
| — | 0 | 2 | 2 | 0 | 1 | 1 | 0 | 0 | | 1979 |
| — | 2 | 8 | 21 | 2 | 11 | 5 | 0 | 0 | | 1980 |
| | | | | | | | | | 253 | *Thuleaphis rumexicolens* |
| — | 15 | 60 | 157 | 86 | 136 | 10 | 21 | 3 | | 1975 |
| — | 36 | 193 | 424 | 47 | 269 | 55 | 21 | 10 | | 1976 |
| — | 13 | 33 | 106 | 59 | 30 | 17 | 24 | 10 | | 1977 |
| — | 4 | 12 | 13 | 7 | 28 | 17 | 13 | 0 | | 1978 |
| — | 4 | 9 | 79 | 4 | 10 | 10 | 3 | 0 | | 1979 |
| — | 0 | 10 | 37 | 2 | 7 | 2 | 1 | 0 | | 1980 |
| | | | | | | | | | 259 | *Diuraphis muehlei* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| — | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | | 1976 |
| — | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| — | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | | 1978 |
| — | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |



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TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 261 | *Hayhurstia atriplicis* | | | | | | | | | |
| | 1975 | 41 | 19 | 2 | 1 | 1 | 3 | 1 | 0 | 4 |
| | 1976 | 33 | 4 | 1 | 1 | 11 | 7 | 23 | 61 | 77 |
| | 1977 | 9 | 5 | 0 | 0 | 3 | 18 | 24 | 102 | 0 |
| | 1978 | 10 | 7 | 2 | 4 | 2 | 2 | 2 | 3 | 1 |
| | 1979 | 0 | 2 | 0 | 0 | 0 | 11 | 2 | 10 | 0 |
| | 1980 | 0 | 6 | 0 | 0 | 0 | 1 | 6 | 22 | 0 |
| 264 | *Brevicoryne brassicae* | | | | | | | | | |
| | 1975 | 4 | 31 | 22 | 6 | 1 | 5 | 24 | 218 | 13 |
| | 1976 | 465 | 50 | 24 | 50 | 18 | 88 | 31 | 1810 | 37 |
| | 1977 | 0 | 1 | 3 | 1 | 2 | 3 | 20 | 15 | 71 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 8 | 7 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 1980 | 0 | 37 | 2 | 0 | 0 | 2 | 0 | 70 | 15 |
| 267 | *Lipaphis erysimi* | | | | | | | | | |
| | 1975 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| | 1976 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 |
| | 1977 | 3 | 23 | 1 | 1 | 0 | 0 | 1 | 2 | 0 |
| | 1978 | 136 | 7 | 1 | 0 | 0 | 1 | 0 | 0 | 1 |
| | 1979 | 36 | 9 | 18 | 0 | 0 | 1 | 3 | 34 | 1 |
| | 1980 | 16 | 3 | 12 | 0 | 0 | 2 | 2 | 0 | 0 |
| 269 | *Lipamyzodes matthiolae* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 271 | *Hyadaphis foeniculi* | | | | | | | | | |
| | 1975 | 4 | 15 | 39 | 5 | 20 | 28 | 19 | 140 | 10 |
| | 1976 | 113 | 24 | 66 | 6 | 74 | 48 | 49 | 94 | 13 |
| | 1977 | 1 | 0 | 3 | 1 | 0 | 2 | 6 | 37 | 2 |
| | 1978 | 1 | 0 | 3 | 1 | 1 | 2 | 4 | 7 | 0 |
| | 1979 | 0 | 0 | 0 | 1 | 3 | 0 | 2 | 14 | 0 |
| | 1980 | 0 | 1 | 5 | 0 | 0 | 1 | 6 | 6 | 0 |
| 273 | *Staegeriella necopinata* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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**2(m)**

| Broom's Barn | Hereford | Rothamsted | Writtle | Long Ashton | Silwood Park | Wye, Kent | Starcross | Rosewarne | |
|---|---|---|---|---|---|---|---|---|---|
| 904 | 917 | 901 | 924 | 914 | 908 | 903 | 913 | 910 | |
| | | | | | | | | | 261 *Hayhurstia atriplicis* |
| 0 | 21 | 0 | 0 | 4 | 1 | 5 | 18 | 0 | 1975 |
| 43 | 588 | 16 | 25 | 146 | 86 | 199 | 189 | 192 | 1976 |
| 4 | 156 | 13 | 26 | 141 | 26 | 2 | 27 | 1 | 1977 |
| 6 | 4 | 0 | 1 | 2 | 2 | 2 | 3 | 3 | 1978 |
| 351 | 70 | 24 | 48 | 10 | 10 | 30 | 167 | 7 | 1979 |
| 60 | 8 | 2 | 4 | 4 | 16 | 6 | 1 | 1 | 1980 |
| | | | | | | | | | 264 *Brevicoryne brassicae* |
| 258 | 431 | 405 | 1350 | 108 | 788 | 347 | 337 | 65 | 1975 |
| 232 | 475 | 365 | 643 | 407 | 1166 | 430 | 291 | 296 | 1976 |
| 70 | 11 | 5 | 49 | 20 | 7 | 3 | 117 | 1 | 1977 |
| 81 | 260 | 19 | 59 | 18 | 41 | 246 | 1185 | 25 | 1978 |
| 353 | 6 | 1 | 38 | 1 | 8 | 10 | 21 | 1 | 1979 |
| 109 | 31 | 14 | 65 | 42 | 63 | 14 | 76 | 4 | 1980 |
| | | | | | | | | | 267 *Lipaphis erysimi* |
| — | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1975 |
| — | 0 | 1 | 0 | 6 | 1 | 1 | 1 | 2 | 1976 |
| — | 0 | 6 | 0 | 1 | 0 | 1 | 1 | 0 | 1977 |
| — | 1 | 0 | 0 | 2 | 1 | 0 | 3 | 2 | 1978 |
| — | 32 | 8 | 0 | 8 | 15 | 37 | 61 | 0 | 1979 |
| — | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 1980 |
| | | | | | | | | | 269 *Lipamyzodes matthiolae* |
| — | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 1975 |
| — | 0 | 6 | 6 | 0 | 2 | 1 | 0 | 0 | 1976 |
| — | 1 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 1977 |
| — | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1979 |
| — | 0 | 0 | 8 | 0 | 1 | 4 | 0 | 0 | 1980 |
| | | | | | | | | | 271 *Hyadaphis foeniculi* |
| 142 | 106 | 122 | 230 | 216 | 161 | 89 | 96 | 47 | 1975 |
| 110 | 80 | 117 | 101 | 88 | 123 | 64 | 37 | 17 | 1976 |
| 70 | 16 | 39 | 94 | 30 | 55 | 57 | 51 | 5 | 1977 |
| 5 | 5 | 7 | 15 | 18 | 31 | 17 | 5 | 3 | 1978 |
| 3 | 4 | 14 | 22 | 44 | 21 | 52 | 6 | 1 | 1979 |
| 23 | 8 | 23 | 49 | 25 | 20 | 12 | 7 | 3 | 1980 |
| | | | | | | | | | 273 *Staegeriella necopinata* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1975 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1976 |
| — | 0 | 0 | 0 | 0 | 8 | 2 | 1 | 2 | 1977 |
| — | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1978 |
| — | 0 | 0 | 2 | 2 | 2 | 2 | 0 | 0 | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1980 |



*https://doi.org/10.23637/ERADOC-1-21* 

TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 275 | *Pseudacaudella rubida* | | | | | | | | | |
| | 1975 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 276 | *Hyalopteroides humilis* | | | | | | | | | |
| | 1975 | 1 | 0 | 4 | 0 | 0 | 2 | 3 | 15 | 1 |
| | 1976 | 0 | 6 | 6 | 0 | 3 | 0 | 3 | 16 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 1 | 1 | 11 | 16 | 0 |
| 283 | *Longicaudus trirhodus* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1979 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| | 1980 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |
| 286 | *Myzaphis rosarum* | | | | | | | | | |
| | 1975 | 0 | 2 | 2 | 0 | 0 | 1 | 2 | 8 | 4 |
| | 1976 | 1 | 2 | 3 | 0 | 0 | 3 | 0 | 30 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| | 1978 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| | 1980 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 7 |
| 287 | *Pentatrichopus fragaefolii* | | | | | | | | | |
| | 1975 | 4 | 153 | 1 | 0 | 0 | 1 | 1 | 5 | 0 |
| | 1976 | 12 | 0 | 1 | 0 | 0 | 0 | 0 | 4 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 |
| | 1980 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 289 | *Pentatrichopus tetrarhodus* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |



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| Broom's Barn 904 | Hereford 917 | Rothamsted 901 | Writtle 924 | Long Ashton 914 | Silwood Park 908 | Wye, Kent 903 | Starcross 913 | Rosewarne 910 | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 275 *Pseudacaudella rubida* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1975 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1977 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1980 |
| | | | | | | | | | 276 *Hyalopteroides humilis* |
| — | 2 | 3 | 0 | 0 | 14 | 0 | 0 | 0 | 1975 |
| — | 3 | 2 | 3 | 2 | 3 | 4 | 1 | 8 | 1976 |
| — | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1977 |
| — | 3 | 2 | 1 | 4 | 4 | 1 | 0 | 0 | 1978 |
| — | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1979 |
| — | 10 | 6 | 1 | 0 | 7 | 16 | 0 | 0 | 1980 |
| | | | | | | | | | 283 *Longicaudus trirhodus* |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1975 |
| 0 | 0 | 2 | 2 | 0 | 4 | 2 | 0 | 0 | 1976 |
| 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1977 |
| 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 1978 |
| 0 | 0 | 4 | 2 | 1 | 4 | 17 | 0 | 0 | 1979 |
| 0 | 1 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 1980 |
| | | | | | | | | | 286 *Myzaphis rosarum* |
| 3 | 2 | 13 | 15 | 11 | 11 | 6 | 4 | 6 | 1975 |
| 0 | 0 | 15 | 27 | 19 | 17 | 2 | 2 | 2 | 1976 |
| 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 1977 |
| 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 1978 |
| 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1979 |
| 0 | 0 | 1 | 4 | 1 | 1 | 2 | 0 | 0 | 1980 |
| | | | | | | | | | 287 *Pentatrichopus fragaefolii* |
| 0 | 4 | 0 | 1 | 4 | 1 | 0 | 5 | 0 | 1975 |
| 0 | 2 | 3 | 4 | 8 | 2 | 0 | 3 | 1 | 1976 |
| 0 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 1977 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1978 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1979 |
| 0 | 0 | 0 | 8 | 0 | 0 | 0 | 5 | 1 | 1980 |
| | | | | | | | | | 289 *Pentatrichopus tetrarhodus* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1975 |
| — | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1977 |
| — | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1979 |
| — | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1980 |



*https://doi.org/10.23637/ERADOC-1-21* 

TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 290 | *Elatobium abietinum* | | | | | | | | | |
| | 1975 | 475 | 304 | 131 | 103 | 156 | 32 | 111 | 20 | 1821 |
| | 1976 | 471 | 93 | 106 | 173 | 284 | 162 | 8 | 12 | 631 |
| | 1977 | 11 | 19 | 7 | 45 | 82 | 0 | 98 | 2 | 887 |
| | 1978 | 1 | 18 | 31 | 106 | 11 | 30 | 55 | 20 | 307 |
| | 1979 | 34 | 5 | 5 | 81 | 3 | 2 | 3 | 2 | 1061 |
| | 1980 | 2116 | 705 | 952 | 2765 | 1393 | 149 | 79 | 22 | 2391 |
| 291 | *Liosomaphis berberidis* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 |
| | 1976 | 2 | 1 | 2 | 0 | 0 | 2 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 8 |
| 292 | *Cavariella aegopodii* | | | | | | | | | |
| | 1975 | 26 | 18 | 33 | 8 | 11 | 69 | 64 | 104 | 7 |
| | 1976 | 162 | 93 | 232 | 41 | 187 | 282 | 676 | 220 | 104 |
| | 1977 | 456 | 40 | 43 | 26 | 26 | 68 | 472 | 1016 | 127 |
| | 1978 | 11 | 70 | 21 | 20 | 68 | 125 | 141 | 520 | 55 |
| | 1979 | 217 | 191 | 86 | 14 | 104 | 451 | 464 | 2930 | 28 |
| | 1980 | 10 | 20 | 14 | 7 | 14 | 11 | 92 | 54 | 12 |
| 293 | *Cavariella archangelicae* | | | | | | | | | |
| | 1975 | 0 | 13 | 6 | 29 | 2 | 1 | 46 | 3 | 1 |
| | 1976 | 4 | 10 | 5 | 3 | 3 | 0 | 10 | 3 | 1 |
| | 1977 | 3 | 9 | 0 | 8 | 4 | 2 | 48 | 4 | 24 |
| | 1978 | 0 | 6 | 1 | 19 | 15 | 1 | 49 | 10 | 22 |
| | 1979 | 0 | 5 | 0 | 5 | 4 | 5 | 37 | 59 | 9 |
| | 1980 | 5 | 14 | 22 | 13 | 12 | 4 | 29 | 2 | 10 |
| 295 | *Cavariella konoi* | | | | | | | | | |
| | 1975 | 0 | 0 | 2 | 1 | 0 | 0 | 2 | 0 | 0 |
| | 1976 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | 0 |
| | 1977 | 0 | 1 | 0 | 2 | 1 | 0 | 3 | 0 | 0 |
| | 1978 | 6 | 2 | 2 | 1 | 1 | 0 | 4 | 2 | 1 |
| | 1979 | 0 | 4 | 1 | 1 | 2 | 4 | 84 | 76 | 10 |
| | 1980 | 0 | 7 | 21 | 6 | 1 | 0 | 12 | 2 | 0 |
| 296 | *Cavariella pastinacae* | | | | | | | | | |
| | 1975 | 12 | 6 | 6 | 16 | 4 | 6 | 43 | 9 | 8 |
| | 1976 | 18 | 201 | 59 | 45 | 127 | 191 | 222 | 23 | 22 |
| | 1977 | 8 | 30 | 55 | 30 | 11 | 6 | 165 | 312 | 139 |
| | 1978 | 65 | 147 | 47 | 44 | 122 | 96 | 172 | 310 | 42 |
| | 1979 | 10 | 100 | 164 | 37 | 163 | 1002 | 270 | 2432 | 47 |
| | 1980 | 36 | 96 | 73 | 12 | 38 | 3 | 50 | 6 | 5 |



