

# Habitat fragmentation pilot study: Insect mobility

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**Habitat fragmentation pilot study:**  
**Insect mobility**

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## **HABITAT FRAGMENTATION PILOT STUDY 1993**

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### **Project aims**

To develop and test a system of mass marking and recapture of insects applicable to the investigation of the effects of habitat fragmentation on woodland insects.

### **Project background**

For most woodland insect species the consequences of habitat fragmentation are largely unknown. There is a lack of detailed information on:

1. Minimum habitat size required by true woodland insects.
2. The extent to which 'edge' species penetrate into woodland areas
3. The mobility of woodland species within woodland blocks
4. The role edge structure, linking features and patterns of adjacent land-use play in influencing the movement patterns of individuals and hence their role in population isolation.

To address these questions it is critical to understand mobility patterns, but detailed investigations of single species are rarely feasible. They are time consuming, but more importantly information about individual species mobility is lacking and the types of species which may function as reliable indicators of the effects of fragmentation is uncertain.

To determine a suitable methodology a pilot study of mobility, using a grid of Malaise Traps in part of Grendon & Doddershall Wood, Bucks was undertaken from July to September 1993.

### **Study Site**

Grendon & Doddershall Wood are an extensive area of semi-natural ancient woodland in part of the Clay Vale of Oxfordshire and Buckinghamshire. Much of the woodland is impenetrable overgrown coppice, though coppicing is being revised in one part. The wood is surrounded by a mixture of permanent pasture, arable crop and set-aside, the last being on previously cultivated cereal fields.

Because of the nature of the site, only one location was found which was suitable for the requirements of the study; an area of woodland and an adjacent field where a grid could be established without the confounding factors of woodland on two sides of the open area and where the traps in the open area did not interfere with any agricultural practices.

The site selected (Figure 1) (N.G.Ref. SP700212) is on the eastern edge of Grendon Wood and at the time the Malaise Trap grid was established consisted of a part of the wood in which much of the old coppice had been cut, but left lying on the ground together with an adjacent set-aside field that had been cut in early June. The wood and field were separated by an untrimmed blackthorn hedge which extended approximately 8 metres beyond the original wood boundary (marked by a ditch and bank) into the field. This hedge was between 5 and 10 metres tall but had been opened (between traps 13 and 14) at one point to allow vehicle access to the wood.

### **Malaise Trap Grid**

Twenty-five Malaise traps were erected on 21-22 July in five rows parallel to the wood edge (Figure 1). Within row distances were 16m and between row distances 25m. Alternate rows were offset by 8 metres and all traps were orientated with their long axis parallel to the wood edge, an arrangement designed to maximise interception of between row movements. Rows containing traps 1-5 and 6-10 were in the field, the latter between 5 and 10 metres from the wood edge, dependent on the width of the blackthorn hedge. Trap line 11-15 was between 2 and 5 metres from the original wood boundary. This and trap line 16-20 were mostly in cleared coppice. At the start of the first pilot study trap line 21-25 was approximately 10 metres from uncleared coppice, but by the time the second study begun the coppice had been cleared a further 20-30 metres into the wood. Traps 11, 16, 20, 21, 24 and 25 were within uncleared coppice. In addition a single Malaise Trap (26) was erected in a bamboo frame and suspended at a height of approximately 6m. on the woodland side of trap line 21-25. This trap was suspended at the approximate height of the shrub canopy. It was not over the canopy as originally planned for two reasons. It could not be hauled through any nearby shrub vegetation and to erect it any further from the main grid of traps would greatly reduce the chance that any insects marked on the grid would be caught in this trap.

### **First trial**

With the exception of the central traps on the two outer and middle rows (Traps 3, 13 & 23) all traps were left without collecting vessels until 23 July. Insects were collected live in these central traps for a period of 24 hours. At the end of

this period the live collected insects from each trap were transferred to a large collecting jar containing a small quantity of U.V. fluorescent powder. This was gently rotated to dust the collected insects. Different colours were used at each location. Marked insects were released midway between adjacent trap lines (Figure 1). All traps were then set up for sampling by placing a small piece of Vapona™ (active ingredient dichlorvos vapour) in the upper collecting chamber of the trap head. Collected insects were removed after 48 hours and again after a total sampling period of 96 hours. Sampling was then continued until 2 August, a total duration of 240 hours since initial marking. All collected insects were sorted under a U.V. light source to identify any marked insects and then transferred to 70% alcohol.

### **Results of first trial**

Only one marked insect was recaptured.

### **Identified problems**

1. The number of marked insects was probably too low (c.150).
2. Cool showery weather during the study may have limited the number of live captures and subsequent recaptures over the experimental period.
3. There was some mortality of live collected insects, approximately 25% had died during the 24 hour collecting period. However, those which were marked and alive appeared to be fully active. Following the marking the top of the collecting vessel was removed and about 50% of marked insects actively flew away. The remainder were gently tipped onto the ground vegetation and after a period of about 5 minutes appeared to be fully active. Most had flown away, the remainder had actively moved to settle on vegetation and litter.
4. The long term effects of marking insects by dusting with powder and the retention time of these powders was not known.
5. There were additional problems associated with the trap heads, live insects tended to collect in the fixed, lower, vessel, as did the majority of dead insects. Their removal necessitated removal of the trap head from the Malaise Trap.

### **Modifications**

After consultation with Drs Martin Drake, Keith Kirby and Keith Porter it was decided to repeat the work but to mark more insects to increase the chance of recapture. To this end it was decided to live trap at all Malaise Traps but to use line specific marks. Although this eliminated any possibility of recognising any trap to trap movements the main aims of the investigation would not be

compromised. To reduce mortality during the live trapping period it was also decided to introduce egg-cartons into the vessels to provide shade and shelter. It was also decided to mark a selection of insects and retain these insects in caged conditions to determine whether dyes were retained for the duration of the investigation. It was also hoped that a window of warm and calm weather conditions would occur to improve the chance of success.

### **Retention of dyes.**

A random sample of insects (c.50) were collected by hand netting in an overgrown garden, and subjected to the same marking procedure as used in the Malaise trapping exercise, though they were not retained in a trap head for a maximum of 24 hours. They were then released into two 0.5m x 0.5 x 0.5m netted cages placed over a mixture of flowers in a partially shaded border. Both cages received full sun from 10.00 -12.00 a.m. After 48 hours seven insects had died and after 96 hours the cumulative number of deaths was 12. More importantly, powder was visible to the naked eye, though the amount had been reduced by cleaning and activity. All live insects were released.

### **Second trial**

Before this trial commenced all trap heads had been removed, cleaned with detergent and dried. However the first attempt at live trapping failed, with 100% mortality in all trap heads. Despite the cleaning it was obvious that the dichlorvos had migrated into the plastic of the trap heads. Trapping was continued until new heads were obtained.

Before trapping commenced further clearance of coppice growth had taken place, making Traps 21-25 a further 20 metres from the shrub edge.

Active live trapping commenced on 31 August 1993. The same marking technique was employed on 1 September as previously, but row specific colours were used. All marked insects were released midway between adjacent traps of the line on which they were captured i.e. 8 m from the location of capture.

Approximately 50-100 insects were marked and released from each trap. In this trial mortality during live capture still occurred but was less than previously.

These trap heads were removed and the original, contaminated heads restored, with Vapona™ sticks. Samples were collected after a period of 48 and 96 hours since the release of marked insects. Collected insects were sorted as before.

During the whole of this trapping period the weather was more suitable for insect flight activity but average temperatures and sunshine hours were below the seasonal average. There was no rainfall and low wind speeds during this period. At the end of this period all the traps were dismantled and removed.

## **Results of second trial**

More insects were recaptured than previously (Table 1). Although the total number of recaptures may appear low, making any interpretation difficult the overall analysis of movement demonstrates that there is inherent mobility in the species recaptured. Of equal interest is the location of field recaptures of woodland marked insects. Most of these were recaptured in those field traps nearest to the hedge gap. However detailed interpretation is dependent on comparison of the marked and unmarked samples. It should be assumed that the live trapped and released organisms are a random subset of the total unmarked insects captured at any location. Whether particular taxonomic groups or species are more likely to be recaptured than others is not known. Although most of the recaptured insects are Dipteran species the small number of recaptures probably precludes any detailed analysis.