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2(o)

| Broom's Barn | Hereford | Rothamsted | Writtle | Long Ashton | Silwood Park | Wye, Kent | Starcross | Rosewarne | |
|---|---|---|---|---|---|---|---|---|---|
| 904 | 917 | 901 | 924 | 914 | 908 | 903 | 913 | 910 | |
| | | | | | | | | | 290 *Elatobium abietinum* |
| 12 | 180 | 19 | 11 | 111 | 86 | 60 | 84 | 58 | 1975 |
| 6 | 163 | 42 | 8 | 57 | 237 | 178 | 76 | 6 | 1976 |
| 3 | 14 | 2 | 0 | 10 | 75 | 5 | 17 | 12 | 1977 |
| 46 | 118 | 91 | 20 | 150 | 789 | 122 | 24 | 49 | 1978 |
| 7 | 18 | 6 | 4 | 11 | 35 | 25 | 22 | 26 | 1979 |
| 17 | 741 | 37 | 26 | 381 | 153 | 179 | 184 | 85 | 1980 |
| | | | | | | | | | 291 *Liosomaphis berberidis* |
| 0 | 0 | 0 | 0 | 4 | 0 | 0 | 2 | 0 | 1975 |
| 3 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 1976 |
| 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1977 |
| 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1978 |
| 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1979 |
| 0 | 2 | 0 | 0 | 2 | 3 | 6 | 1 | 0 | 1980 |
| | | | | | | | | | 292 *Cavariella aegopodii* |
| 126 | 9 | 49 | 252 | 31 | 69 | 94 | 63 | 26 | 1975 |
| 569 | 334 | 166 | 256 | 295 | 316 | 467 | 364 | 27 | 1976 |
| 976 | 865 | 807 | 1803 | 453 | 1771 | 461 | 928 | 169 | 1977 |
| 250 | 292 | 273 | 396 | 135 | 167 | 305 | 52 | 20 | 1978 |
| 631 | 1417 | 822 | 762 | 767 | 1055 | 634 | 82 | 14 | 1979 |
| 161 | 63 | 81 | 159 | 281 | 128 | 145 | 77 | 15 | 1980 |
| | | | | | | | | | 293 *Cavariella archangelicae* |
| 0 | 3 | 0 | 2 | 4 | 1 | 1 | 5 | 34 | 1975 |
| 0 | 0 | 4 | 0 | 3 | 7 | 8 | 2 | 0 | 1976 |
| 0 | 8 | 4 | 3 | 2 | 5 | 4 | 5 | 1 | 1977 |
| 0 | 15 | 1 | 6 | 8 | 6 | 5 | 2 | 1 | 1978 |
| 4 | 70 | 12 | 8 | 21 | 34 | 43 | 7 | 0 | 1979 |
| 0 | 3 | 0 | 0 | 3 | 7 | 3 | 3 | 5 | 1980 |
| | | | | | | | | | 295 *Cavariella konoi* |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1975 |
| 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1976 |
| 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 1977 |
| 0 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1978 |
| 0 | 185 | 6 | 5 | 12 | 0 | 21 | 1 | 0 | 1979 |
| 0 | 0 | 0 | 2 | 2 | 0 | 6 | 3 | 1 | 1980 |
| | | | | | | | | | 296 *Cavariella pastinacae* |
| 22 | 5 | 4 | 27 | 7 | 8 | 17 | 1 | 0 | 1975 |
| 10 | 133 | 8 | 12 | 76 | 6 | 55 | 6 | 2 | 1976 |
| 301 | 317 | 598 | 418 | 370 | 512 | 199 | 104 | 25 | 1977 |
| 269 | 350 | 92 | 147 | 123 | 53 | 77 | 50 | 11 | 1978 |
| 2262 | 1821 | 435 | 615 | 520 | 557 | 277 | 80 | 5 | 1979 |
| 7 | 24 | 10 | 16 | 31 | 12 | 64 | 4 | 2 | 1980 |



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TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 298 | *Cavariella theobaldi* | | | | | | | | | |
| | 1975 | 1 | 8 | 12 | 5 | 3 | 2 | 6 | 8 | 3 |
| | 1976 | 19 | 80 | 31 | 18 | 92 | 105 | 55 | 128 | 39 |
| | 1977 | 12 | 21 | 36 | 15 | 20 | 22 | 76 | 620 | 119 |
| | 1978 | 18 | 48 | 8 | 8 | 17 | 20 | 62 | 205 | 32 |
| | 1979 | 12 | 29 | 32 | 11 | 27 | 41 | 32 | 417 | 29 |
| | 1980 | 4 | 14 | 12 | 3 | 5 | 0 | 7 | 2 | 1 |
| 300 | *Jacksonia papillata* | | | | | | | | | |
| | 1975 | 1 | 0 | 2 | 2 | 3 | 1 | 1 | 1 | 1 |
| | 1976 | 1 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 1 | 1 | 4 | 9 | 2 | 0 | 0 | 2 |
| 301 | *Ovatus crataegarius* | | | | | | | | | |
| | 1975 | 1 | 0 | 11 | 2 | 0 | 1 | 21 | 26 | 2 |
| | 1976 | 2 | 2 | 14 | 2 | 11 | 6 | 4 | 67 | 0 |
| | 1977 | 1 | 0 | 0 | 0 | 2 | 0 | 4 | 19 | 0 |
| | 1978 | 0 | 6 | 0 | 0 | 0 | 2 | 8 | 1 | 0 |
| | 1979 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 18 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 16 | 0 |
| 303 | *Ovatus insitus* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 37 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 306 | *Ovatomyzus calaminthae* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 307 | *Ovatomyzus stachyos* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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2(p)

| Broom's Barn | Hereford | Rothamsted | Writtle | Long Ashton | Silwood Park | Wye, Kent | Starcross | Rosewarne | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 904 | 917 | 901 | 924 | 914 | 908 | 903 | 913 | 910 | | |
| | | | | | | | | | 298 | *Cavariella theobaldi* |
| 24 | 7 | 10 | 23 | 14 | 9 | 21 | 13 | 12 | | 1975 |
| 36 | 247 | 34 | 59 | 69 | 16 | 84 | 11 | 0 | | 1976 |
| 558 | 180 | 1038 | 1040 | 345 | 654 | 290 | 333 | 87 | | 1977 |
| 57 | 120 | 20 | 20 | 31 | 22 | 36 | 14 | 18 | | 1978 |
| 103 | 242 | 88 | 57 | 145 | 107 | 65 | 20 | 17 | | 1979 |
| 4 | 1 | 5 | 6 | 21 | 11 | 24 | 5 | 2 | | 1980 |
| | | | | | | | | | 300 | *Jacksonia papillata* |
| 0 | 2 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | | 1975 |
| 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | | 1976 |
| 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | | 1977 |
| 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | | 1978 |
| 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | | 1979 |
| 2 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 301 | *Ovatus crataegarius* |
| 6 | 4 | 12 | 8 | 27 | 13 | 6 | 0 | 6 | | 1975 |
| 8 | 4 | 12 | 38 | 43 | 29 | 10 | 0 | 6 | | 1976 |
| 76 | 10 | 22 | 53 | 46 | 23 | 22 | 4 | 3 | | 1977 |
| 14 | 2 | 8 | 5 | 33 | 12 | 12 | 12 | 2 | | 1978 |
| 6 | 13 | 8 | 12 | 47 | 19 | 23 | 0 | 2 | | 1979 |
| 2 | 2 | 6 | 5 | 6 | 19 | 6 | 1 | 1 | | 1980 |
| | | | | | | | | | 303 | *Ovatus insitus* |
| — | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| — | 0 | 0 | 10 | 1 | 1 | 10 | 0 | 0 | | 1976 |
| — | 4 | 32 | 103 | 14 | 58 | 20 | 6 | 1 | | 1977 |
| — | 1 | 0 | 3 | 7 | 2 | 9 | 3 | 0 | | 1978 |
| — | 2 | 0 | 0 | 4 | 10 | 13 | 1 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 306 | *Ovatomyzus calaminthae* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| — | 0 | 0 | 0 | 5 | 4 | 0 | 0 | 0 | | 1976 |
| — | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | | 1977 |
| — | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 307 | *Ovatomyzus stachyos* |
| — | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | | 1975 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1976 |
| — | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | | 1977 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1979 |
| — | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | | 1980 |



*https://doi.org/10.23637/ERADOC-1-21* 

TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 308 | *Phorodon humuli* | | | | | | | | | |
| | 1975 | 0 | 11 | 6 | 0 | 1 | 0 | 0 | 44 | 5 |
| | 1976 | 1 | 15 | 3 | 1 | 2 | 8 | 8 | 184 | 22 |
| | 1977 | 0 | 3 | 9 | 2 | 0 | 4 | 20 | 825 | 150 |
| | 1978 | 0 | 17 | 8 | 3 | 11 | 110 | 13 | 207 | 50 |
| | 1979 | 0 | 4 | 2 | 0 | 12 | 39 | 5 | 905 | 10 |
| | 1980 | 0 | 21 | 5 | 1 | 0 | 13 | 15 | 74 | 32 |
| 309 | *Rhopalomyzus poae* | | | | | | | | | |
| | 1975 | 2 | 5 | 8 | 2 | 1 | 0 | 0 | 5 | 1 |
| | 1976 | 5 | 8 | 4 | 0 | 0 | 0 | 0 | 22 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 |
| | 1978 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 4 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 1 | 1 | 6 | 0 | 2 | 0 |
| 310 | *Rhopalomyzus lonicerae* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 3 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 9 | 0 |
| | 1980 | 0 | 1 | 0 | 0 | 2 | 0 | 20 | 6 | 0 |
| 311 | *Myzodium modestum* | | | | | | | | | |
| | 1975 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 1 | 1 | 3 | 0 | 1 | 1 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| | 1979 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 312 | *Myzus cerasi* | | | | | | | | | |
| | 1975 | 16 | 20 | 19 | 9 | 4 | 8 | 19 | 85 | 1 |
| | 1976 | 77 | 157 | 48 | 23 | 34 | 5 | 24 | 68 | 14 |
| | 1977 | 23 | 18 | 24 | 24 | 3 | 4 | 23 | 86 | 34 |
| | 1978 | 12 | 185 | 38 | 29 | 20 | 6 | 58 | 61 | 0 |
| | 1979 | 24 | 112 | 84 | 45 | 52 | 38 | 132 | 524 | 7 |
| | 1980 | 22 | 169 | 56 | 31 | 23 | 15 | 116 | 43 | 6 |
| 314 | *Myzus lythri* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 1 | 1 | 2 | 1 | 1 | 4 | 2 | 1 | 2 |
| | 1977 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 31 | 0 |
| | 1978 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 4 | 0 |
| | 1979 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 5 | 0 |
| | 1980 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 4 | 1 |



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2(q)

| Broom's Barn 904 | Hereford 917 | Rothamsted 901 | Writtle 924 | Long Ashton 914 | Silwood Park 908 | Wye, Kent 903 | Starcross 913 | Rosewarne 910 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 308 | *Phorodon humuli* |
| 36 | 471 | 42 | 144 | 140 | 105 | 732 | 20 | 1 | | 1975 |
| 297 | 1214 | 128 | 518 | 692 | 354 | 1317 | 13 | 0 | | 1976 |
| 4719 | 3566 | 3682 | 13815 | 876 | 3008 | 2239 | 726 | 5 | | 1977 |
| 215 | 2018 | 197 | 318 | 184 | 297 | 792 | 64 | 5 | | 1978 |
| 518 | 3223 | 455 | 526 | 494 | 818 | 1896 | 62 | 2 | | 1979 |
| 137 | 546 | 61 | 231 | 115 | 159 | 742 | 18 | 2 | | 1980 |
| | | | | | | | | | 309 | *Rhopalomyzus poae* |
| — | 1 | 4 | 1 | 2 | 12 | 1 | 4 | 0 | | 1975 |
| — | 0 | 10 | 8 | 4 | 34 | 4 | 5 | 1 | | 1976 |
| — | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | | 1977 |
| — | 0 | 0 | 1 | 0 | 3 | 4 | 0 | 1 | | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | | 1979 |
| — | 0 | 0 | 2 | 14 | 3 | 1 | 3 | 1 | | 1980 |
| | | | | | | | | | 310 | *Rhopalomyzus lonicerae* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1976 |
| — | 4 | 0 | 3 | 5 | 0 | 4 | 0 | 0 | | 1977 |
| — | 37 | 3 | 2 | 63 | 2 | 3 | 13 | 0 | | 1978 |
| — | 7 | 2 | 0 | 4 | 1 | 0 | 1 | 0 | | 1979 |
| — | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 1 | | 1980 |
| | | | | | | | | | 311 | *Myzodium modestum* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| — | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1978 |
| — | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 312 | *Myzus cerasi* |
| 24 | 36 | 37 | 52 | 47 | 36 | 45 | 42 | 9 | | 1975 |
| 11 | 64 | 18 | 77 | 106 | 54 | 249 | 67 | 8 | | 1976 |
| 67 | 78 | 85 | 308 | 156 | 276 | 351 | 182 | 29 | | 1977 |
| 49 | 39 | 77 | 33 | 60 | 119 | 76 | 26 | 7 | | 1978 |
| 388 | 403 | 421 | 429 | 259 | 641 | 776 | 106 | 8 | | 1979 |
| 20 | 15 | 34 | 56 | 51 | 70 | 46 | 35 | 9 | | 1980 |
| | | | | | | | | | 314 | *Myzus lythri* |
| — | 0 | 0 | 2 | 2 | 4 | 0 | 0 | 0 | | 1975 |
| — | 4 | 13 | 24 | 19 | 6 | 23 | 23 | 2 | | 1976 |
| — | 6 | 9 | 18 | 4 | 15 | 20 | 15 | 7 | | 1977 |
| — | 2 | 2 | 4 | 10 | 7 | 9 | 4 | 2 | | 1978 |
| — | 2 | 0 | 1 | 0 | 6 | 0 | 8 | 2 | | 1979 |
| — | 0 | 2 | 8 | 2 | 2 | 4 | 2 | 0 | | 1980 |