## **Problems**

1. In this second trial problems still persisted with mortality during live trapping.
2. Weather may have reduced activity during the trial.
3. Continued clearance of the site immediately before the trial may also have reduced trap captures.

## **Interpretation and suggestions**

Overall, the technique has been shown to be of potential, and with refinement may prove of use in studies of fragmentation and mobility. It may also be applicable to the study of the use of linking features, especially linear corridors between sites.

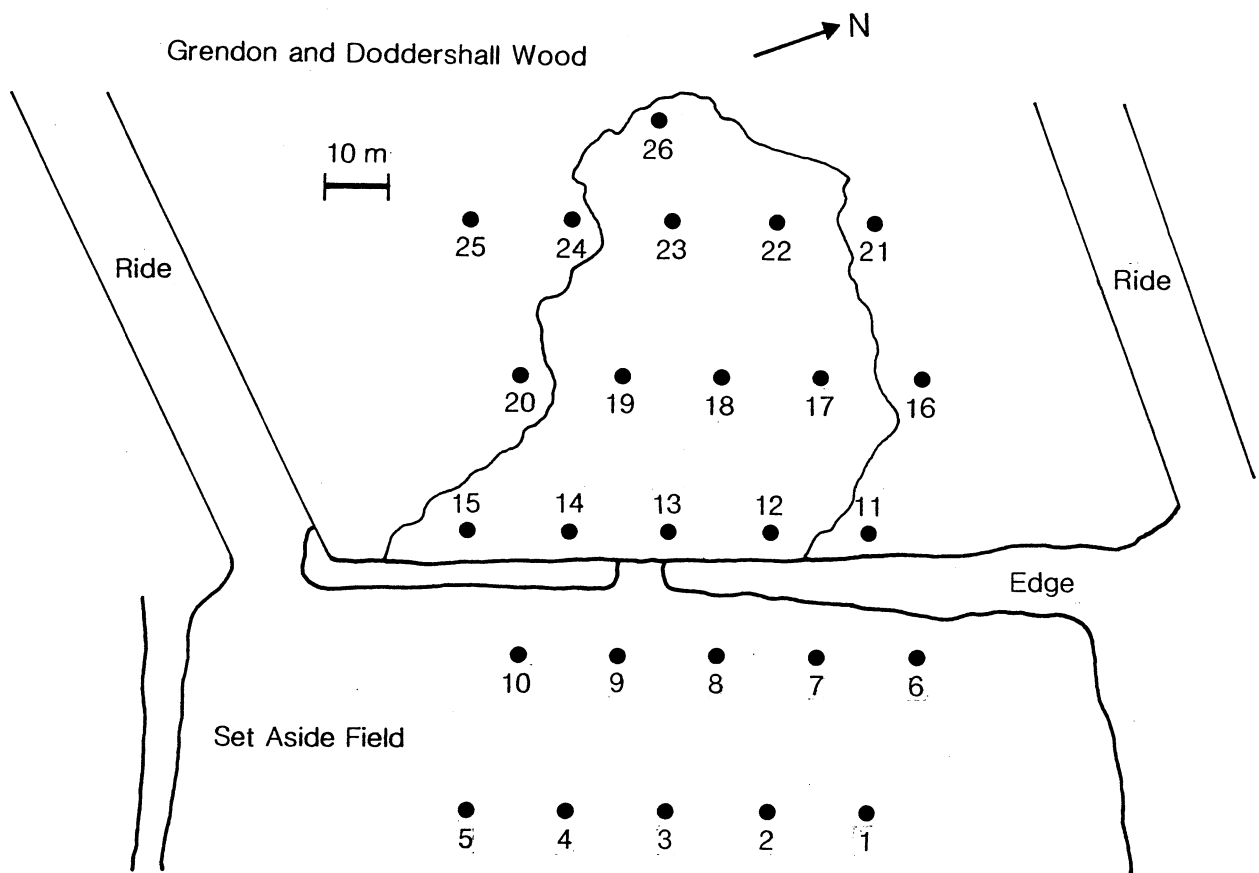
One of the major problems has probably been the study site itself. The area used was atypical of woodland because the only area where the traps could be erected was in the one area where coppicing was being regenerated. Over much of the site there was no shrub layer and much of the cut shrub layer was left on site. If this project is repeated a different woodland area must be selected.

The study was probably not undertaken at the best time of year, by the time new trap heads were available and a suitable window in the weather occurred it was the end of September. Given the generally poor weather in the mid and late summer of 1993 the second trap run was probably too late.



Improvements could be made to the method of marking. To overcome mortality during live trapping a shorter period of retention should be used, but this would compromise the total number of insects marked. In addition the actual number of marked insects is not known, in these trials only a visual estimate was made. To address both these problems a trap head could be designed for continuous marking and counting, using a system of powder coated baffles and a single exit with an associated counter. Such a counter could be produced using a custom electronics at a low cost. This method of marking would also be less labour intensive than that used here.





## **HABITAT FRAGMENTATION PILOT STUDY 1994**

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## SUMMARY

1. A mark-recapture exercise using Malaise traps was conducted in Brasenose Wood, Oxfordshire (N.G.Ref SP 560054) between 7 August and 9 September 1994 to evaluate the use of fluorescent powders and continuous live marking as a method of determining mobility patterns of woodland insects.
2. Three marking traps and 25 capturing traps were evenly spaced on a five row grid (15m between traps and 20 metres between rows) which crossed a gradient from within a coppiced woodland core to an uncultivated field adjacent to the wood. Traps were placed adjacent to the marking traps to enable the quantity of composition of the marked samples to be estimated.
3. Most recaptures were of Diptera and the frequency of recaptures is in accordance with that expected if insects were moving at random within the study site. Members of all families presumed to be marked were not recaptured.
4. The study has demonstrated that for the marked specimens the method can detect differences between the movements of insects initially marked in woodland, woodland edge and field locations. It may thus be a method which is suitable for the determination of edge effects and identification of minimal core size in studies of woodland fragmentation.
5. To improve recapture rates it is suggested that the number of marking traps is increased. This will only have a marginal effect on field work intensity and initial sorting of field collected insects.
6. The method may also be of use in determining long distance movements of insects between habitat patches.
7. For complete evaluation of the effectiveness of the method it is suggested that the method is applied on a larger spatial scale than that used here.

## **Aims of the 1994 field experiment**

To develop and test a system of mass marking and recapture of insects applicable to the investigation of the effects of habitat fragmentation on woodland insects.

## **Background to the trial**

1. Previous trials (1993) had used live Malaise trapping over a 24 hour period, marking with fluorescent powders and mass release followed by recapture at 48 and 96 hour intervals. Several problems were identified. These were: mortality during live trapping, low numbers of recaptures and unquantified numbers of unidentified species being released. The method was also labour intensive with frequent visits to the study site being required for both the marking procedure and during the recapture period.

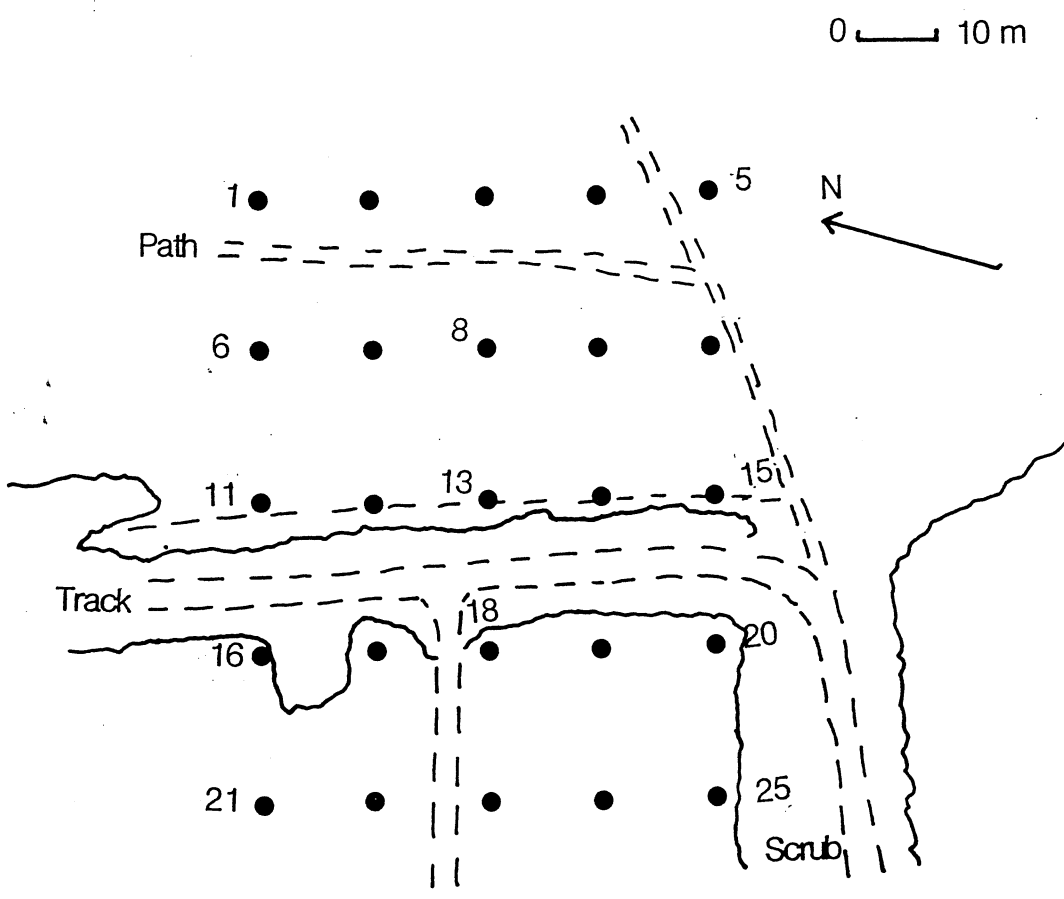
2. This years trial refined the method of marking, attempted to quantify the numbers of marked insects and reduced the number of man hours involved in the field work.

## **Study Site and Malaise Trap Grid**

All work was conducted in Brasenose Wood, Oxford, (N.G. Ref. SP 560054) part of Shotover Country Park owned by Oxford City Council. This area of semi-natural ancient woodland was selected for two reasons. First it is actively managed as coppice-with-standards and provides a site with a relatively stable management regime. It has a defined edge and in parts it has adjacent fields which are not under any commercial management regime, allowing traps to be placed outside the wood for prolonged periods without interfering with agricultural activities. The second criterion for its use was its proximity to Oxford Brookes University. The site had public access and the presence of park rangers was thought to circumvent any likely interference by the public. However, three traps were periodically interfered with during the study.

The site selected (Figure 1) was on the western edge of Brasenose Wood. The woodland part comprised of one compartment which had been coppiced in 1992 with vigorous coppice regrowth of approximately 2 to 5 metres. The woodland edge consisted of a tall (5 metres) blackthorn hedge, bordering a track and ditch and within the wood a further edge of between 5 and 10 metres width of mixed hazel, blackthorn and hawthorn of approximately 5 metres height. Outside the wood the Malaise trap grid extended into an area of scrub and grassland, the latter being mown annually in early July.

A grid comprising 25 trapping locations were established on 7 August 1994 with trap lines running parallel to the wood edge (Figure 1). Within row trap distances were designed to be 15m and between row distances 20m. Some slight variation in distances (max. 5 metres) were inevitable because of the presence of standards or an impenetrable shrub layer. Where this arose traps were kept on the trap lines but placed as near to the required location to provide a clear space for flight interception and to permit access. All traps were oriented N-S, parallel to the wood edge. Traps 1-5 and 6-10 were within the wood, traps 11-15 within the wood edge and adjacent to the edge and traps 16-20 and 21-25 in the field and scrub adjacent to the wood.



8, 13, 18 - marking traps



## Marking and recapture

Marking traps were butted in line against each of traps 8, 13 and 18. These traps were designed to continuously mark insects and were adjacent to existing traps so that the adjacent traps could provide a quantitative measure of the faunal composition of the marked insects. This method of enumeration was used in preference to the previously proposed method of electronic counters because in a pilot study of using these counters it was found that small insects (<2 mm long) did not always trigger the counter and insects passing the counter were occasionally counted multiple times if they 'hesitated' on their way past the counter. In addition, the use of counters alone provides no means of identifying what has been marked.

The marking traps were placed centrally in the grid to maximise the chance of marked insects being recaptured elsewhere. The marking traps consisted of 30 cm of 50 mm diameter plastic waste pipe with a glued lining of thick grade cotton bump (long pile brushed cotton). This tube replaced the normal trap head and was angled down to prevent ingress of moisture during rain. To begin marking the flocking was charged with powder dye (H.Haeffner & Co. Fiesta Daylight A series fluorescent colour range) by blowing powder into the tube using a reversed pooter. Trap 8 was charged with blue powder (Comet Blue 60), Trap 13 with pink (Astral Pink 1) and trap 18 with yellow (ARC Chrome A6). Each tube was initially charged on 7 August and then recharged at twice weekly intervals. Marking and release was continuous throughout the period of the study. All collecting was in conventional Malaise trap heads, insects were dry trapped and killed using Vapona sticks inserted in the upper part of the head. All traps were emptied at twice weekly intervals from 9 August to 9 September.

In the first week samples were sorted using a safe UV light source but a stronger UV source, used in a darkroom, was found to be more effective in detecting small quantities of fluorescent powders. All collected insects were sorted to identify marked insects. Those that were marked were further separated by the location of the traps where they were marked by the fluorescent colours. All sorted insects were retained in date and trap specific tubes in 70% alcohol. In addition insects from Traps 8, 13 and 18 (adjacent to the marking traps) and from those from Traps 5, 7, 14, 19 and 21 were subdivided into Coleoptera, Diptera, Hymenoptera and other orders to facilitate comparison of marked fractions, the three named orders being the most abundant recaptured orders. Coleoptera were identified to the species level by Alex Williams and the Diptera from Traps 8, 13 and 18 only by Peter Chandler. Hymenoptera were separated out but not identified.

## Results

### Marking and sorting

In comparison to the method employed last year, it was evident that the continuous method of marking insects was a highly efficient method of mass marking. The actual number of insects that were marked was not enumerated. After preliminary observations of the action of one trap over a two hour period, when insects were observed leaving the marking tube, it was concluded that the marking method was suitable for the trial. The tube itself with its lining provided approximately 10 mm clear space in the centre of the tube. As the tube was 30 cm long it would be highly

unlikely that an insect would be able to fly through this tube without coming into contact with the powder.

If it is assumed that the collecting traps adjacent to the marking traps provide a fair representation of what is marked then the running of a collecting trap next to the marking trap provides a quick field method to enable the numbers and composition of the marked samples to be determined. However, the accurate identification of what is marked requires specialist time but can provide valuable information. This is best illustrated by the detailed analysis of the Diptera (Appendix 1) provided by Peter Chandler. Simple enumeration of what is collected can be much quicker; to count to order takes approximately 1-2 hours with moderate to large samples if the sorter can identify the most common orders with ease.

The powders selected for this trial came from the Daylight A series range produced by H.Haefner & Co. Of the three colours, yellow proved to be slightly unstable in the field, deteriorating to an orange colour over a period of about seven days. However, this colour change did not affect the stability of fluorescence under UV light.

Marked insects were never covered in powder and to the naked eye it was not obvious if they were marked. Marked insects could only be determined by the presence of powder grains trapped at, for example, the wing base, on hairs or on the leg joints. With the method adopted it was possible to determine that some insects had been double marked, entering two different marking tubes. One problem identified was that some flies had fluorescent patches on their wings identical to that produced by the blue powder. Determination of whether they were marked or not could be decided by the extent of the fluorescence and its location. Marked individuals had obvious patches of powder. However, this effect raises doubts about the efficiency of using this particular powder in the marking tube. Such a powder may present a UV stimulus to certain insect species and it could act as a stimulus for avoidance or act as an attractant.

### **Recapture data**

Total recapture numbers for all marked species are shown in Appendix 1. The majority of recaptures were of Dipteran species. Recaptures were identified from all traps except trap 15. The numbers of marked and recaptured Coleoptera and Diptera from each of the marking traps is shown in Table 1 and 2. Full species lists of Diptera and Coleoptera are shown in Appendix 2 and 3.