*https://doi.org/10.23637/ERADOC-1-21* 

TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 315 | *Myzus ornatus* | | | | | | | | | |
| | 1975 | 3 | 9 | 27 | 5 | 7 | 1 | 17 | 31 | 8 |
| | 1976 | 6 | 5 | 52 | 6 | 6 | 1 | 3 | 11 | 4 |
| | 1977 | 1 | 4 | 3 | 1 | 0 | 1 | 0 | 5 | 9 |
| | 1978 | 0 | 1 | 2 | 1 | 1 | 0 | 2 | 2 | 11 |
| | 1979 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 1980 | 0 | 1 | 9 | 0 | 4 | 0 | 2 | 4 | 14 |
| 318 | *Myzus ascalonicus* | | | | | | | | | |
| | 1975 | 16 | 14 | 58 | 74 | 47 | 86 | 106 | 251 | 53 |
| | 1976 | 56 | 15 | 93 | 6 | 40 | 27 | 22 | 250 | 9 |
| | 1977 | 0 | 0 | 4 | 3 | 5 | 0 | 2 | 19 | 6 |
| | 1978 | 0 | 6 | 16 | 15 | 12 | 6 | 31 | 74 | 0 |
| | 1979 | 2 | 0 | 19 | 0 | 2 | 2 | 6 | 14 | 7 |
| | 1980 | 24 | 2 | 42 | 26 | 71 | 96 | 30 | 176 | 19 |
| 319 | *Myzus certus* | | | | | | | | | |
| | 1975 | 5 | 16 | 33 | 4 | 39 | 51 | 52 | 234 | 17 |
| | 1976 | 6 | 10 | 30 | 7 | 4 | 11 | 30 | 123 | 3 |
| | 1977 | 2 | 1 | 4 | 2 | 0 | 0 | 8 | 15 | 1 |
| | 1978 | 0 | 3 | 4 | 3 | 3 | 2 | 3 | 2 | 12 |
| | 1979 | 0 | 5 | 1 | 0 | 1 | 2 | 5 | 6 | 5 |
| | 1980 | 0 | 2 | 18 | 2 | 0 | 2 | 6 | 7 | 14 |
| 320 | *Myzus ligustri* | | | | | | | | | |
| | 1975 | 0 | 3 | 5 | 4 | 4 | 3 | 10 | 17 | 0 |
| | 1976 | 1 | 6 | 36 | 2 | 1 | 5 | 21 | 26 | 0 |
| | 1977 | 0 | 1 | 4 | 1 | 0 | 0 | 2 | 4 | 0 |
| | 1978 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 322 | *Myzus persicae* | | | | | | | | | |
| | 1975 | 89 | 292 | 580 | 84 | 197 | 153 | 68 | 926 | 71 |
| | 1976 | 75 | 231 | 97 | 86 | 84 | 76 | 286 | 3964 | 100 |
| | 1977 | 109 | 96 | 27 | 28 | 16 | 5 | 129 | 142 | 82 |
| | 1978 | 9 | 42 | 19 | 21 | 9 | 6 | 80 | 132 | 43 |
| | 1979 | 3 | 97 | 11 | 5 | 6 | 59 | 51 | 245 | 12 |
| | 1980 | 2 | 20 | 16 | 7 | 9 | 19 | 37 | 222 | 22 |
| 740 | *Myzus varians* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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**2(r)**

| Broom's Barn | Hereford | Rothamsted | Writtle | Long Ashton | Silwood Park | Wye, Kent | Starcross | Rosewarne | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 904 | 917 | 901 | 924 | 914 | 908 | 903 | 913 | 910 | | |
| | | | | | | | | | 315 | *Myzus ornatus* |
| 6 | 8 | 44 | 25 | 101 | 37 | 10 | 48 | 12 | | 1975 |
| 1 | 4 | 12 | 10 | 39 | 27 | 4 | 33 | 22 | | 1976 |
| 0 | 1 | 5 | 2 | 6 | 11 | 0 | 3 | 5 | | 1977 |
| 1 | 1 | 2 | 3 | 12 | 6 | 1 | 3 | 0 | | 1978 |
| 0 | 0 | 4 | 0 | 1 | 4 | 0 | 1 | 1 | | 1979 |
| 0 | 2 | 8 | 13 | 42 | 15 | 3 | 18 | 2 | | 1980 |
| | | | | | | | | | 318 | *Myzus ascalonicus* |
| 78 | 217 | 141 | 68 | 119 | 128 | 55 | 26 | 31 | | 1975 |
| 37 | 84 | 149 | 60 | 48 | 164 | 34 | 25 | 15 | | 1976 |
| 14 | 7 | 14 | 15 | 3 | 20 | 11 | 4 | 7 | | 1977 |
| 47 | 28 | 54 | 30 | 52 | 76 | 22 | 8 | 15 | | 1978 |
| 13 | 3 | 7 | 13 | 11 | 16 | 7 | 7 | 10 | | 1979 |
| 87 | 92 | 179 | 131 | 140 | 185 | 103 | 85 | 34 | | 1980 |
| | | | | | | | | | 319 | *Myzus certus* |
| 40 | 67 | 34 | 43 | 55 | 81 | 25 | 12 | 14 | | 1975 |
| 14 | 149 | 26 | 34 | 97 | 89 | 40 | 49 | 3 | | 1976 |
| 1 | 8 | 9 | 9 | 19 | 22 | 6 | 26 | 2 | | 1977 |
| 8 | 2 | 1 | 11 | 2 | 6 | 3 | 2 | 5 | | 1978 |
| 5 | 0 | 0 | 7 | 3 | 1 | 7 | 1 | 4 | | 1979 |
| 8 | 9 | 7 | 10 | 10 | 24 | 9 | 4 | 4 | | 1980 |
| | | | | | | | | | 320 | *Myzus ligustri* |
| — | 5 | 13 | 9 | 17 | 19 | 7 | 3 | 2 | | 1975 |
| — | 8 | 12 | 15 | 12 | 34 | 6 | 8 | 2 | | 1976 |
| — | 3 | 1 | 0 | 0 | 9 | 0 | 2 | 0 | | 1977 |
| — | 0 | 0 | 0 | 2 | 1 | 2 | 0 | 0 | | 1978 |
| — | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | | 1979 |
| — | 0 | 0 | 2 | 0 | 5 | 4 | 0 | 0 | | 1980 |
| | | | | | | | | | 322 | *Myzus persicae* |
| 585 | 234 | 586 | 158 | 205 | 354 | 100 | 101 | 15 | | 1975 |
| 1107 | 193 | 913 | 1526 | 210 | 463 | 534 | 58 | 36 | | 1976 |
| 73 | 421 | 159 | 173 | 225 | 115 | 124 | 345 | 83 | | 1977 |
| 127 | 109 | 52 | 151 | 54 | 53 | 303 | 201 | 36 | | 1978 |
| 450 | 37 | 110 | 123 | 27 | 30 | 323 | 30 | 16 | | 1979 |
| 209 | 35 | 58 | 200 | 71 | 82 | 156 | 19 | 20 | | 1980 |
| | | | | | | | | | 740 | *Myzus varians* |
| — | 0 | 0 | 1 | 4 | 1 | 0 | 0 | 0 | | 1975 |
| — | 4 | 2 | 0 | 1 | 2 | 1 | 0 | 0 | | 1976 |
| — | 2 | 1 | 2 | 0 | 1 | 3 | 1 | 0 | | 1977 |
| — | 0 | 2 | 1 | 7 | 1 | 1 | 0 | 0 | | 1978 |
| — | 0 | 0 | 1 | 3 | 1 | 1 | 0 | 0 | | 1979 |
| — | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |



*https://doi.org/10.23637/ERADOC-1-21* 

TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 323 | *Myzus cymbalariellus* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 4 | 0 |
| | 1976 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 9 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 1 | 2 | 7 | 2 | 2 | 0 | 25 | 4 |
| 325 | *Tubaphis ranunculina* | | | | | | | | | |
| | 1975 | 1 | 2 | 2 | 1 | 2 | 0 | 16 | 74 | 5 |
| | 1976 | 0 | 0 | 3 | 3 | 1 | 1 | 10 | 0 | 1 |
| | 1977 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 8 |
| | 1978 | 0 | 1 | 0 | 2 | 1 | 0 | 1 | 0 | 4 |
| | 1979 | 5 | 0 | 1 | 1 | 9 | 0 | 0 | 0 | 1 |
| | 1980 | 2 | 1 | 1 | 0 | 2 | 0 | 5 | 2 | 3 |
| 327 | *Vesiculaphis theobaldi* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| | 1976 | 0 | 2 | 1 | 0 | 6 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 330 | *Aspidaphium escherichi* | | | | | | | | | |
| | 1975 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 2 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 0 |
| | 1977 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 5 | 0 | 2 | 0 | 2 | 3 | 0 | 0 | 0 |
| | 1979 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| | 1980 | 4 | 2 | 0 | 1 | 3 | 0 | 0 | 0 | 1 |
| 335 | *Cryptomyzus ballotae* | | | | | | | | | |
| | 1975 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 5 | 0 |
| | 1976 | 0 | 0 | 6 | 0 | 0 | 1 | 0 | 17 | 0 |
| | 1977 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 336 | *Cryptomyzus galeopsidis* | | | | | | | | | |
| | 1975 | 110 | 35 | 30 | 17 | 3 | 5 | 8 | 56 | 4 |
| | 1976 | 24 | 40 | 58 | 17 | 14 | 12 | 51 | 93 | 17 |
| | 1977 | 308 | 52 | 69 | 90 | 20 | 7 | 80 | 57 | 41 |
| | 1978 | 114 | 124 | 15 | 6 | 5 | 11 | 31 | 16 | 29 |
| | 1979 | 80 | 31 | 74 | 14 | 18 | 85 | 142 | 198 | 22 |
| | 1980 | 11 | 26 | 10 | 11 | 3 | 11 | 4 | 16 | 12 |



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2(s)

| Broom's Barn 904 | Hereford 917 | Rothamsted 901 | Writtle 924 | Long Ashton 914 | Silwood Park 908 | Wye, Kent 903 | Starcross 913 | Rosewarne 910 | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 323 *Myzus cymbalariellus* |
| — | 0 | 5 | 0 | 11 | 3 | 0 | 2 | 1 | 1975 |
| — | 0 | 1 | 1 | 16 | 4 | 0 | 3 | 2 | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1977 |
| — | 0 | 1 | 0 | 6 | 1 | 0 | 0 | 0 | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1979 |
| — | 3 | 17 | 19 | 25 | 41 | 9 | 6 | 0 | 1980 |
| | | | | | | | | | 325 *Tubaphis ranunculina* |
| — | 23 | 10 | 7 | 80 | 25 | 14 | 43 | 5 | 1975 |
| — | 4 | 0 | 3 | 13 | 5 | 0 | 14 | 34 | 1976 |
| — | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 1977 |
| — | 0 | 0 | 0 | 0 | 5 | 1 | 1 | 1 | 1978 |
| — | 1 | 0 | 0 | 0 | 1 | 2 | 1 | 3 | 1979 |
| — | 0 | 1 | 6 | 9 | 2 | 2 | 2 | 9 | 1980 |
| | | | | | | | | | 327 *Vesiculaphis theobaldi* |
| — | 1 | 0 | 2 | 0 | 3 | 3 | 1 | 0 | 1975 |
| — | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1977 |
| — | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1979 |
| — | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 1980 |
| | | | | | | | | | 330 *Aspidaphium escherichi* |
| — | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1975 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1977 |
| — | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 1 | 1978 |
| — | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1980 |
| | | | | | | | | | 335 *Cryptomyzus ballotae* |
| — | 1 | 3 | 20 | 3 | 8 | 1 | 1 | 1 | 1975 |
| — | 0 | 8 | 29 | 0 | 15 | 12 | 3 | 0 | 1976 |
| — | 0 | 0 | 7 | 0 | 7 | 0 | 1 | 0 | 1977 |
| — | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 1978 |
| — | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1979 |
| — | 0 | 0 | 6 | 0 | 3 | 0 | 13 | 0 | 1980 |
| | | | | | | | | | 336 *Crymptomyzus galeopsidis* |
| 14 | 48 | 11 | 17 | 41 | 18 | 26 | 4 | 7 | 1975 |
| 8 | 26 | 7 | 23 | 51 | 54 | 15 | 19 | 5 | 1976 |
| 11 | 23 | 21 | 37 | 15 | 10 | 22 | 17 | 13 | 1977 |
| 19 | 6 | 4 | 5 | 27 | 4 | 26 | 10 | 11 | 1978 |
| 115 | 41 | 47 | 21 | 19 | 24 | 72 | 20 | 7 | 1979 |
| 9 | 25 | 1 | 7 | 33 | 9 | 17 | 18 | 4 | 1980 |



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TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 339 | *Cryptomyzus korschelti* | | | | | | | | | |
| | 1975 | 1 | 0 | 0 | 1 | 0 | 0 | 3 | 2 | 1 |
| | 1976 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1977 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 340 | *Cryptomyzus ribis* | | | | | | | | | |
| | 1975 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 6 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 2 |
| | 1977 | 9 | 0 | 0 | 0 | 0 | 0 | 22 | 7 | 1 |
| | 1978 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 1 | 0 |
| | 1979 | 0 | 0 | 0 | 1 | 0 | 0 | 7 | 6 | 2 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 5 | 1 |
| 342 | *Capitophorus elaeagni* | | | | | | | | | |
| | 1975 | 0 | 2 | 4 | 0 | 1 | 0 | 1 | 0 | 0 |
| | 1976 | 4 | 3 | 4 | 0 | 8 | 3 | 1 | 8 | 1 |
| | 1977 | 0 | 1 | 0 | 1 | 1 | 0 | 8 | 12 | 0 |
| | 1978 | 6 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 5 |
| | 1979 | 1 | 0 | 0 | 2 | 3 | 0 | 3 | 4 | 0 |
| | 1980 | 0 | 6 | 0 | 0 | 2 | 0 | 5 | 2 | 0 |
| 343 | *Capitophorus hippophaes* | | | | | | | | | |
| | 1975 | 21 | 70 | 54 | 53 | 16 | 4 | 20 | 36 | 63 |
| | 1976 | 88 | 69 | 29 | 75 | 14 | 18 | 218 | 35 | 141 |
| | 1977 | 173 | 40 | 27 | 52 | 34 | 9 | 384 | 233 | 185 |
| | 1978 | 134 | 118 | 38 | 63 | 40 | 28 | 313 | 593 | 306 |
| | 1979 | 97 | 103 | 36 | 18 | 81 | 280 | 555 | 1236 | 129 |
| | 1980 | 10 | 70 | 9 | 20 | 15 | 4 | 60 | 57 | 31 |
| 344 | *Capitophorus horni* | | | | | | | | | |
| | 1975 | 0 | 1 | 4 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 5 | 0 |
| | 1977 | 0 | 0 | 4 | 0 | 0 | 0 | 1 | 1 | 0 |
| | 1978 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 |
| | 1980 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 346 | *Capitophorus similis* | | | | | | | | | |
| | 1975 | 8 | 31 | 25 | 8 | 4 | 3 | 31 | 44 | 10 |
| | 1976 | 3 | 39 | 32 | 17 | 11 | 6 | 75 | 25 | 7 |
| | 1977 | 9 | 105 | 107 | 62 | 62 | 8 | 71 | 175 | 0 |
| | 1978 | 4 | 49 | 63 | 18 | 19 | 7 | 45 | 72 | 0 |
| | 1979 | 7 | 117 | 137 | 21 | 37 | 14 | 49 | 65 | 0 |
| | 1980 | 2 | 60 | 40 | 15 | 15 | 6 | 10 | 27 | 1 |