Of importance to the determination of the effectiveness of the trapping exercise is a comparison of recapture rates with that expected by chance. Malaise traps operate as interception traps and are dependent on insect flight activity. It is possible to calculate the probability of recapture from either the area of the trap baffle or the volume that an individual trap samples. To use the former assumptions have to be made about the linearity of insect flight and flight step length between turns. In addition the proportion of the total ground area that an individual trap samples has to be calculated in relation to each marking trap. This is dependent on trap orientation to the marking trap and inter-trap distance. As the traps were not exactly positioned on the marking grid such a calculation cannot be made and the prime assumption of linearity of flights from a marking trap may also invalidate such a calculation. A less

Table 1. The number of marked and recaptured Coleoptera in Brasenose Wood, 9 August to 9 September 1994.

SPECIES RECAPTURED	NUMBER MARKED AT TRAP			NO. RECAPTURED FROM TRAP		
	8	13	18	8	13	18
<i>Coccinella septempunctata</i>	1	0	3	0	1	1
<i>Propylea quattuordecimpunctata</i>	14	2	12	0	0	2
<i>Longitarsus luridus</i>	65	54	44	1	0	0
All other Coleoptera	240	273	176	0	0	0

Table 2. The number of marked and recaptured Diptera in Brasenose Wood, 9 Aug. to 9 Sep. 1994

SPECIES	TRAP 8		TRAP 13		TRAP 18	
	Marked	Recaptured	Marked	Recaptured	Marked	Recaptured
<b>TIPULIDAE</b>						
<i>Tipula paludosa</i>	1		0	1	2	1
<b>KEROPLATIDAE</b>						
<i>Neoplatyura modesta</i>	4		2		9	1
<b>MYCETOPHILIDAE</b>						
<i>Acnemia nitidicollis</i>	30		16	1	9	
<i>Mycetophila fungorum</i>	1			1		
<b>DOLICHOPODIDAE</b>						
<i>Medetra abstrusa</i>	5	1	1		3	
<i>Medetera truncorum</i>	5		1		34	2
<i>Medetera sp.</i>	1		1	1		
<b>PHORIDAE</b>						
<i>Diplonevra concinna</i>	12	1	9		1	
<i>D. nitidula</i>	65		95		61	1
<i>D. pilosella</i>	11		22	1	59	
<i>Diplonevra sp.</i>	7	1	4	1	21	1
<i>Megaselia sp.</i>	220		172	1	593	4
<b>SYRPHIDAE</b>						
<i>Episyrphus balteatus</i>	36		7	2	45	2
<i>Epeodes latifasciatus</i>		1			1	
<i>Sphaerophoria scripta</i>		1				
<i>Helophilus pendulus</i>		1	1		1	
<b>DRYOMYZIDAE</b>						
<i>Dryomyza analis</i>	1		2	1	1	
<b>SCIOMYZIDAE</b>						
<i>Coremacera marginata</i>		2				
<b>HELEOMYZIDAE</b>						
<i>Suillia affinis</i>	1		2	1	3	
<i>S. bicolor</i>			1	1		
<i>S. ustulata</i>		1				
<i>S. variegata</i>	7	1	10		6	
<b>EPHYDRIDAE</b>						
<i>Hydrellia sp.</i>						1
<i>Limnelli quadrata</i>	11				4	1
<b>ANTHOMYIIDAE</b>						
<i>Delia/Botanophila sp.</i>	49	1	16		112	1
<i>Emmesomyia socia</i>	2		21	1	9	
<i>Eutrichota praepotons</i>				1		
<i>Hylemya vagans</i>	7		30	1	6	2
<i>H. variata</i>	2			1	1	
<i>Pegoplata nitidicauda</i>			3		3	3
<b>MUSCIDAE</b>						
<i>Hydrotaea irritans</i>	11		16	2	222	1
<i>Polietes lardarius</i>	9		6		19	2
<i>Phaonia angelicae</i>	2		3		12	1
<i>P. errans</i>	2	1	1		3	1
<i>P. valida</i>	10	3	6	4	19	13
<i>Helina depuncta</i>	7		17	3	24	2
<i>H. impunctata</i>	1		8	1	29	3
<i>Coenosia mollicula</i>		1	1		2	
<b>FANNIDAE</b>						
<i>Fannia sp.</i>	36		36	1	57	
<b>CALLIPHORIDAE</b>						
<i>Calliphora vicina</i>			2	1	1	
<i>Lucilia caesar</i>	1		2		10	1
<b>SARCOPHAGIDAE</b>						
<i>Sarcophaga carnaria</i>		1	2	3	6	7
<i>S. subvicina</i>					3	2
<i>S. variegata</i>		1			2	2
<i>Sarcophaga sp.</i>	3		4	1	40	3
All other Diptera	548		762		1513	
Grand total	1108		1282		2946	