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2(t)

| 904 Broom's Barn | 917 Hereford | 901 Rothamsted | 924 Writtle | 914 Long Ashton | 908 Silwood Park | 903 Wye, Kent | 913 Starcross | 910 Rosewarne | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 339 | *Cryptomyzus korschelti* |
| — | 7 | 2 | 9 | 11 | 7 | 4 | 10 | 9 | | 1975 |
| — | 0 | 0 | 0 | 3 | 8 | 2 | 2 | 0 | | 1976 |
| — | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| — | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | | 1978 |
| — | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | | 1979 |
| — | 0 | 1 | 0 | 6 | 1 | 0 | 5 | 0 | | 1980 |
| | | | | | | | | | 340 | *Cryptomyzus ribis* |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | | 1975 |
| 0 | 0 | 0 | 1 | 1 | 0 | 1 | 4 | 0 | | 1976 |
| 0 | 5 | 0 | 6 | 13 | 4 | 5 | 7 | 15 | | 1977 |
| 0 | 1 | 1 | 2 | 2 | 1 | 2 | 4 | 2 | | 1978 |
| 0 | 2 | 6 | 2 | 4 | 3 | 5 | 9 | 1 | | 1979 |
| 0 | 0 | 5 | 2 | 0 | 0 | 2 | 1 | 0 | | 1980 |
| | | | | | | | | | 342 | *Capitophorus elaeagni* |
| — | 0 | 1 | 1 | 7 | 1 | 2 | 10 | 4 | | 1975 |
| — | 6 | 3 | 40 | 6 | 8 | 65 | 12 | 3 | | 1976 |
| — | 0 | 0 | 10 | 2 | 2 | 11 | 4 | 1 | | 1977 |
| — | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | | 1978 |
| — | 4 | 9 | 4 | 3 | 6 | 12 | 1 | 1 | | 1979 |
| — | 2 | 1 | 4 | 2 | 2 | 6 | 6 | 1 | | 1980 |
| | | | | | | | | | 343 | *Capitophorus hippophaes* |
| 31 | 7 | 8 | 29 | 38 | 18 | 87 | 48 | 20 | | 1975 |
| 36 | 13 | 15 | 44 | 74 | 19 | 109 | 27 | 68 | | 1976 |
| 49 | 97 | 50 | 80 | 155 | 83 | 123 | 223 | 159 | | 1977 |
| 271 | 186 | 46 | 86 | 369 | 150 | 450 | 408 | 176 | | 1978 |
| 1541 | 138 | 213 | 263 | 124 | 111 | 491 | 53 | 28 | | 1979 |
| 44 | 12 | 17 | 84 | 35 | 17 | 101 | 16 | 23 | | 1980 |
| | | | | | | | | | 344 | *Capitophorus horni* |
| — | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| — | 2 | 0 | 0 | 4 | 1 | 2 | 0 | 0 | | 1976 |
| — | 0 | 0 | 6 | 1 | 0 | 0 | 2 | 0 | | 1977 |
| — | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | | 1978 |
| — | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1979 |
| — | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 346 | *Capitophorus similis* |
| 11 | 5 | 11 | 6 | 16 | 8 | 7 | 10 | 5 | | 1975 |
| 50 | 19 | 11 | 29 | 34 | 8 | 18 | 5 | 3 | | 1976 |
| 45 | 32 | 17 | 46 | 22 | 23 | 24 | 20 | 2 | | 1977 |
| 44 | 20 | 24 | 20 | 38 | 4 | 43 | 18 | 3 | | 1978 |
| 83 | 7 | 5 | 3 | 9 | 4 | 1 | 2 | 0 | | 1979 |
| 12 | 14 | 11 | 4 | 3 | 7 | 18 | 5 | 0 | | 1980 |



*https://doi.org/10.23637/ERADOC-1-21* 

TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 350 | *Pleotrichophorus glandulosus* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 354 | *Nasonovia pilosellae* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 4 | 0 |
| | 1977 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 355 | *Nasonovia ribisnigri* | | | | | | | | | |
| | 1975 | 17 | 6 | 11 | 3 | 3 | 3 | 3 | 30 | 3 |
| | 1976 | 18 | 11 | 14 | 10 | 1 | 6 | 6 | 29 | 23 |
| | 1977 | 47 | 0 | 6 | 1 | 3 | 1 | 7 | 49 | 56 |
| | 1978 | 6 | 10 | 8 | 2 | 3 | 4 | 8 | 15 | 28 |
| | 1979 | 8 | 2 | 5 | 0 | 2 | 23 | 9 | 26 | 27 |
| | 1980 | 6 | 4 | 11 | 1 | 3 | 4 | 4 | 11 | 17 |
| 358 | *Hyperomyzus lactucae* | | | | | | | | | |
| | 1975 | 5 | 9 | 36 | 5 | 12 | 62 | 15 | 149 | 32 |
| | 1976 | 23 | 42 | 69 | 5 | 24 | 41 | 38 | 47 | 21 |
| | 1977 | 7 | 15 | 11 | 2 | 7 | 7 | 9 | 108 | 42 |
| | 1978 | 1 | 17 | 5 | 7 | 12 | 7 | 18 | 63 | 17 |
| | 1979 | 8 | 31 | 16 | 6 | 17 | 40 | 27 | 209 | 25 |
| | 1980 | 2 | 42 | 11 | 1 | 4 | 5 | 28 | 17 | 11 |
| 359 | *Hyperomyzus lampsanae* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 360 | *Hyperomyzus pallidus* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| | 1976 | 0 | 2 | 0 | 0 | 0 | 6 | 3 | 0 | 1 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 15 | 1 |
| | 1978 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 6 | 0 | 0 | 0 | 38 | 2 | 24 | 0 |
| | 1980 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |



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**2(u)**

| Broom's Barn 904 | Hereford 917 | Rothamsted 901 | Writtle 924 | Long Ashton 914 | Silwood Park 908 | Wye, Kent 903 | Starcross 913 | Rosewarne 910 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 350 | *Pleotrichophorus glandulosus* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | | 1977 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1978 |
| — | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 354 | *Nasonovia pilosellae* |
| — | 0 | 0 | 0 | 2 | 4 | 0 | 2 | 0 | | 1975 |
| — | 0 | 0 | 1 | 2 | 1 | 0 | 1 | 2 | | 1976 |
| — | 1 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | | 1977 |
| — | 0 | 1 | 1 | 3 | 0 | 0 | 2 | 0 | | 1978 |
| — | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | | 1979 |
| — | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 355 | *Nasonovia ribisnigri* |
| 8 | 6 | 28 | 16 | 15 | 15 | 12 | 18 | 14 | | 1975 |
| 7 | 7 | 7 | 41 | 24 | 24 | 27 | 21 | 4 | | 1976 |
| 13 | 12 | 34 | 39 | 31 | 43 | 27 | 91 | 61 | | 1977 |
| 24 | 10 | 16 | 8 | 28 | 21 | 51 | 14 | 9 | | 1978 |
| 92 | 47 | 33 | 27 | 23 | 34 | 29 | 22 | 9 | | 1979 |
| 21 | 11 | 13 | 3 | 11 | 13 | 13 | 11 | 9 | | 1980 |
| | | | | | | | | | 358 | *Hyperomyzus lactucae* |
| 118 | 100 | 90 | 97 | 104 | 103 | 60 | 32 | 16 | | 1975 |
| 29 | 59 | 33 | 34 | 60 | 43 | 34 | 38 | 14 | | 1976 |
| 51 | 113 | 69 | 148 | 52 | 100 | 69 | 172 | 80 | | 1977 |
| 27 | 43 | 26 | 19 | 27 | 21 | 89 | 32 | 10 | | 1978 |
| 362 | 147 | 171 | 116 | 56 | 185 | 366 | 64 | 12 | | 1979 |
| 13 | 9 | 14 | 28 | 64 | 27 | 34 | 35 | 2 | | 1980 |
| | | | | | | | | | 395 | *Hyperomyzus lampsanae* |
| 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1976 |
| 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1978 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1979 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 360 | *Hyperomyzus pallidus* |
| 0 | 2 | 0 | 3 | 0 | 0 | 2 | 0 | 0 | | 1975 |
| 0 | 6 | 5 | 2 | 2 | 0 | 4 | 1 | 0 | | 1976 |
| 6 | 7 | 16 | 8 | 10 | 7 | 1 | 8 | 0 | | 1977 |
| 0 | 7 | 1 | 1 | 2 | 0 | 3 | 1 | 0 | | 1978 |
| 0 | 8 | 22 | 12 | 1 | 19 | 31 | 5 | 0 | | 1979 |
| 0 | 4 | 0 | 2 | 0 | 0 | 0 | 1 | 2 | | 1980 |



*https://doi.org/10.23637/ERADOC-1-21* 

TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 362 | *Neonasonovia picridis* | | | | | | | | | |
| | 1975 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 363 | *Hyperomyzella rhinanthi* | | | | | | | | | |
| | 1975 | 1 | 1 | 1 | 6 | 1 | 2 | 0 | 0 | 4 |
| | 1976 | 1 | 0 | 1 | 3 | 0 | 0 | 1 | 0 | 0 |
| | 1977 | 4 | 0 | 1 | 6 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 6 | 0 | 0 | 6 | 2 | 0 | 0 | 0 | 1 |
| | 1979 | 2 | 0 | 0 | 3 | 1 | 0 | 4 | 0 | 0 |
| | 1980 | 4 | 0 | 1 | 2 | 1 | 0 | 2 | 0 | 0 |
| 366 | *Rhopalosiphoninus latysiphon* | | | | | | | | | |
| | 1975 | 4 | 3 | 2 | 2 | 1 | 0 | 6 | 3 | 2 |
| | 1976 | 4 | 1 | 0 | 0 | 1 | 3 | 1 | 3 | 0 |
| | 1977 | 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| | 1978 | 3 | 5 | 1 | 0 | 2 | 0 | 0 | 1 | 3 |
| | 1979 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| | 1980 | 0 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 367 | *Rhopalosiphoninus ribesinus* | | | | | | | | | |
| | 1975 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| | 1980 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 368 | *Rhopalosiphoninus staphyleae* | | | | | | | | | |
| | 1975 | 1 | 4 | 4 | 2 | 2 | 11 | 15 | 10 | 6 |
| | 1976 | 9 | 8 | 8 | 7 | 2 | 6 | 7 | 64 | 2 |
| | 1977 | 1 | 0 | 0 | 1 | 0 | 1 | 3 | 4 | 7 |
| | 1978 | 2 | 1 | 0 | 1 | 0 | 0 | 2 | 1 | 2 |
| | 1979 | 0 | 0 | 0 | 1 | 8 | 0 | 0 | 4 | 0 |
| | 1980 | 2 | 4 | 3 | 2 | 2 | 2 | 5 | 4 | 3 |
| 372 | *Microlophium evansi* | | | | | | | | | |
| | 1975 | 1 | 1 | 2 | 19 | 3 | 77 | 197 | 1092 | 25 |
| | 1976 | 623 | 330 | 555 | 34 | 217 | 258 | 335 | 1376 | 284 |
| | 1977 | 1 | 0 | 1 | 2 | 7 | 0 | 22 | 115 | 14 |
| | 1978 | 0 | 19 | 0 | 0 | 3 | 1 | 3 | 16 | 7 |
| | 1979 | 16 | 0 | 0 | 1 | 0 | 0 | 25 | 8 | 1 |
| | 1980 | 0 | 3 | 2 | 10 | 15 | 50 | 139 | 1105 | 658 |



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2(v)

| Broom's Barn 904 | Hereford 917 | Rothamsted 901 | Writtle 924 | Long Ashton 914 | Silwood Park 908 | Wye, Kent 903 | Starcross 913 | Rosewarne 910 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 362 | *Neonasonovia picridis* |
| 0 | 3 | 2 | 8 | 1 | 9 | 8 | 0 | 0 | | 1975 |
| 0 | 0 | 0 | 7 | 2 | 0 | 3 | 0 | 0 | | 1976 |
| 0 | 0 | 0 | 16 | 1 | 1 | 1 | 6 | 0 | | 1977 |
| 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | | 1978 |
| 0 | 0 | 3 | 1 | 0 | 4 | 2 | 0 | 0 | | 1979 |
| 1 | 0 | 3 | 8 | 0 | 0 | 2 | 0 | 0 | | 1980 |
| | | | | | | | | | 363 | *Hyperomyzella rhinanthi* |
| — | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | | 1975 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 8 | | 1977 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | | 1978 |
| — | 0 | 0 | 0 | 0 | 8 | 18 | 0 | 0 | | 1979 |
| — | 6 | 0 | 2 | 4 | 2 | 2 | 0 | 1 | | 1980 |
| | | | | | | | | | 366 | *Rhopalosiphoninus latysiphon* |
| 4 | 1 | 0 | 5 | 1 | 1 | 5 | 1 | 3 | | 1975 |
| 1 | 6 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | | 1976 |
| 0 | 2 | 0 | 0 | 0 | 0 | 7 | 2 | 2 | | 1977 |
| 1 | 0 | 0 | 1 | 2 | 0 | 2 | 1 | 4 | | 1978 |
| 0 | 0 | 0 | 4 | 3 | 1 | 2 | 1 | 2 | | 1979 |
| 3 | 1 | 0 | 1 | 0 | 1 | 5 | 0 | 1 | | 1980 |
| | | | | | | | | | 367 | *Rhopalosiphoninus ribesinus* |
| — | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1978 |
| — | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | | 1979 |
| — | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 368 | *Rhopalosiphoninus staphyleae* |
| 9 | 15 | 7 | 4 | 25 | 9 | 14 | 2 | 8 | | 1975 |
| 10 | 5 | 0 | 17 | 5 | 3 | 3 | 2 | 3 | | 1976 |
| 12 | 3 | 2 | 10 | 10 | 8 | 4 | 7 | 3 | | 1977 |
| 3 | 4 | 5 | 2 | 6 | 23 | 3 | 2 | 3 | | 1978 |
| 4 | 0 | 0 | 0 | 2 | 4 | 1 | 0 | 0 | | 1979 |
| 0 | 0 | 1 | 1 | 8 | 21 | 4 | 2 | 2 | | 1980 |
| | | | | | | | | | 372 | *Microlophium evansi* |
| 909 | 621 | 316 | 611 | 711 | 612 | 306 | 207 | 11 | | 1975 |
| 212 | 324 | 149 | 1253 | 1319 | 840 | 637 | 197 | 148 | | 1976 |
| 216 | 150 | 38 | 240 | 33 | 60 | 113 | 123 | 98 | | 1977 |
| 13 | 2 | 4 | 22 | 3 | 1 | 1 | 1 | 1 | | 1978 |
| 3 | 2 | 4 | 2 | 0 | 0 | 1 | 1 | 9 | | 1979 |
| 1383 | 1187 | 331 | 859 | 2318 | 1158 | 1762 | 485 | 55 | | 1980 |



*https://doi.org/10.23637/ERADOC-1-21* 

TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 374 | *Aulacorthum palustre* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 1 | 0 | 1 | 61 | 15 | 12 |
| | 1976 | 4 | 1 | 4 | 0 | 0 | 1 | 18 | 0 | 1 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 376 | *Aulacorthum solani* | | | | | | | | | |
| | 1975 | 6 | 18 | 11 | 7 | 5 | 10 | 143 | 97 | 17 |
| | 1976 | 8 | 12 | 20 | 5 | 11 | 6 | 27 | 119 | 2 |
| | 1977 | 2 | 4 | 3 | 0 | 1 | 0 | 8 | 8 | 4 |
| | 1978 | 0 | 2 | 5 | 0 | 2 | 0 | 20 | 10 | 3 |
| | 1979 | 0 | 0 | 5 | 1 | 0 | 0 | 1 | 0 | 2 |
| | 1980 | 0 | 1 | 19 | 1 | 0 | 0 | 6 | 14 | 14 |
| 377 | *Aulacorthum speyeri* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 1976 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| | 1980 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 378 | *Neomyzus circumflexum* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 3 | 4 |
| | 1976 | 0 | 0 | 5 | 0 | 0 | 0 | 2 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 381 | *Acyrthosiphon loti* | | | | | | | | | |
| | 1975 | 0 | 4 | 1 | 1 | 0 | 0 | 6 | 2 | 3 |
| | 1976 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 |
| | 1978 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 |
| | 1980 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 382 | *Acyrthosiphon malvae* | | | | | | | | | |
| | 1975 | 1 | 3 | 0 | 0 | 0 | 0 | 1 | 3 | 1 |
| | 1976 | 0 | 0 | 1 | 0 | 1 | 0 | 8 | 3 | 2 |
| | 1977 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 2 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 4 | 0 | 1 | 1 | 0 | 0 | 9 | 0 |



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**2(w)**

| Broom's Barn 904 | Hereford 917 | Rothamsted 901 | Writtle 924 | Long Ashton 914 | Silwood Park 908 | Wye, Kent 903 | Starcross 913 | Rosewarne 910 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 374 | *Aulacorthum palustre* |
| — | 13 | 0 | 5 | 3 | 6 | 3 | 5 | 5 | | 1975 |
| — | 15 | 0 | 2 | 12 | 0 | 2 | 0 | 1 | | 1976 |
| — | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | | 1977 |
| — | 2 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | | 1979 |
| — | 1 | 0 | 2 | 2 | 2 | 2 | 5 | 3 | | 1980 |
| | | | | | | | | | 376 | *Aulacorthum solani* |
| 23 | 41 | 16 | 38 | 52 | 15 | 21 | 19 | 28 | | 1975 |
| 9 | 21 | 9 | 27 | 35 | 26 | 15 | 21 | 28 | | 1976 |
| 6 | 2 | 0 | 8 | 5 | 11 | 8 | 35 | 5 | | 1977 |
| 22 | 16 | 7 | 15 | 18 | 9 | 11 | 8 | 7 | | 1978 |
| 0 | 0 | 0 | 0 | 2 | 4 | 1 | 9 | 5 | | 1979 |
| 6 | 0 | 2 | 12 | 52 | 9 | 36 | 52 | 58 | | 1980 |
| | | | | | | | | | 377 | *Aulacorthum speyeri* |
| — | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | | 1975 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1976 |
| — | 0 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | | 1977 |
| — | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | | 1978 |
| — | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | | 1980 |
| | | | | | | | | | 378 | *Neomyzus circumflexum* |
| 0 | 7 | 4 | 3 | 14 | 11 | 3 | 7 | 6 | | 1975 |
| 0 | 2 | 0 | 0 | 4 | 0 | 0 | 1 | 4 | | 1976 |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | | 1977 |
| 0 | 0 | 0 | 0 | 3 | 0 | 0 | 2 | 3 | | 1978 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | | 1979 |
| 0 | 0 | 0 | 0 | 6 | 7 | 0 | 15 | 0 | | 1980 |
| | | | | | | | | | 381 | *Acyrthosiphon loti* |
| — | 4 | 3 | 4 | 76 | 5 | 3 | 17 | 2 | | 1975 |
| — | 6 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | | 1976 |
| — | 0 | 0 | 1 | 2 | 2 | 0 | 2 | 1 | | 1977 |
| — | 1 | 1 | 1 | 3 | 1 | 1 | 0 | 0 | | 1978 |
| — | 2 | 1 | 0 | 2 | 1 | 2 | 0 | 0 | | 1979 |
| — | 5 | 1 | 0 | 14 | 3 | 4 | 0 | 5 | | 1980 |
| | | | | | | | | | 382 | *Acyrthosiphon malvae* |
| — | 3 | 2 | 5 | 19 | 7 | 0 | 0 | 2 | | 1975 |
| — | 11 | 3 | 2 | 7 | 14 | 0 | 12 | 2 | | 1976 |
| — | 0 | 3 | 5 | 3 | 9 | 0 | 9 | 5 | | 1977 |
| — | 3 | 1 | 1 | 5 | 0 | 3 | 0 | 0 | | 1978 |
| — | 0 | 1 | 0 | 0 | 0 | 2 | 1 | 0 | | 1979 |
| — | 12 | 2 | 0 | 93 | 25 | 2 | 17 | 0 | | 1980 |



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TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 389 | *Acyrthosiphon pisum* | | | | | | | | | |
| | 1975 | 60 | 39 | 12 | 25 | 2 | 30 | 16 | 60 | 5 |
| | 1976 | 50 | 212 | 37 | 20 | 38 | 330 | 86 | 312 | 31 |
| | 1977 | 32 | 25 | 8 | 4 | 1 | 3 | 40 | 101 | 36 |
| | 1978 | 13 | 435 | 5 | 7 | 14 | 32 | 9 | 422 | 29 |
| | 1979 | 69 | 210 | 35 | 26 | 77 | 735 | 165 | 386 | 47 |
| | 1980 | 4 | 54 | 8 | 7 | 15 | 67 | 16 | 150 | 5 |
| 392 | *Acyrthosiphon primulae* | | | | | | | | | |
| | 1975 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 1 | 0 |
| | 1976 | 0 | 2 | 1 | 0 | 1 | 2 | 13 | 1 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 2 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 2 | 6 |
| 395 | *Metopolophium albidum* | | | | | | | | | |
| | 1975 | 2 | 3 | 6 | 10 | 2 | 8 | 47 | 40 | 19 |
| | 1976 | 18 | 0 | 32 | 2 | 0 | 0 | 0 | 1 | 1 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 9 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 4 |
| | 1979 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 1980 | 2 | 2 | 0 | 2 | 15 | 0 | 13 | 15 | 41 |
| 396 | *Metopolophium dirhodum* | | | | | | | | | |
| | 1975 | 109 | 342 | 1291 | 822 | 795 | 2084 | 1392 | 4876 | 198 |
| | 1976 | 80 | 1454 | 4522 | 509 | 2282 | 523 | 710 | 4277 | 234 |
| | 1977 | 393 | 706 | 198 | 84 | 44 | 32 | 83 | 247 | 43 |
| | 1978 | 1092 | 18561 | 4718 | 190 | 3575 | 2515 | 420 | 7054 | 141 |
| | 1979 | 308 | 1714 | 3567 | 738 | 2333 | 14999 | 2719 | 54793 | 738 |
| | 1980 | 18 | 1205 | 339 | 29 | 77 | 546 | 222 | 995 | 65 |
| 397 | *Metopolophium festucae* | | | | | | | | | |
| | 1975 | 283 | 20 | 75 | 317 | 85 | 235 | 1879 | 981 | 114 |
| | 1976 | 41 | 284 | 74 | 35 | 91 | 176 | 55 | 98 | 11 |
| | 1977 | 1 | 0 | 0 | 1 | 1 | 3 | 43 | 4 | 10 |
| | 1978 | 11 | 3 | 13 | 27 | 5 | 21 | 76 | 7 | 28 |
| | 1979 | 7 | 3 | 21 | 5 | 8 | 86 | 30 | 24 | 19 |
| | 1980 | 14 | 10 | 42 | 47 | 120 | 187 | 145 | 93 | 187 |
| 398 | *Metopolophium frisicum* | | | | | | | | | |
| | 1975 | 0 | 1 | 6 | 22 | 8 | 3 | 79 | 94 | 1 |
| | 1976 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 1 | 0 | 8 | 7 | 10 | 0 |



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2(x)

| Broom's Barn | Hereford | Rothamsted | Writtle | Long Ashton | Silwood Park | Wye, Kent | Starcross | Roswearne | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 904 | 917 | 901 | 924 | 914 | 908 | 903 | 913 | 910 | | |
| | | | | | | | | | 389 | *Acyrthosiphon pisum* |
| 249 | 41 | 41 | 249 | 27 | 58 | 71 | 27 | 16 | | 1975 |
| 494 | 83 | 220 | 692 | 52 | 281 | 71 | 75 | 5 | | 1976 |
| 266 | 97 | 404 | 697 | 106 | 213 | 163 | 148 | 20 | | 1977 |
| 398 | 108 | 70 | 267 | 51 | 53 | 116 | 48 | 5 | | 1978 |
| 2198 | 451 | 313 | 654 | 115 | 145 | 1107 | 190 | 6 | | 1979 |
| 67 | 26 | 31 | 91 | 43 | 61 | 80 | 25 | 7 | | 1980 |
| | | | | | | | | | 392 | *Acyrthosiphon pri mulae* |
| — | 4 | 0 | 1 | 6 | 0 | 1 | 4 | 2 | | 1975 |
| — | 17 | 12 | 14 | 5 | 13 | 5 | 2 | 1 | | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| — | 0 | 0 | 0 | 3 | 3 | 1 | 0 | 0 | | 1978 |
| — | 16 | 4 | 1 | 0 | 5 | 34 | 0 | 0 | | 1979 |
| — | 4 | 0 | 2 | 3 | 4 | 3 | 1 | 0 | | 1980 |
| | | | | | | | | | 395 | *Metopolophium albidum* |
| — | 21 | 17 | 4 | 60 | 79 | 2 | 5 | 5 | | 1975 |
| — | 3 | 3 | 1 | 6 | 4 | 1 | 4 | 0 | | 1976 |
| — | 0 | 6 | 0 | 0 | 1 | 1 | 3 | 3 | | 1977 |
| — | 2 | 2 | 0 | 2 | 0 | 2 | 2 | 0 | | 1978 |
| — | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 1 | | 1979 |
| — | 21 | 15 | 10 | 83 | 68 | 50 | 17 | 10 | | 1980 |
| | | | | | | | | | 396 | *Metopolophium dirhodum* |
| 5717 | 282 | 371 | 674 | 315 | 312 | 269 | 114 | 66 | | 1975 |
| 1018 | 4154 | 1616 | 5797 | 2225 | 1364 | 1277 | 247 | 34 | | 1976 |
| 855 | 105 | 501 | 1354 | 126 | 946 | 446 | 2144 | 793 | | 1977 |
| 4114 | 664 | 606 | 1055 | 208 | 231 | 689 | 249 | 32 | | 1978 |
| 104429 | 8592 | 18427 | 21085 | 1597 | 7377 | 34449 | 1967 | 421 | | 1979 |
| 73 | 49 | 19 | 38 | 185 | 35 | 54 | 80 | 12 | | 1980 |
| | | | | | | | | | 397 | *Metopolophium festucae* |
| 41 | 221 | 109 | 29 | 167 | 115 | 24 | 41 | 25 | | 1975 |
| 138 | 203 | 163 | 97 | 43 | 104 | 71 | 55 | 11 | | 1976 |
| 73 | 9 | 115 | 36 | 4 | 53 | 34 | 26 | 51 | | 1977 |
| 111 | 32 | 61 | 73 | 56 | 31 | 23 | 8 | 28 | | 1978 |
| 179 | 28 | 63 | 27 | 19 | 9 | 150 | 42 | 40 | | 1979 |
| 145 | 642 | 160 | 140 | 1298 | 295 | 260 | 234 | 122 | | 1980 |
| | | | | | | | | | 398 | *Metopolophium frisicum* |
| — | 17 | 4 | 2 | 6 | 9 | 0 | 2 | 1 | | 1975 |
| — | 0 | 0 | 0 | 1 | 3 | 4 | 6 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| — | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | | 1979 |
| — | 7 | 2 | 2 | 8 | 3 | 12 | 3 | 2 | | 1980 |



https://doi.org/10.23637/ERADOC-1-21 

TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 399 | *Metopolophium tenerum* | | | | | | | | | |
| | 1975 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 7 | 0 |
| | 1976 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| | 1980 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 4 |
| 400 | *Cryptaphis poae* | | | | | | | | | |
| | 1975 | 0 | 1 | 0 | 0 | 2 | 0 | 5 | 0 | 1 |
| | 1976 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 11 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 1 |
| 402 | *Linosiphon galiophagus* | | | | | | | | | |
| | 1975 | 3 | 1 | 6 | 3 | 3 | 8 | 17 | 22 | 0 |
| | 1976 | 82 | 7 | 33 | 1 | 11 | 0 | 2 | 8 | 1 |
| | 1977 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 |
| | 1978 | 1 | 9 | 3 | 0 | 9 | 0 | 0 | 0 | 0 |
| | 1979 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 |
| | 1980 | 0 | 1 | 0 | 3 | 3 | 1 | 7 | 33 | 0 |
| 403 | *Corylobium avellanae* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 410 | *Macrosiphum euphorbiae* | | | | | | | | | |
| | 1975 | 104 | 196 | 160 | 30 | 46 | 147 | 244 | 502 | 87 |
| | 1976 | 57 | 75 | 90 | 35 | 61 | 21 | 176 | 291 | 50 |
| | 1977 | 25 | 194 | 67 | 48 | 13 | 0 | 182 | 121 | 92 |
| | 1978 | 35 | 440 | 178 | 69 | 51 | 12 | 156 | 113 | 44 |
| | 1979 | 22 | 153 | 63 | 16 | 16 | 8 | 46 | 144 | 14 |
| | 1980 | 30 | 154 | 80 | 14 | 105 | 9 | 52 | 90 | 41 |
| 412 | *Macrosiphum funestum* | | | | | | | | | |
| | 1975 | 1 | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 0 |
| | 1976 | 0 | 0 | 5 | 0 | 1 | 0 | 0 | 10 | 2 |
| | 1977 | 0 | 1 | 0 | 1 | 0 | 0 | 4 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |