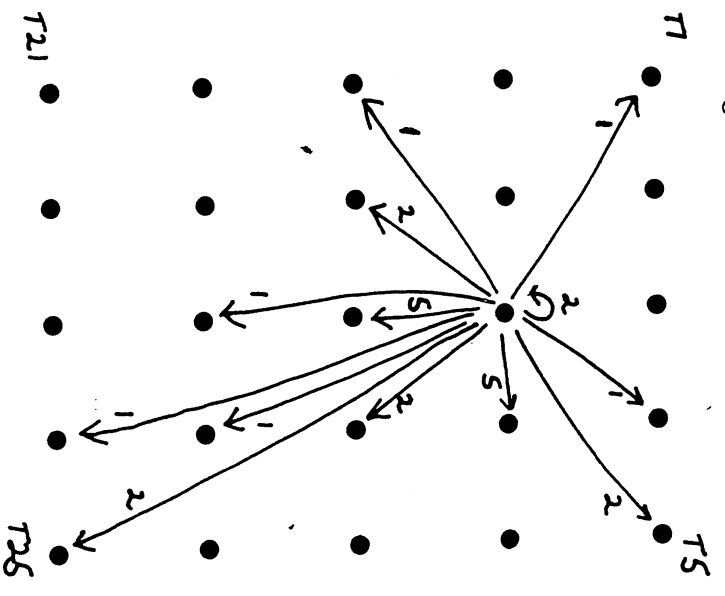


Fig 2 All species marked in wood

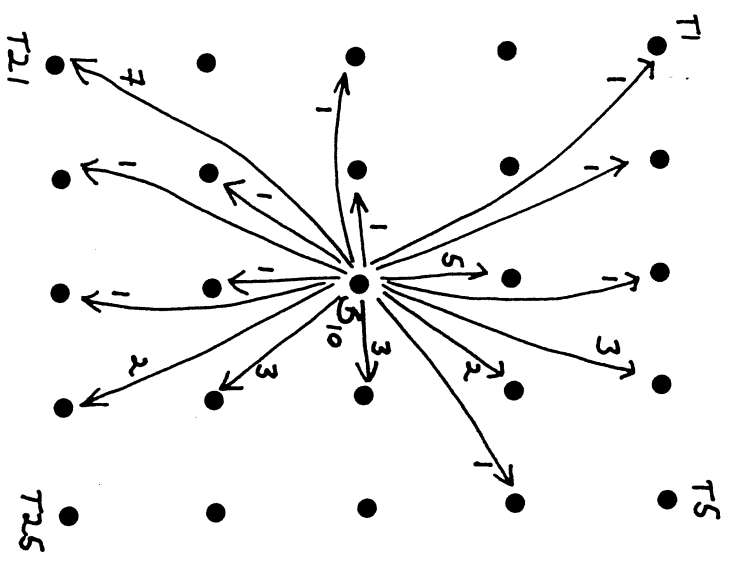


Fig 3 All species marked in edge

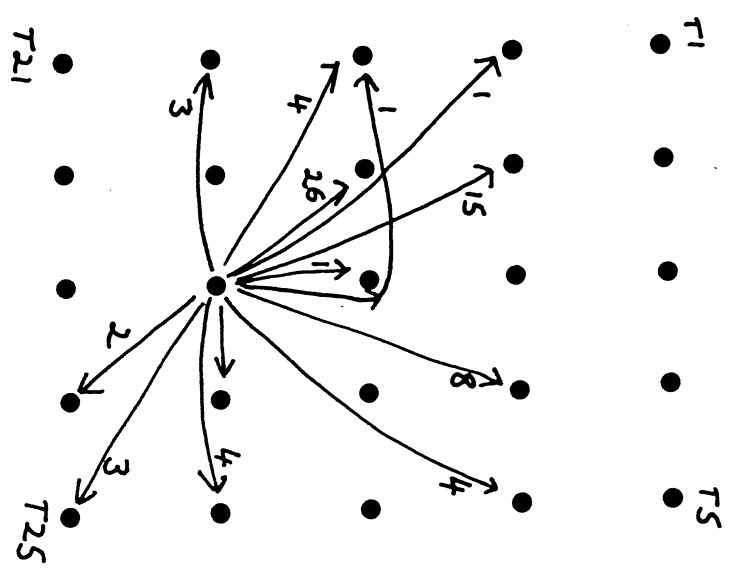


Fig 4 All species marked in field



assumptive estimate of recapture probability can be made by comparing the total volume of sampling traps with the volume of the area that the traps occupy. This method makes no assumptions about insect flight directions, step lengths and turn angles. Given that one single Malaise trap samples 1.8 m<sup>3</sup> and the total woodland volume sampled was between 4800m<sup>3</sup> (if traps define the corners of the grid) and 7500m<sup>3</sup> (if the sampling area is considered to be the area covered by the grid and half the distance to the next trap). Thus the chance of any individual being recaptured with a grid of 25 traps is between 1 in 107 and 1 in 167 if all traps are equally likely to capture any insect and insects move in a random fashion. Thus the variable recapture numbers for the most numerous recaptured group, the Diptera, represent a good rate of recapture. Overall, Dipteran recapture rates were approximately 1 in 50. There may be variation between the recapture rates of individual species but for the majority of species sample numbers are too small to allow any statistical significance to be placed on recapture rate values, thus they are not given.

From the recapture data mobility maps for all species combined, and for the Diptera, Coleoptera, Hymenoptera and others are shown in Figures 2-7. The method can be used to detect non-random movements within this study site and differences in mobility between insects caught in woodland, edge and field locations. It can also be used to detect different mobility patterns of different species groups. For all insect species marked within the wood the majority of recaptures were within the wood or the wood edge, with few individuals moving into the field traps (Figure 2). Those that did were only captured in those traps nearest to the thick hedge at the southern boundary of the field. This data may be interpreted to suggest that such a feature may promote mobility. For insects originally marked within the wood margin (Trap 13) individuals were recaptured within the wood, the edge and the field, but of those moving into the field there was a strong directionality of movement, the majority moving westward (Figure 3). The largest number of movements detected were from the field trap (Trap no. 18). Most movements were to the wood edge and no recaptures were made within trap line 1-5, which was the furthest from the wood edge (Figure 4).

Because of recapture sample sizes only the Diptera samples warrant consideration of their mobility patterns (Figure 5-7). Since these constitute the bulk of the recaptured specimens the general pattern of mobility outlined above is the result of mobility of these organisms. The bulk of the detected movements are of *Phaonia valida* (Muscidae), and of members of the Sarcophagidae particularly of individuals originally marked in the field. Not all of the Diptera families presumed to have been marked (having been caught in Traps 8, 13 and 18) were recaptured (Table 2), and only subsets of the captured families were recaptured. movements of individuals of Diptera are shown in Table 3. Although the data must be approached with caution, if the recorded movements are truly representative there is some evidence for species specific movements between wood, edge and field locations and also for differences in the distances they moved between marking and recapture. For example most recaptures of *Episyrphus balteatus* indicate that the majority of recaptured individuals move between field and edge habitats, that *Phaonia valida* is wide ranging but most recaptures were within wood and edge locations and *Sarcophaga carnaria* essentially restricted to field and edge locations. However, recapture data must be considered with the actual unmarked samples (see Appendix 3) if any interpretation of location specific data is to be made. In addition recapture data can be used to define individual movements but the probability of recapture in particular locations may be influenced by habitat specific resource availability and quality and movement

Table 3. The movement of Dipteran species between wood, edge and field locations.

SPECIES	No of individuals marked in wood recaptured in			No of individuals marked in edge recaptured in			No of individuals marked in field recaptured in		
	Wood	Edge	Field	Wood	Edge	Field	Wood	Edge	Field
TIPULIDAE									
<i>Tipula paludosa</i>						1		1	
KEROPLATIDAE									
<i>Neoplatyura modesta</i>					1		1		
MYCETOPHILIDAE									
<i>Acnemia nitidicollis</i>				1					
<i>Mycetophila fungorum</i>					1				
DOLICHOPODIDAE									
<i>Medetra abstrusa</i>	1	0	0						
<i>Medetera truncorum</i>								1	
<i>Medetera sp.</i>				1					1
PHORIDAE									
<i>Diplonevra concinna</i>	0	1	0						
<i>D. nitidula</i>				1			1		
<i>D. pilosella</i>						1			
<i>Diplonevra sp.</i>	1	0	0				1		
<i>Megaselia sp.</i>						1	4		
SYRPHIDAE									
<i>Episyrphus balteatus</i>				2			1	1	
<i>Epeodes latifasciatus</i>	0	0	1						
<i>Sphaerophoria scripta</i>	0	0	1						
<i>Helophilus pendulus</i>	0	0	1						
DRYOMYZIDAE									
<i>Dryomyza analis</i>				1					
SCIOMYZIDAE									
<i>Coremacera marginata</i>	0	0	2						
HELEOMYZIDAE									
<i>Suillia affinis</i>					1				
<i>S. bicolor</i>					1				
<i>S. ustulata</i>	1	0	0						
<i>S. variegata</i>	0	1	0						
EPHYDRIDAE									
<i>Hydrellia sp.</i>									1
<i>Limnella quadrata</i>								1	
ANTHOMYIIDAE									
<i>Delia/Botanophila sp.</i>	0	1	0				1		
<i>Emmesomyia socia</i>						1			
<i>Eutrichota praepotons</i>				1					
<i>Hylemya vagans</i>					1		1	1	
<i>H. variata</i>					1				
<i>Pegoplata nitidicauda</i>							2	1	
MUSCIDAE									
<i>Hydrotaea irritans</i>					1	1	1		
<i>Polietes lardarius</i>								1	
<i>Phaonia angelicae</i>							1		
<i>P. errans</i>	1	0	0				1		
<i>P. valida</i>	4	0	1	2	3		6	7	1
<i>Helina depuncta</i>					2			1	1
<i>H. impunctata</i>						1	3		
<i>Coenosia mollicula</i>	0	0	1						
FANNIDAE									
<i>Fannia sp.</i>				1					
CALLIPHORIDAE									
<i>Calliphora vicina</i>						1			
<i>Lucilia caesar</i>							1		
SARCOPHAGIDAE									
<i>Sarcophaga carnaria</i>	0	0	1	1	1	3	2	4	1
<i>S. subvicina</i>							1		1
<i>S. variegata</i>	1						2		
<i>Sarcophaga sp.</i>						1	1	1	1

Wood - Traps 1-10; Edge - Traps 11-15; Field - Traps 16-25.



itself. If movement is influenced by habitat type then there may be a higher probability of recapture in those areas which induce the greatest movement. If resources are scarce individuals may engage in more frequent and longer distance movements than in more favourable areas. Although they may remain in resource poor areas for shorter periods than in high quality areas they may be more likely to be captured in an interception trap. In addition the probability of an individual being recaptured will be influenced by the relationship between mean inter-trap distance and mean flight length. Recapture frequencies are likely to be greater where mean flight lengths are greater than mean trap distances. If flight distances are negatively correlated with resource availability then recapture probabilities will be biased towards resource poor areas because of an increasing tendency for individuals to more frequently engage in flights which are of greater distances than mean inter-trap distances.

## Evaluation of method

The method piloted in this study has demonstrated:

1. The marking method is applicable to a range of insect species, and can be run in the field with minimal effort once Malaise traps are erected.
2. Running traps in parallel with marking traps will provide an indication of the quantity and composition of the marked species.
3. The detection of movement can be achieved by looking for retained fluorescent powders but this requires the use of a strong UV source in a dark room to detect traces of powder.
4. The method may be applicable to evaluating the role of habitat features in mobility and the initial pilot has shown that there are differences between the mobility of insects marked within woodland, woodland edge and field locations.
5. It is highly unlikely that large numbers of marked insects will be recaptured using this method. If the method is taken up it is desirable to increase the number of marked insects to increase the chance of detecting movements and to increase the range of insects that are likely to be recaptured. One suggestion is to increase the number of marking traps or the size of marking traps to sample a larger volume of habitat at any given location. Alternatively more marking traps could be set out over any study site. There are about 20 different colours of fluorescent powder dyes produced by the source company used here (though the UV signal given off by the whole range has not been investigated). The possibility therefore remains to increase the range of site specific marks up to seven-fold in comparison with that used here.
6. The method is likely to be of use in addressing issues relating to overall patterns of mobility in relation to habitat heterogeneity and colonising ability. It will be of use in determining the distance to which non-woodland species move into woodland as part of their normal activity and thus be of use in determining how small woodland areas can be for them to retain a true woodland core.
7. The method may be useful in detecting occasional long distance movements between isolated habitat patches, but its use in such a situation would require thorough evaluation. No attempt has been made in this pilot to scale up the spatial scale over which the method can be applied.