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2(y)

| Broom's Barn | Hereford | Rothamsted | Writtle | Long Ashton | Silwood Park | Wye, Kent | Starcross | Rosewarne | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 904 | 917 | 901 | 924 | 914 | 908 | 903 | 913 | 910 | 399 | *Metopolophium tenerum* |
| — | 3 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | | 1975 |
| — | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 12 | | 1977 |
| — | 0 | 1 | 0 | 2 | 3 | 0 | 1 | 0 | | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | 1979 |
| — | 1 | 0 | 4 | 1 | 4 | 4 | 0 | 0 | | 1980 |
| | | | | | | | | | 400 | *Cryptaphis poae* |
| — | 1 | 1 | 2 | 1 | 8 | 0 | 0 | 2 | | 1975 |
| — | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | 1977 |
| — | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | | 1978 |
| — | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | | 1979 |
| — | 0 | 1 | 0 | 0 | 15 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 402 | *Linosiphon galiophagus* |
| — | 118 | 20 | 29 | 18 | 23 | 9 | 11 | 2 | | 1975 |
| — | 2 | 0 | 0 | 4 | 2 | 1 | 9 | 1 | | 1976 |
| — | 0 | 0 | 0 | 1 | 0 | 2 | 13 | 5 | | 1977 |
| — | 2 | 1 | 0 | 2 | 0 | 0 | 1 | 0 | | 1978 |
| — | 0 | 0 | 8 | 0 | 1 | 2 | 0 | 0 | | 1979 |
| — | 132 | 5 | 1 | 17 | 4 | 4 | 74 | 4 | | 1980 |
| | | | | | | | | | 403 | *Corylobium avellanae* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| — | 2 | 3 | 0 | 0 | 0 | 8 | 5 | 0 | | 1976 |
| — | 1 | 0 | 4 | 2 | 0 | 1 | 3 | 0 | | 1977 |
| — | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | | 1978 |
| — | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 410 | *Macrosiphum euphorbiae* |
| 62 | 143 | 104 | 124 | 256 | 152 | 86 | 72 | 36 | | 1975 |
| 131 | 78 | 68 | 188 | 107 | 149 | 187 | 77 | 17 | | 1976 |
| 37 | 125 | 87 | 159 | 88 | 164 | 87 | 448 | 743 | | 1977 |
| 54 | 122 | 30 | 35 | 103 | 55 | 39 | 76 | 72 | | 1978 |
| 95 | 111 | 56 | 20 | 28 | 64 | 150 | 33 | 24 | | 1979 |
| 18 | 102 | 47 | 69 | 144 | 122 | 106 | 62 | 10 | | 1980 |
| | | | | | | | | | 412 | *Macrosiphum funestum* |
| — | 0 | 0 | 0 | 2 | 2 | 4 | 3 | 3 | | 1975 |
| — | 24 | 5 | 0 | 20 | 18 | 15 | 1 | 0 | | 1976 |
| — | 5 | 0 | 1 | 0 | 2 | 3 | 4 | 2 | | 1977 |
| — | 0 | 1 | 0 | 3 | 0 | 6 | 0 | 1 | | 1978 |
| — | 4 | 0 | 36 | 0 | 2 | 0 | 0 | 2 | | 1979 |
| — | 0 | 3 | 0 | 17 | 1 | 0 | 3 | 4 | | 1980 |



*https://doi.org/10.23637/ERADOC-1-21* 

TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 413 | *Macrosiphum gei* | | | | | | | | | |
| | 1975 | 2 | 0 | 1 | 1 | 7 | 0 | 5 | 4 | 5 |
| | 1976 | 4 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 3 |
| | 1977 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 |
| | 1978 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 2 | 0 |
| | 1979 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 4 | 0 |
| | 1980 | 0 | 1 | 0 | 0 | 1 | 1 | 4 | 0 | 0 |
| 416 | *Macrosiphum rosae* | | | | | | | | | |
| | 1975 | 4 | 5 | 8 | 9 | 4 | 2 | 5 | 20 | 8 |
| | 1976 | 5 | 11 | 14 | 18 | 17 | 8 | 12 | 35 | 30 |
| | 1977 | 0 | 2 | 4 | 4 | 1 | 0 | 2 | 25 | 7 |
| | 1978 | 2 | 9 | 6 | 1 | 4 | 1 | 10 | 4 | 3 |
| | 1979 | 2 | 4 | 5 | 5 | 1 | 0 | 15 | 12 | 10 |
| | 1980 | 0 | 4 | 31 | 3 | 5 | 6 | 8 | 13 | 39 |
| 420 | *Sitobion avenae* | | | | | | | | | |
| | 1975 | 1012 | 2627 | 3768 | 1505 | 848 | 4269 | 1905 | 5943 | 1877 |
| | 1976 | 1594 | 2578 | 4474 | 6615 | 3300 | 2871 | 13713 | 12676 | 4616 |
| | 1977 | 282 | 801 | 502 | 790 | 702 | 875 | 429 | 1140 | 598 |
| | 1978 | 189 | 287 | 284 | 50 | 284 | 316 | 92 | 1632 | 312 |
| | 1979 | 162 | 354 | 774 | 26 | 43 | 382 | 111 | 190 | 195 |
| | 1980 | 128 | 544 | 475 | 470 | 745 | 3582 | 1511 | 3695 | 441 |
| 421 | *Sitobion fragariae* | | | | | | | | | |
| | 1975 | 14 | 11 | 76 | 67 | 19 | 43 | 151 | 161 | 52 |
| | 1976 | 50 | 19 | 82 | 23 | 39 | 5 | 80 | 31 | 23 |
| | 1977 | 41 | 4 | 29 | 11 | 9 | 1 | 235 | 65 | 168 |
| | 1978 | 5 | 115 | 14 | 37 | 60 | 112 | 62 | 382 | 64 |
| | 1979 | 57 | 69 | 46 | 20 | 69 | 373 | 116 | 1165 | 35 |
| | 1980 | 16 | 46 | 27 | 14 | 57 | 102 | 64 | 160 | 30 |
| 450 | *Macrosiphoniella abrotani* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 8 | 0 |
| | 1977 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 451 | *Macrosiphoniella absinthii* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| | 1979 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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2(z)

| Broom's Barn | Hereford | Rothamsted | Writtle | Long Ashton | Silwood Park | Wye, Kent | Starcross | Rosewarne | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 904 | 917 | 901 | 924 | 914 | 908 | 903 | 913 | 910 | | |
| | | | | | | | | | 413 | *Macrosiphum gei* |
| 0 | 1 | 7 | 4 | 8 | 4 | 3 | 0 | 1 | | 1975 |
| 0 | 6 | 2 | 0 | 0 | 8 | 2 | 0 | 0 | | 1976 |
| 0 | 0 | 0 | 0 | 0 | 5 | 1 | 0 | 0 | | 1977 |
| 0 | 0 | 0 | 0 | 7 | 2 | 2 | 0 | 0 | | 1978 |
| 0 | 0 | 0 | 0 | 1 | 0 | 3 | 2 | 1 | | 1979 |
| 5 | 4 | 2 | 4 | 7 | 2 | 1 | 0 | 1 | | 1980 |
| | | | | | | | | | 416 | *Macrosiphum rosae* |
| 8 | 15 | 9 | 15 | 35 | 26 | 12 | 20 | 4 | | 1975 |
| 0 | 14 | 19 | 8 | 54 | 59 | 38 | 5 | 6 | | 1976 |
| 0 | 30 | 21 | 27 | 11 | 37 | 12 | 115 | 32 | | 1977 |
| 0 | 7 | 4 | 3 | 12 | 13 | 7 | 2 | 3 | | 1978 |
| 0 | 4 | 14 | 16 | 6 | 30 | 40 | 10 | 4 | | 1979 |
| 0 | 8 | 13 | 19 | 82 | 64 | 39 | 13 | 5 | | 1980 |
| | | | | | | | | | 420 | *Sitobion avenae* |
| 9676 | 3019 | 1522 | 2632 | 5851 | 2740 | 1992 | 2029 | 524 | | 1975 |
| 8639 | 7567 | 7596 | 9461 | 4301 | 10261 | 4112 | 2636 | 262 | | 1976 |
| 2081 | 1327 | 2794 | 3604 | 1187 | 3590 | 3096 | 4800 | 4597 | | 1977 |
| 1134 | 911 | 578 | 1241 | 526 | 680 | 813 | 580 | 200 | | 1978 |
| 2141 | 106 | 376 | 678 | 122 | 452 | 1828 | 509 | 222 | | 1979 |
| 2777 | 999 | 827 | 2140 | 1115 | 2407 | 4569 | 628 | 122 | | 1980 |
| | | | | | | | | | 421 | *Sitobion fragariae* |
| 124 | 101 | 116 | 187 | 140 | 137 | 122 | 120 | 148 | | 1975 |
| 68 | 39 | 29 | 79 | 56 | 61 | 51 | 123 | 77 | | 1976 |
| 58 | 42 | 18 | 64 | 63 | 72 | 37 | 93 | 53 | | 1977 |
| 349 | 833 | 497 | 377 | 437 | 718 | 468 | 332 | 27 | | 1978 |
| 2088 | 551 | 678 | 385 | 105 | 520 | 645 | 357 | 55 | | 1979 |
| 33 | 138 | 69 | 77 | 180 | 149 | 106 | 180 | 43 | | 1980 |
| | | | | | | | | | 450 | *Macrosiphoniella abrotani* |
| — | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | | 1975 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1978 |
| — | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | | 1979 |
| — | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 451 | *Macrosiphoniella absinthii* |
| — | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | | 1975 |
| — | 0 | 2 | 0 | 0 | 0 | 4 | 0 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | | 1977 |
| — | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | | 1978 |
| — | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | | 1980 |



*https://doi.org/10.23637/ERADOC-1-21* 

TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 452 | *Macrosiphoniella artemisiae* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |
| | 1977 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| | 1978 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| | 1980 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 453 | *Macrosiphoniella millefolii* | | | | | | | | | |
| | 1975 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 4 | 0 |
| | 1980 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 462 | *Macrosiphoniella persequens* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 463 | *Macrosiphoniella sejuncta* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| | 1976 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 732 | *Macrosiphoniella tapuskae* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 8 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 18 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 467 | *Amphorophora gei* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1976 | 0 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |



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**2(aa)**

| Broom's Barn 904 | Hereford 917 | Rothamsted 901 | Writtle 924 | Long Ashton 914 | Silwood Park 908 | Wye, Kent 903 | Starcross 913 | Rosewarne 910 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 452 | *Macrosiphoniella artemisiae* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| — | 2 | 0 | 12 | 0 | 0 | 3 | 0 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1978 |
| — | 1 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 453 | *Macrosiphoniella millefolii* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| — | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| — | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | | 1978 |
| — | 0 | 0 | 0 | 0 | 6 | 2 | 1 | 0 | | 1979 |
| — | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 462 | *Macrosiphoniella persequens* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | | 1975 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1976 |
| — | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | | 1977 |
| — | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | | 1978 |
| — | 0 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 463 | *Macrosiphoniella sejuncta* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | | 1975 |
| — | 4 | 4 | 1 | 4 | 3 | 2 | 0 | 0 | | 1976 |
| — | 0 | 0 | 0 | 2 | 2 | 0 | 2 | 0 | | 1977 |
| — | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | | 1978 |
| — | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | | 1979 |
| — | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 732 | *Macrosiphoniella tapuskae* |
| — | 1 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | | 1975 |
| — | 4 | 5 | 18 | 1 | 4 | 18 | 0 | 0 | | 1976 |
| — | 1 | 3 | 6 | 7 | 2 | 6 | 7 | 0 | | 1977 |
| — | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | | 1978 |
| — | 4 | 0 | 8 | 0 | 1 | 0 | 0 | 0 | | 1979 |
| — | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 467 | *Amphorophora gei* |
| — | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |



*https://doi.org/10.23637/ERADOC-1-21* 

TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 468 | *Amphorophora rubi* | | | | | | | | | |
| | 1975 | 0 | 19 | 1 | 0 | 1 | 0 | 16 | 1 | 6 |
| | 1976 | 4 | 15 | 12 | 0 | 1 | 6 | 8 | 0 | 5 |
| | 1977 | 1 | 29 | 11 | 0 | 1 | 0 | 3 | 5 | 1 |
| | 1978 | 1 | 9 | 1 | 0 | 2 | 3 | 1 | 3 | 1 |
| | 1979 | 10 | 64 | 2 | 1 | 2 | 0 | 0 | 14 | 0 |
| | 1980 | 0 | 8 | 2 | 0 | 5 | 1 | 2 | 4 | 27 |
| 470 | *Megoura viciae* | | | | | | | | | |
| | 1975 | 4 | 2 | 0 | 4 | 2 | 3 | 4 | 4 | 0 |
| | 1976 | 7 | 2 | 1 | 0 | 5 | 0 | 4 | 0 | 0 |
| | 1977 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 |
| | 1979 | 1 | 1 | 1 | 3 | 3 | 0 | 2 | 0 | 2 |
| | 1980 | 2 | 3 | 6 | 2 | 10 | 0 | 1 | 0 | 2 |
| 471 | *Megourella purpurea* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 1 |
| | 1976 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| | 1980 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |
| 741 | *Masonaphis lambersi* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | — |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | — |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | — |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | — |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | — |
| | 1980 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | — |
| 477 | *Wahlgreniella arbuti* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 73 | 0 |
| | 1976 | 0 | 0 | 7 | 0 | 2 | 7 | 4 | 305 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 83 | 0 |
| | 1978 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 4 | 0 |
| | 1979 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 |
| | 1980 | 2 | 2 | 19 | 0 | 4 | 2 | 3 | 31 | 0 |
| 480 | *Anoecia corni* | | | | | | | | | |
| | 1975 | 4 | 0 | 0 | 17 | 0 | 3 | 17 | 89 | 28 |
| | 1976 | 3 | 2 | 1 | 7 | 2 | 3 | 24 | 62 | 40 |
| | 1977 | 0 | 0 | 0 | 3 | 1 | 1 | 8 | 72 | 40 |
| | 1978 | 1 | 1 | 0 | 6 | 1 | 3 | 23 | 121 | 74 |
| | 1979 | 0 | 0 | 0 | 2 | 0 | 2 | 21 | 140 | 54 |
| | 1980 | 0 | 5 | 1 | 7 | 0 | 8 | 37 | 69 | 35 |



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**2(bb)**

| Broom's Barn 904 | Hereford 917 | Rothamsted 901 | Writtle 924 | Long Ashton 914 | Silwood Park 908 | Wye, Kent 903 | Starcross 913 | Rosewarne 910 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 468 | *Amphorophora rubi* |
| 24 | 17 | 4 | 24 | 61 | 15 | 17 | 43 | 33 | | 1975 |
| 50 | 12 | 4 | 4 | 55 | 18 | 20 | 8 | 10 | | 1976 |
| 47 | 9 | 0 | 10 | 3 | 2 | 3 | 18 | 0 | | 1977 |
| 6 | 10 | 3 | 6 | 2 | 7 | 5 | 1 | 0 | | 1978 |
| 7 | 10 | 4 | 10 | 0 | 20 | 4 | 0 | 0 | | 1979 |
| 30 | 14 | 2 | 2 | 41 | 9 | 17 | 34 | 14 | | 1980 |
| | | | | | | | | | 470 | *Megoura viciae* |
| 2 | 4 | 1 | 14 | 0 | 2 | 2 | 0 | 1 | | 1975 |
| 2 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | | 1976 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1978 |
| 1 | 0 | 0 | 10 | 6 | 1 | 54 | 0 | 3 | | 1979 |
| 3 | 0 | 2 | 4 | 0 | 6 | 4 | 0 | 1 | | 1980 |
| | | | | | | | | | 471 | *Megourella purpurea* |
| 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | | 1975 |
| 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | | 1976 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| 0 | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | | 1978 |
| 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | | 1979 |
| 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 741 | *Masonaphis lambersi* |
| — | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | | 1975 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| — | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | | 1978 |
| — | 0 | 2 | 0 | 0 | 19 | 0 | 0 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 477 | *Wahlgreniella arbuti* |
| — | 2 | 92 | 103 | 15 | 240 | 12 | 1 | 2 | | 1975 |
| — | 35 | 293 | 288 | 22 | 309 | 30 | 0 | 0 | | 1976 |
| — | 17 | 61 | 135 | 29 | 200 | 41 | 1 | 6 | | 1977 |
| — | 5 | 15 | 15 | 19 | 37 | 1 | 0 | 0 | | 1978 |
| — | 9 | 4 | 8 | 10 | 32 | 19 | 0 | 0 | | 1979 |
| — | 15 | 86 | 174 | 29 | 152 | 35 | 6 | 0 | | 1980 |
| | | | | | | | | | 480 | *Anoecia corni* |
| 48 | 75 | 75 | 116 | 275 | 271 | 84 | 42 | 24 | | 1975 |
| 49 | 24 | 77 | 150 | 162 | 219 | 89 | 19 | 26 | | 1976 |
| 84 | 66 | 130 | 220 | 278 | 318 | 164 | 130 | 44 | | 1977 |
| 132 | 171 | 124 | 94 | 371 | 446 | 307 | 68 | 28 | | 1978 |
| 87 | 155 | 76 | 93 | 201 | 296 | 183 | 61 | 16 | | 1979 |
| 61 | 66 | 100 | 133 | 291 | 348 | 151 | 35 | 52 | | 1980 |



*https://doi.org/10.23637/ERADOC-1-21* 

TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 490 | *Thelaxes dryophila* | | | | | | | | | |
| | 1975 | 0 | 11 | 10 | 16 | 0 | 0 | 1 | 6 | 8 |
| | 1976 | 13 | 54 | 10 | 15 | 2 | 4 | 22 | 5 | 6 |
| | 1977 | 0 | 0 | 0 | 3 | 1 | 0 | 1 | 5 | 3 |
| | 1978 | 0 | 3 | 2 | 2 | 0 | 4 | 2 | 2 | 6 |
| | 1979 | 0 | 1 | 1 | 0 | 2 | 6 | 0 | 16 | 0 |
| | 1980 | 0 | 3 | 17 | 1 | 3 | 0 | 2 | 6 | 0 |
| 491 | *Mindarus abietinus* | | | | | | | | | |
| | 1975 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 1976 | 2 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 3 |
| | 1977 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 9 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 499 | *Eriosoma patchae* | | | | | | | | | |
| | 1975 | 6 | 9 | 3 | 5 | 0 | 2 | 1 | 19 | 2 |
| | 1976 | 48 | 16 | 6 | 22 | 4 | 12 | 20 | 21 | 4 |
| | 1977 | 5 | 18 | 0 | 23 | 0 | 4 | 16 | 21 | 3 |
| | 1978 | 1 | 20 | 2 | 1 | 6 | 7 | 7 | 8 | 5 |
| | 1979 | 8 | 54 | 17 | 1 | 6 | 18 | 4 | 21 | 0 |
| | 1980 | 12 | 14 | 0 | 0 | 0 | 7 | 7 | 6 | 1 |
| 500 | *Erisoma ulmi* | | | | | | | | | |
| | 1975 | 5 | 38 | 15 | 5 | 4 | 11 | 4 | 15 | 4 |
| | 1976 | 121 | 540 | 63 | 26 | 72 | 97 | 229 | 336 | 15 |
| | 1977 | 7 | 118 | 35 | 15 | 10 | 9 | 33 | 22 | 7 |
| | 1978 | 32 | 331 | 75 | 10 | 37 | 43 | 118 | 107 | 10 |
| | 1979 | 32 | 244 | 12 | 4 | 30 | 94 | 45 | 218 | 11 |
| | 1980 | 18 | 138 | 25 | 14 | 7 | 24 | 32 | 27 | 8 |
| 502 | *Kaltenbachiella pallida* | | | | | | | | | |
| | 1975 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 1976 | 3 | 2 | 3 | 1 | 0 | 0 | 10 | 0 | 30 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 1 | 0 | 3 | 2 | 0 | 1 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 503 | *Tetraneura ulmi* | | | | | | | | | |
| | 1975 | 2 | 1 | 0 | 0 | 0 | 0 | 2 | 9 | 3 |
| | 1976 | 2 | 0 | 1 | 1 | 1 | 0 | 2 | 3 | 4 |
| | 1977 | 3 | 0 | 0 | 1 | 0 | 0 | 2 | 7 | 357 |
| | 1978 | 4 | 3 | 1 | 5 | 3 | 1 | 5 | 10 | 0 |
| | 1979 | 8 | 4 | 0 | 4 | 0 | 0 | 7 | 4 | 3 |
| | 1980 | 0 | 10 | 0 | 4 | 0 | 1 | 15 | 14 | 15 |



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2(cc)

| Broom's Barn | Hereford | Rothamsted | Writtle | Long Ashton | Silwood Park | Wye, Kent | Starcross | Rosewarne | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 904 | 917 | 901 | 924 | 914 | 908 | 903 | 913 | 910 | | |
| | | | | | | | | | 490 | *Thelaxes dryophila* |
| 27 | 19 | 5 | 14 | 16 | 36 | 56 | 44 | 2 | | 1975 |
| 29 | 153 | 31 | 48 | 31 | 654 | 95 | 130 | 8 | | 1976 |
| 38 | 456 | 24 | 160 | 35 | 239 | 63 | 110 | 0 | | 1977 |
| 45 | 81 | 10 | 45 | 32 | 47 | 60 | 104 | 0 | | 1978 |
| 14 | 363 | 14 | 47 | 15 | 178 | 46 | 125 | 0 | | 1979 |
| 26 | 97 | 0 | 37 | 14 | 113 | 30 | 41 | 1 | | 1980 |
| | | | | | | | | | 491 | *Mindarus abietinus* |
| — | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | | 1975 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | | 1980 |
| | | | | | | | | | 499 | *Eriosoma patchae* |
| — | 13 | 1 | 0 | 12 | 10 | 4 | 2 | 3 | | 1975 |
| — | 1 | 4 | 9 | 4 | 7 | 5 | 4 | 1 | | 1976 |
| — | 4 | 1 | 6 | 7 | 16 | 9 | 3 | 4 | | 1977 |
| — | 29 | 12 | 10 | 48 | 68 | 62 | 7 | 6 | | 1978 |
| — | 48 | 15 | 28 | 18 | 74 | 40 | 5 | 3 | | 1979 |
| — | 0 | 9 | 10 | 14 | 19 | 16 | 2 | 2 | | 1980 |
| | | | | | | | | | 500 | *Eriosoma ulmi* |
| 26 | 20 | 6 | 7 | 10 | 7 | 12 | 4 | 0 | | 1975 |
| 78 | 241 | 98 | 62 | 65 | 47 | 44 | 8 | 1 | | 1976 |
| 31 | 93 | 5 | 38 | 10 | 10 | 36 | 2 | 0 | | 1977 |
| 114 | 231 | 29 | 69 | 33 | 29 | 91 | 2 | 3 | | 1978 |
| 245 | 425 | 33 | 71 | 28 | 52 | 221 | 1 | 2 | | 1979 |
| 17 | 108 | 12 | 12 | 25 | 15 | 35 | 1 | 1 | | 1980 |
| | | | | | | | | | 502 | *Kaltenbachiella pallida* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| — | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | | 1976 |
| — | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| — | 1 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | | 1978 |
| — | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | | 1979 |
| — | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 503 | *Tetraneura ulmi* |
| — | 0 | 6 | 5 | 28 | 10 | 6 | 7 | 1 | | 1975 |
| — | 2 | 5 | 42 | 36 | 7 | 28 | 3 | 2 | | 1976 |
| — | 1 | 7 | 14 | 34 | 9 | 15 | 5 | 3 | | 1977 |
| — | 9 | 10 | 6 | 32 | 25 | 14 | 1 | 0 | | 1978 |
| — | 1 | 2 | 14 | 18 | 27 | 14 | 3 | 0 | | 1979 |
| — | 12 | 4 | 8 | 17 | 21 | 14 | 4 | 2 | | 1980 |



*https://doi.org/10.23637/ERADOC-1-21* 

TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 508 | *Prociphilus pini* | | | | | | | | | |
| | 1975 | 51 | 21 | 0 | 4 | 8 | 3 | 0 | 4 | 22 |
| | 1976 | 19 | 3 | 1 | 4 | 4 | 3 | 0 | 27 | 3 |
| | 1977 | 14 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 |
| | 1978 | 10 | 7 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| | 1979 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 4 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 510 | *Mimeuria ulmiphila* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 2 | 0 | 1 | 1 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 512 | *Thecabius affinis* | | | | | | | | | |
| | 1975 | 16 | 65 | 51 | 27 | 75 | 25 | 55 | 84 | 124 |
| | 1976 | 16 | 26 | 20 | 118 | 94 | 6 | 142 | 7 | 147 |
| | 1977 | 37 | 13 | 4 | 26 | 17 | 3 | 25 | 16 | 0 |
| | 1978 | 2 | 27 | 16 | 21 | 21 | 2 | 12 | 26 | 0 |
| | 1979 | 47 | 11 | 23 | 6 | 87 | 6 | 30 | 33 | 15 |
| | 1980 | 7 | 17 | 31 | 3 | 16 | 2 | 29 | 12 | 0 |
| 523 | *Parathecabius lysimachiae* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| | 1978 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 527 | *Forda formicaria* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 2 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 4 | 2 |
| | 1978 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 |
| | 1979 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 2 | 1 |
| 528 | *Forda marginata* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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**2(dd)**

| Broom's Barn 904 | Hereford 917 | Rothamsted 901 | Writtle 924 | Long Ashton 914 | Silwood Park 908 | Wye, Kent 903 | Starcross 913 | Rosewarne 910 | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 508 *Prociphilus pini* |
| — | 2 | 3 | 0 | 6 | 58 | 16 | 1 | 0 | 1975 |
| — | 0 | 1 | 4 | 0 | 63 | 5 | 0 | 0 | 1976 |
| — | 0 | 5 | 0 | 0 | 4 | 6 | 1 | 0 | 1977 |
| — | 0 | 2 | 0 | 2 | 9 | 4 | 0 | 0 | 1978 |
| — | 1 | 0 | 0 | 0 | 11 | 15 | 0 | 0 | 1979 |
| — | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1980 |
| | | | | | | | | | 510 *Mimeuria ulmiphila* |
| — | 1 | 2 | 1 | 1 | 3 | 0 | 3 | 0 | 1975 |
| — | 0 | 4 | 6 | 0 | 0 | 1 | 2 | 0 | 1976 |
| — | 0 | 0 | 7 | 1 | 1 | 1 | 12 | 0 | 1977 |
| — | 0 | 0 | 6 | 2 | 17 | 9 | 23 | 1 | 1978 |
| — | 0 | 2 | 3 | 5 | 11 | 3 | 6 | 0 | 1979 |
| — | 0 | 2 | 0 | 5 | 6 | 2 | 3 | 0 | 1980 |
| | | | | | | | | | 512 *Thecabius affinis* |
| 0 | 23 | 3 | 23 | 56 | 23 | 32 | 33 | 30 | 1975 |
| 0 | 13 | 3 | 6 | 15 | 19 | 5 | 5 | 5 | 1976 |
| 0 | 9 | 0 | 4 | 22 | 12 | 9 | 25 | 4 | 1977 |
| 0 | 32 | 3 | 6 | 21 | 22 | 12 | 30 | 8 | 1978 |
| 0 | 12 | 8 | 6 | 16 | 25 | 16 | 6 | 18 | 1979 |
| 0 | 12 | 3 | 14 | 18 | 7 | 2 | 12 | 10 | 1980 |
| | | | | | | | | | 523 *Parathecabius lysimachiae* |
| — | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1975 |
| — | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1976 |
| — | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1977 |
| — | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1980 |
| | | | | | | | | | 527 *Forda formicaria* |
| 1 | 1 | 3 | 2 | 15 | 6 | 12 | 0 | 0 | 1975 |
| 0 | 0 | 0 | 0 | 7 | 9 | 1 | 2 | 0 | 1976 |
| 0 | 1 | 1 | 0 | 9 | 8 | 1 | 4 | 6 | 1977 |
| 0 | 1 | 1 | 1 | 2 | 2 | 4 | 2 | 1 | 1978 |
| 0 | 0 | 0 | 0 | 3 | 3 | 9 | 4 | 0 | 1979 |
| 0 | 0 | 3 | 3 | 2 | 2 | 3 | 2 | 0 | 1980 |
| | | | | | | | | | 528 *Forda marginata* |
| — | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1975 |
| — | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 1976 |
| — | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1977 |
| — | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1980 |



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TABLE

| | | Elgin | Dundee | Edinburgh | Auchincruive | Newcastle | High Mowthorpe | Preston | Shardlow | Aberystwyth |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 916 | 907 | 912 | 923 | 906 | 905 | 922 | 919 | 911 |
| 530 | *Aploneura lentisci* | | | | | | | | | |
| | 1975 | 0 | 1 | 15 | 7 | 2 | 3 | 0 | 21 | 3 |
| | 1976 | 1 | 5 | 3 | 42 | 28 | 37 | 56 | 680 | 207 |
| | 1977 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 531 | *Baizongia pistaciae* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 726 | *Melanaphis elizabethae* | | | | | | | | | |
| | 1975 | 0 | 11 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 1976 | 0 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 733 | *Nearctaphis bakeri* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |
| | 1976 | 0 | 0 | 5 | 0 | 1 | 1 | 1 | 3 | 1 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 751 | *Utamphorophora humboldti* | | | | | | | | | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 |
| | 1976 | 0 | 1 | 10 | 0 | 0 | 0 | 2 | 4 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 |
| | 1980 | 0 | 1 | 4 | 0 | 0 | 0 | 14 | 23 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 1 | 2 | 0 | 13 | 41 | 24 |
| 756 | *Cedrobium laportei* | | | | | | | | | |
| | 1975 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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**2(ee)**

| Broom's Barn 904 | Hereford 917 | Rothamsted 901 | Writtle 924 | Long Ashton 914 | Silwood Park 908 | Wye, Kent 903 | Starcross 913 | Rosewarne 910 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 530 | *Aploneura lentisci* |
| 0 | 19 | 62 | 30 | 35 | 23 | 78 | 23 | 53 | | 1975 |
| 73 | 1635 | 680 | 647 | 3161 | 604 | 635 | 941 | 5115 | | 1976 |
| 1 | 5 | 0 | 0 | 3 | 1 | 0 | 4 | 0 | | 1977 |
| 0 | 0 | 0 | 0 | 7 | 0 | 0 | 2 | 1 | | 1978 |
| 0 | 0 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | | 1979 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 531 | *Baizongia pistaciae* |
| — | 0 | 6 | 5 | 3 | 8 | 2 | 0 | 0 | | 1975 |
| — | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| — | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 726 | *Melanaphis elizabethae* |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1975 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 733 | *Nearctaphis bakeri* |
| — | 5 | 9 | 17 | 2 | 12 | 12 | 13 | 1 | | 1975 |
| — | 11 | 16 | 12 | 2 | 9 | 5 | 6 | 3 | | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| — | 0 | 0 | 0 | 1 | 3 | 1 | 1 | 0 | | 1978 |
| — | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | | 1979 |
| — | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |
| | | | | | | | | | 751 | *Utamphorophora humboldti* |
| — | 3 | 54 | 13 | 12 | 102 | 0 | 2 | 0 | | 1975 |
| — | 23 | 15 | 5 | 24 | 15 | 0 | 5 | 1 | | 1976 |
| — | 1 | 1 | 0 | 0 | 2 | 1 | 4 | 6 | | 1977 |
| — | 14 | 10 | 10 | 45 | 18 | 12 | 18 | 13 | | 1978 |
| — | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 1 | | 1979 |
| — | 7 | 13 | 15 | 67 | 35 | 50 | 77 | 29 | | 1980 |
| | | | | | | | | | 756 | *Cedrobium laportei* |
| — | 0 | 0 | 4 | 0 | 4 | 0 | 1 | 0 | | 1975 |
| — | 0 | 4 | 4 | 0 | 6 | 0 | 2 | 0 | | 1976 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1977 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1978 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1979 |
| — | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1980 |



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Figs. 17–35. The average geographical distribution of each seasonal migration for the years 1975–80 mapped from the 18 sample stations listed in Table 2 using the SYMAP program (Laboratory for Computer Graphics, Harvard). The number of migrations per year is based on the known biological cycles, the published phenological evidence (Taylor *et al.*, Figs. 3–9) and examination of the daily sample records from individual sites. The dates selected for separation of migratory cycles are averages over time for data that are not synchronous. This leads to a loss of definition but represents the general expectation until adequate phenological models for each species justify shifting the time scale for each site/year.

Periods for indeterminate flight activity for some species have been separated arbitrarily to show either continuation of the same geographical distribution or changed distribution not yet understood.

Layering intervals are numbered at each sampling site on the maps as follows:
1 (no shading), zero sample; 2, 1–2; 3, 3–9; 4, 10–31; 5, 32–99; 6, 100–315; 7, 316–999; 8, 1000–3161; 9 (solid black), 3162–9999.



*https://doi.org/10.23637/ERADOC-1-21* 

FIG. 17. 132, *Aphis fabae*: i, weeks 1–25; ii, weeks 26–38; iii, weeks, 39–52.



*https://doi.org/10.23637/ERADOC-1-21* 

FIG. 18. 389, *Acyrthosiphon pisum*: i, weeks 1–25; ii, weeks 26–36; iii, weeks 37–52.



*https://doi.org/10.23637/ERADOC-1-21* 

FIG. 19. 322, *Myzus persicae*: i, weeks 1–25; ii, weeks 26–35; iii, weeks 36–52.



*https://doi.org/10.23637/ERADOC-1-21* 

FIG. 20. 358, *Hyperomyzus lactucae*: i, weeks 1–25; ii, weeks 26–36; iii, weeks 37–52.



*https://doi.org/10.23637/ERADOC-1-21* 

FIG. 21. 420, *Sitobion avenae*: i, weeks 1–23; ii, weeks 24–39; iii, weeks 40–52.



*https://doi.org/10.23637/ERADOC-1-21* 

FIG. 22. 114, *Rhopalosiphum padi*: i, weeks 1–25; ii, weeks 26–34; iii, weeks 35–52.



*https://doi.org/10.23637/ERADOC-1-21* 

FIG. 23. 396, *Metopolophium dirhodum*: i, weeks 1–23; ii, weeks 24–36; iii, weeks 37–52.



*https://doi.org/10.23637/ERADOC-1-21* 

FIG. 24. 111, *Rhopalosiphum insertum*: i, weeks 1–26; ii, weeks 27–36; iii, weeks 37–52.



*https://doi.org/10.23637/ERADOC-1-21* 

FIG. 25. 410, *Macrosiphum euphorbiae*: i, weeks 1–25; ii, weeks 26–36; iii, weeks 37–52.



*https://doi.org/10.23637/ERADOC-1-21* 

FIG. 26. 421, *Sitobion fragariae*: i, weeks 1–26; ii, weeks 27–38; iii, weeks 39–52.



*https://doi.org/10.23637/ERADOC-1-21* 

FIG. 27. 355, *Nasonovia ribisnigri*: i, weeks 1–25; ii, weeks 26–34; iii, weeks 35–52.



*https://doi.org/10.23637/ERADOC-1-21* 

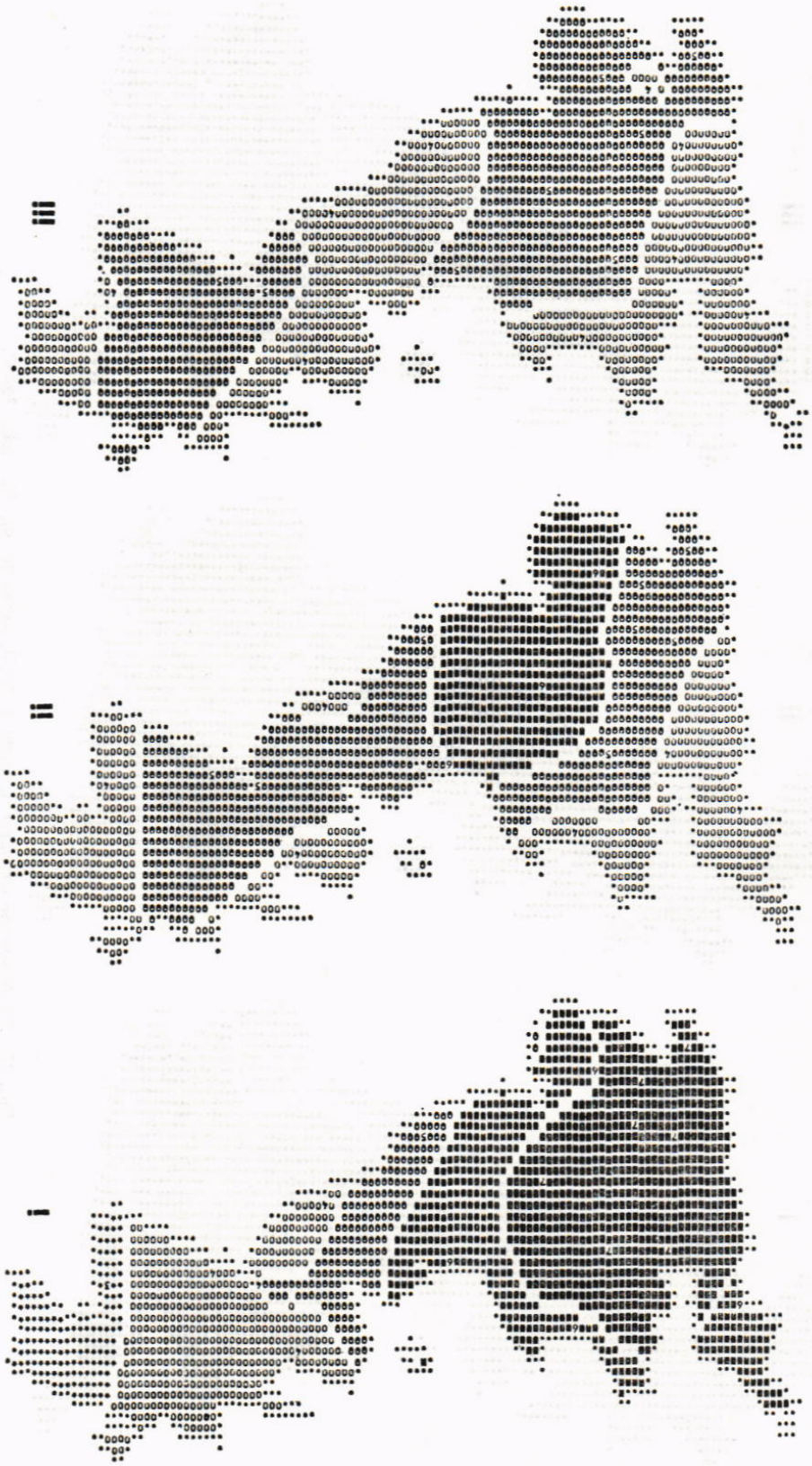

FIG. 28. 243, *Brachycaudus helichrysi*: i, weeks 1–26; ii, weeks 27–33; iii, weeks 34–52.



*https://doi.org/10.23637/ERADOC-1-21* 


FIG. 29. 292, *Cavariella aegopodii*: i, weeks 1–26; ii, weeks 27–37; iii, weeks 38–52.



*https://doi.org/10.23637/ERADOC-1-21* 


FIG. 30. 308, *Phorodon humuli*: i, weeks 1–34; ii, weeks 35–52.
264, *Brevicoryne brassicae*: iii, weeks 1–34; iv, weeks 35–52.



*https://doi.org/10.23637/ERADOC-1-21* 


FIG. 31. 110, *Hyalopterus pruni*; i, weeks 1–36; ii, weeks 37–52.
500, *Eriosoma ulmi*: iii, weeks 1–34; iv, weeks 35–52.



*https://doi.org/10.23637/ERADOC-1-21* 


FIG. 32. 91, *Drepanosiphum platanoidis*; i, weeks 1–29; ii, weeks 30–52.
397, *Metopolophium festucae*: iii, weeks 1–32; iv, weeks 33–52.



*https://doi.org/10.23637/ERADOC-1-21* 


FIG. 33. 112, *Rhopalosiphum maidis*: i, weeks 1–36; ii, weeks 37–52.
376, *Aulacorthum solani*: iii, weeks 1–36; iv, weeks 37–52.



*https://doi.org/10.23637/ERADOC-1-21* 


FIG. 34. 234, *Dysaphis plantaginea*: i, weeks 1–34; ii, weeks 35–52.
78, *Phyllaphis fagi*: iii, weeks 1–35; iv, weeks 36–52.



*https://doi.org/10.23637/ERADOC-1-21* 


FIG. 35. 290, *Elatobium abietinum*: i, weeks 1–52. 318, *Myzus ascalonicus*: ii, weeks 1–52.
315, *Myzus ornatus*: iii, weeks 1–52. 319, *Myzus certus*: iv, weeks 1–52.



*https://doi.org/10.23637/ERADOC-1-21* 