## APPENDIX 1

The number of trap specific recaptures for each resampling period, 9 August to 9 September 1994, Brasenose Wood Insect mobility pilot study.



**BRASENOSE WOOD MARK-RECAPTURE TRIAL**

SAMPLE COLLECTION DATE: 9TH AUG 1994

TRAP	RECAPTURES											
	YELLOW				PINK				BLUE			
	Diptera	Hymenoptera	Coleoptera	Others	Diptera	Hymenoptera	Coleoptera	Others	Diptera	Hymenoptera	Coleoptera	Others
1												
2												
3												
4												
5												
6												
7			1									
8												
9												
10												
11												
12									1			
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												

**BRASENSE WOOD MARK-RECAPTURE TRIAL**

SAMPLE COLLECTION DATE: 12TH AUG 1994

TRAP #	YELLOW				PINK				BLUE			
	Diptera	Hymenoptera	Coleoptera	Others	Diptera	Hymenoptera	Coleoptera	Others	Diptera	Hymenoptera	Coleoptera	Others
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												

BRASENORSE WOOD MARK-RECAPTURE TRIAL

SAMPLE COLLECTION DATE: 16TH AUG 1994

TRAP #	RECAPTURES											
	YELLOW			PINK			BLUE					
	Diptera	Hymenoptera	Coleoptera	Others	Diptera	Hymenoptera	Coleoptera	Others	Diptera	Hymenoptera	Coleoptera	Others
1												1 Hemiptera
2												
3												
4					2							
5									2			
6		1					1 Lepidoptera					
7	2											
8												
9											1	
10	1											
11												
12	7	1	1	1 Neuroptera					1			
13	missing											
14									1			
15												
16	1											
17												
18												
19												
20												
21					4					1		
22												
23												
24	2											
25				1 Lepidoptera					1		1	



BRASENOSE WOOD MARK-RECAPTURE TRIAL

SAMPLE COLLECTION DATE: 18TH AUG 1994

TRAP	YELLOW				RECAPTURES				PINK				BLUE			
	Diptera	Hymenoptera	Coleoptera	Others	Diptera	Hymenoptera	Coleoptera	Others	Diptera	Hymenoptera	Coleoptera	Others	Diptera	Hymenoptera	Coleoptera	Others
1																
2					1											
3																
4																
5	missing												1			
6																
7																
8																
9	2												2			
10	1				1											1 Hemiptera
11	1			1 Lepidoptera												
12	2															
13																
14																
15																
16																
17																
18																
19																
20	1			1 Hem 2 Lep												1 Lepidoptera
21					3											
22																
23																
24																
25	1			1 Lepidoptera												

**BRASENOSE WOOD MARK-RECAPTURE TRIAL**

SAMPLE COLLECTION DATE: 23rd AUG 1994

TRAP	RECAPTURES											
	YELLOW				PINK				BLUE			
	Diptera	Hymenoptera	Coleoptera	Others	Diptera	Hymenoptera	Coleoptera	Others	Diptera	Hymenoptera	Coleoptera	Others
1						1						
2												
3												
4												
5												
6												
7	1	1		1 Hemiptera								
8					2							
9					1							
10												
11	2											
12	2		1									
13					1							
14												
15												
16	1											
17												
18												
19												
20												
21												
22												
23					1							
24												
25												

**BRASENOSE WOOD MARK-RECAPTURE TRIAL**

SAMPLE COLLECTION DATE: 26TH AUG 1994

TRAP	YELLOW				PINK				BLUE			
	Diptera	Hymenoptera	Coleoptera	Others	Diptera	Hymenoptera	Coleoptera	Others	Diptera	Hymenoptera	Coleoptera	Others
1												
2												
3												
4												
5												
6												
7	1											
8				1 Hemiptera								
9	3	1		1 Ephemopt	1							
10	1	1										1 Hemiptera
11	1 (& Pink)				see to left							
12	4											
13												
14					1	1						
15												
16												
17												
18												
19												
20					2							
21												
22												
23												
24												
25												

1 Lepidoptera

**BRASENORSE WOOD MARK-RECAPTURE TRIAL**

SAMPLE COLLECTION DATE: 30TH AUG 1994

TRAP	RECAPTURES											
	YELLOW				PINK				BLUE			
	Diptera	Hymenoptera	Coleoptera	Others	Diptera	Hymenoptera	Coleoptera	Others	Diptera	Hymenoptera	Coleoptera	Others
1												
2												
3					1							
4												
5												
6												
7	5											
8									1			
9												
10												
11												
12	3											
13	1 (& Pink)				2							
14					1							
15												
16	1											
17												
18												
19												
20												
21												
22												
23												
24												
25												

**BRASENDOSE WOOD MARK-RECAPTURE TRIAL**

SAMPLE COLLECTION DATE: 2nd SEPT 1994

TRAP	YELLOW				PINK				BLUE			
	Diptera	Hymenoptera	Coleoptera	Others	Diptera	Hymenoptera	Coleoptera	Others	Diptera	Hymenoptera	Coleoptera	Others
1												
2												
3												
4							1					
5												
6												
7												
8												
9												
10												
11												
12												
13						2						
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24						1						
25												

**BRASENOSE WOOD MARK-RECAPTURE TRIAL**

SAMPLE COLLECTION DATE: 6TH SEPT 1994

TRAP	RECAPTURES											
	YELLOW			PINK			BLUE					
	Diptera	Hymenoptera	Coleoptera/ Others	Diptera	Hymenoptera	Coleoptera/ Others	Diptera	Hymenoptera	Coleoptera/ Others			
1												
2												
3												
4												
5												
6												
7	1											
8				1								
9												
10						1 Hemiptera						
11												
12	3	1		1							1	
13				2								
14				1								
15												
16												
17				1								
18												
19												
20												
21												
22												
23												
24												
25												

# BRASENSE WOOD MARK-RECAPTURE TRIAL

SAMPLE COLLECTION DATE: 9TH SEPT 1994

TRAP	YELLOW				PINK				BLUE			
	Diptera	Hymenoptera	Coleoptera	Others	Diptera	Hymenoptera	Coleoptera	Others	Diptera	Hymenoptera	Coleoptera	Others
1												
2												
3												
4												
5												
6												
7												
8												
9	1											
10												
11												
12	1											
13					1							
14												
15												
16												
17												
18												
19	missing											
20												
21												
22												
23												
24					1							
25												

## APPENDIX 2

The number of Coleoptera species identified from Traps 8, 13, 18 and 5,7, 14, 19 and 21, from 9 August to 9 September 1994, Brasenose Wood Insect mobility pilot study. (As supplied by Alex Williams).





MARKED BEETLE NUMBERS -FROM ADJACENT TRAPS TO MARKING TRAPS

SPECIES	TRAP 8							TRAP 13							TRAP 18													
	Date	9.8	16.8	18.8	23.8	30.8	30.8	2.9	6.9	9.9	Date	9.8	12.8	18.8	23.8	26.8	6.9	9.9	Date	9.8	12.8	16.8	18.8	23.8	26.8	30.8	2.9	6.9
<i>Coccinella septempunctata</i>						1														1		2						
<i>Propylea quattuordecimpunctata</i>	12			1				1					1							3		4	1	2				
<i>Sitona lineatus</i>				1																	1	1	1					
<i>S. hispidulus</i>																							2					
<i>Longitarsus luridus</i>	8	18	3	20	6			5	2			15	11	5	9	1	12	1		5	10	6	2			10		1
<i>L. melanocephalus</i>																						1						
<i>L. kutscherae</i>				1	1																							
<i>Aphthona euphorbiae</i>	20	40	25	8	16	5	30	6				35	78	25	5	11	44	7		10	28	19	8	8	4	32	1	4
<i>A. herbigradus</i>																												
<i>Oulema melanopa</i>																												
<i>Philanthus cognatus</i>				1				1	1				1											1	1			
<i>P. varius</i>													1															
<i>Chaetocnema hortensis</i>												1																
<i>Rhynchaenus quercus</i>																												
<i>Atomaria lewisii</i>																												
<i>Phyllotreta undulata</i>												1																
<i>Meligethes aeneus</i>	1			1								2																
<i>M. nigrescens</i>																												
<i>Tachinus pallipes</i>																												
<i>Nargus velox</i>																												
<i>Protapion fulvipes</i>																												
<i>Ptomophagus sericeatus</i>																												
<i>Trixagus carinifrons</i>	1																											
<i>Circulio nucum</i>	1																											
<i>Lordithon thoracicus</i>																												
<i>Trichapion simile</i>																												
<i>Mordellistena humerolis</i>																												
<i>Altica oleracea</i>																												
<i>Nicrophorus vespilloides</i>																												
<i>Cortinicara gibbosa</i>																												
<i>C. similata</i>																												
<i>Tachyporus hypnorum</i>																												
<i>Balanobius salicivorus</i>																												
<i>Brachypterus glaber</i>																												
<i>Xantholinus linearis</i>																												
<i>Catops coracinus</i>																												
<i>Aspidiphorus orbiculatus</i>																												



SPECIES	TRAP 19										TRAP 21									
	Date										Date									
	2.9	9.8	16.8	12.8	18.8	23.8	26.8	2.9	6.9	9.8	12.8	16.8	18.8	23.8	26.8	30.8	9.9			
<i>Coccinella septempunctata</i>		3	1					1		2	1	2	2	2						
<i>Propylea quattuordecimpunctata</i>		3		1		1				4	1	2		5	1	1	1			
<i>Sitona lineatus</i>			2			5	1	2	1	1		1		1	1					
<i>S. hispidulus</i>																				
<i>Longitarsus luridus</i>		2	5	1		2		5		2		2		6	1					
<i>L. melanocephalus</i>																				
<i>L. kutscherae</i>																				
<i>Aphthona euphorbiae</i>	10	5		30	4	1	2	1	2	1	1	7		2	2		2			
<i>A. herbigradus</i>			8																	
<i>Oulema melanopa</i>					1															
<i>Phylanthus cognatus</i>					3															
<i>P. varius</i>																				
<i>Chaetocnema hortensis</i>																				
<i>Rhynchaenus quercus</i>																				
<i>Atomaria lewisii</i>																				
<i>Phyllotreta undulata</i>		1		1		1						1								
<i>Meligethes aeneus</i>		6	2	2	2					5	1	2	1							
<i>M. nigrescens</i>		2	4							3					1					
<i>Tachinus pallipes</i>																				
<i>Nargus velox</i>																				
<i>Protapion fulvipes</i>																				
<i>Ptomophaeus sericatus</i>			1																	
<i>Trixagus carinifrons</i>																				
<i>Circulio nucum</i>																				
<i>Lordithon thoracicus</i>																				
<i>Trichapion simile</i>																				
<i>Mordellistena humerolis</i>																				
<i>Altica oleracea</i>										1										
<i>Nicrophorus vespilloides</i>															1					
<i>Contricara gibbosa</i>					1								1							
<i>C. similata</i>																				
<i>Tachyporus hypnorum</i>		1																		
<i>Balanobius salicivorus</i>		1																		
<i>Brachypterus glaber</i>																				
<i>Xantholinus linearis</i>																				
<i>Catops coracinus</i>																				
<i>Aspidiphorus orbiculatus</i>																				



### **APPENDIX 3**

Complete species list of Dipteran species caught in Traps 8, 13 and 18, together with recaptures, from 9 August to 9 September 1994, Brasenose Wood Insect mobility pilot study. (As supplied by Peter Chandler).



# IDENTIFICATION OF DIPTERA FROM THE INSECT MOBILITY PILOT STUDY

## Summary

Diptera were identified from this study which was to investigate how far insects move across a woodland-meadow boundary. The material examined was collected by a grid of 25 Malaise traps set up in 5 rows, 2 within a wood, 1 along the boundary and 2 within the field. Three additional traps placed in these three locations were fitted with devices that automatically dusted insects escaping, using fluorescent dyes of three different colours (pink, yellow and blue) to identify their origin.

The recaptured specimens were received in 66 tubes, labelled according to the trap number, date of emptying and dye colour. All recaptured Diptera from all ten trapping occasions were identified as far as practicable. These are listed under the details stated on the tubes in order of date and trap number. The 15 families recaptured are listed in order of abundance of specimens and species and a full list of the 42 taxa recognised is given.

All Diptera in 29 Malaise trap samples received were identified as far as practicable. These were from Traps 8, 13 and 18 and were labelled with the date of emptying. The traps had been emptied on ten occasions, but the 16th August samples from Traps 13 and 18 were absent as was the 9th September sample from Trap 18. The large 9th August sample from Trap 18 was received in two tubes as was the smaller 9th September sample from Trap 13.

The samples were thus as follows:

	Trap 8	Trap 13	Trap 18
9th August	1	1	2
12th August	1	1	1
16th August	1	-	-
18th August	1	1	1
23rd August	1	1	1
26th August	1	1	1
30th August	1	1	1
2nd September	1	1	1
6th September	1	1	1
9th September	1	2	-

A full check list was compiled for all species identified, a little over 360 species being recognised, 345 of them identified to specific level. Four of the recaptured species were not otherwise found in any of the samples. Lists are also provided of all species present in each of the three traps, and for each of the 29 samples. The contents of the two tubes for the 9th August sample from Trap 18 and 9th September sample from Trap 13 samples are listed separately.

Peter Chandler





LIST OF RECAPTURED DIPTERA FROM ALL TRAPS

Tubes are listed in order of date.

Trap Numbers are given in bold for Traps 1-25

9.8 <b>12</b> 1 blue	<i>Diplonevra concinna</i> (Meigen) 1♂
9.8 <b>19</b> 1 yellow	<i>Phaonia valida</i> (Harris) 1♀
16.8 <b>2</b> 7 yellow	<i>Phaonia valida</i> (Harris) 2♀ <i>Sarcophaga carnaria</i> (Linnaeus) 1♂ <i>S. subvicina</i> Rohdendorf 1♂ <i>Sarcophaga</i> species 1♀ <i>Diplonevra</i> species 1♀ <i>Neoplatyura modesta</i> (Winnertz) 1♂
16.8 <b>4</b> 2 pink	<i>Episyrphus balteatus</i> (De Geer) 1♂ <i>Fannia</i> species 1♀
16.8 <b>5</b> 2 blue	<i>Phaonia valida</i> (Harris) 2♂
16.8 <b>7</b> 2 yellow	<i>Phaonia valida</i> (Harris) 1♂ <i>P. errans</i> (Meigen) 1♀
16.8 <b>10</b> 1 yellow	<i>Phaonia valida</i> (Harris) 1♂
16.8 <b>12</b> 1 blue	<i>Suillia variegata</i> (Loew) 1♀
16.8 <b>14</b> 1 blue	<i>Delia/Botanophila</i> species 1♀
16.8 <b>17</b> 1 yellow	<i>Sarcophaga subvicina</i> Rohdendorf 1♂
16.8 <b>21</b> 4 blue	<i>Sarcophaga carnaria</i> (Linnaeus) 1♂ <i>Coenosia mollicula</i> (Fallén) 1♂ <i>Sphaerophoria scripta</i> (Linnaeus) 1♂ <i>Coremacera marginata</i> (Fabricius) 1♂
16.8 <b>24</b> 2 yellow	<i>Sarcophaga carnaria</i> (Linnaeus) 1♂ <i>Helina depuncta</i> (Fallén) 1♀
16.8 <b>25</b> 1 blue	<i>Epeodes latifasciatus</i> (Macquart) 1♀
18.8 <b>2</b> 1 pink	<i>Acnemia nitidicollis</i> (Meigen) 1♂
18.8 <b>7</b> 3 yellow	<i>Phaonia valida</i> (Harris) 1♀ <i>Hydrotaea irritans</i> (Fallén) 1♀ <i>Pegoplata nitidicauda</i> (Schnabl) 1♀
18.8 <b>9</b> 2 blue	<i>Phaonia errans</i> (Meigen) 1♂ <i>Suillia ustulata</i> (Meigen) 1♀
18.8 <b>9</b> 2 yellow	<i>Megaselia</i> species 2♀

18.8 10 1 pink	<i>Phaonia valida</i> (Harris) 1♀
18.8 10 1 yellow	<i>Episyrphus balteatus</i> (De Geer) 1♀
18.8 11 1 yellow	<i>Medetera truncorum</i> Meigen 1♂
18.8 12 2 yellow	<i>Sarcophaga carnaria</i> (Linnaeus) 1♂ <i>Episyrphus balteatus</i> (De Geer) 1♀
18.8 20 1 yellow	<i>Hydrellia</i> species 1♀
18.8 21 3 pink	<i>Calliphora vicina</i> Robineau-Desvoidy 1♀ <i>Emmesomyia socia</i> (Fallén) 1♀ <i>Sarcophaga</i> species 1♀ <i>Megaselia</i> species 1♀
18.8 24 1 blue	<i>Phaonia valida</i> (Harris) 1♀
18.8 25 1 yellow	<i>Sarcophaga</i> species 1♀
23.8 7 1 yellow	<i>Sarcophaga variegata</i> (Scopoli) 1♂
23.8 8 2 pink	<i>Episyrphus balteatus</i> (De Geer) 1♂ <i>Medetera</i> species 1♀ (poor condition)
23.8 8 2 blue	<i>Medetera abstrusa</i> Thuneberg 1♀ <i>Diplonevra</i> species 1♀
23.8 9 1 pink	<i>Phaonia valida</i> (Harris) 1♀
23.8 11 2 yellow	<i>Phaonia valida</i> (Harris) 1♀ <i>Polietes lardarius</i> (Fabricius) 1♂
23.8 12 2 yellow	<i>Phaonia valida</i> (Harris) 2♂
23.8 13 1 pink	<i>Suillia affinis</i> (Meigen) 1♀
23.8 16 1 yellow	<i>Medetera truncorum</i> Meigen 1♂
23.8 23 1 pink	<i>Tipula paludosa</i> Meigen 1♀
26.8 7 1 yellow	<i>Hylemya vagans</i> (Panzer) 1♀
26.8 8 1 pink	<i>Dryomyza analis</i> (Fallén) 1♂
26.8 9 3 yellow	<i>Diplonevra nitidula</i> (Meigen) 1♂ <i>Megaselia</i> species 1♀ <i>Pegoplata nitidicauda</i> (Schnabl) 1♀
26.8 9 1 pink	<i>Diplonevra nitidula</i> (Meigen) 1♂
26.8 10 1 yellow	<i>Delia/Botanophila</i> species 1♀
26.8 11 1 yellow/ pink	<i>Sarcophaga carnaria</i> (Linnaeus) 1♂

26.8 12 4 yellow	<i>Phaonia valida</i> (Harris) 1♀ <i>Sarcophaga</i> species 1♀ <i>Hylemya vagans</i> (Panzer) 1♀ <i>Pegoplata nitidicauda</i> (Schnabl) 1♀
26.8 13 1 pink	<i>Helina depuncta</i> (Fallén) 1♀
26.8 19 2 pink	<i>Sarcophaga carnaria</i> (Linnaeus) 2♂
30.8 3 1 pink	<i>Sarcophaga carnaria</i> (Linnaeus) 1♂
30.8 7 5 yellow	<i>Sarcophaga variegata</i> (Scopoli) 1♂ <i>Lucilia caesar</i> (Linnaeus) 1♂ <i>Helina impuncta</i> (Fallén) 2♀ <i>Megaselia</i> species 1♂
30.8 7 1 yellow/blue	<i>Phaonia valida</i> (Harris) 1♀
30.8 12 3 yellow	<i>Sarcophaga carnaria</i> (Linnaeus) 2♂ <i>Phaonia valida</i> (Harris) 1♀
30.8 13 1 yellow	<i>Helina depuncta</i> (Fallén) 1♀
30.8 13 2 pink	<i>Hydrotaea irritans</i> (Fallén) 1♀ <i>Hylemya variata</i> (Fallén) 1♂
30.8 14 1 pink	<i>Phaonia valida</i> (Harris) 1♀
30.8 16 1 yellow	<i>Limnellia quadrata</i> (Fallén) 1♂
30.8 24 1 blue	<i>Coremacera marginata</i> (Fabricius) 1♀
2.9 13 2 pink	<i>Hylemya vagans</i> (Panzer) 1♀ <i>Suillia bicolor</i> (Zetterstedt) 1♂
2.9 24 1 pink	<i>Hydrotaea irritans</i> (Fallén) 1♀
6.9 7 1 yellow	<i>Phaonia angelicae</i> (Scopoli) 1♀
6.9 8 1 pink	<i>Eutrichota praepotens</i> (Wiedemann) 1♀
6.9 12 1 blue	<i>Helophilus pendulus</i> (Linnaeus) 1♀
6.9 12 1 pink	<i>Mycetophila fungorum</i> (De Geer) group 1♀
6.9 12 3 yellow	<i>Phaonia valida</i> (Harris) 2♀ <i>Tipula paludosa</i> Meigen 1♀
6.9 13 2 pink	<i>Helina depuncta</i> (Fallén) 1♀ <i>Neoplatyura modesta</i> (Winnertz) 1♂
6.9 14 1 pink	<i>Phaonia valida</i> (Harris) 1♀
6.9 17 1 pink	<i>Diplonevra pilosella</i> Schmitz 1♂

9.9 9 1 yellow	<i>Helina impuncta</i> (Fallén) 1 ♀
9.9 12 1 yellow	<i>Sarcophaga carnaria</i> (Linnaeus) 1 ♂
9.9 13 1 pink	<i>Helina depuncta</i> (Fallén) 1 ♀
9.9 24 1 pink	<i>Helina impuncta</i> (Fallén) 1 ♀

The following species were among the recaptured specimens but not in any of the other samples examined:

*Coremacera marginata* (Fabricius) (Sciomyzidae)

*Suillia ustulata* (Meigen) (Heleomyzidae)

*Hydrellia* species (female not determined) (Ephydriidae)

*Eutrichota* (= *Pegomyza*) *praepotens* (Wiedemann) (Anthomyiidae)

There was also a male of *Sphaerophoria scripta* (Linnaeus); only females possibly belonging to this species were found in the other samples.

The 108 recaptured specimens belonged to 15 families as follows:

Muscidae	38 specimens of 8 species
Sarcophagidae	19 specimens of 3 species
Anthomyiidae	11 specimens of 6 species
Phoridae	11 specimens (6 of 3 <i>Diplonevra</i> species and 5 of undetermined <i>Megaselia</i> species)
Syrphidae	7 specimens of 4 species
Heleomyzidae	4 specimens of 4 species
Dolichopodidae	4 specimens of 2 species
Calliphoridae	2 specimens of 2 species
Ephydriidae	2 specimens of 2 species
Mycetophilidae	2 specimens of 2 species
Keroplastidae	2 specimens of 1 species
Sciomyzidae	2 specimens of 1 species
Tipulidae	2 specimens of 1 species
Dryomyzidae	1 specimen of 1 species
Fanniidae	1 specimen of 1 species

### Systematic List of Species Recaptured

(37 species determined specifically, at least 5 other species determined to genus only)

**Tipulidae**                    *Tipula paludosa* Meigen

**Keroplastidae**            *Neoplatyura modesta* (Winnertz)

**Mycetophilidae**        *Acnemia nitidicollis* (Meigen)  
*Mycetophila fungorum* (De Geer) group ♀ (the male of *M. fungorum* was found in Trap 8)

<b>Dolichopodidae</b>	<i>Medetera abstrusa</i> Thuneberg <i>M. truncorum</i> Meigen
<b>Phoridae</b>	<i>Diplonevra concinna</i> (Meigen) <i>D. nitidula</i> (Meigen) <i>D. pilosella</i> Schmitz <i>Megaselia</i> species
<b>Syrphidae</b>	<i>Episyrphus balteatus</i> (De Geer) <i>Epeodes latifasciatus</i> (Macquart) <i>Sphaerophoria scripta</i> (Linnaeus) <i>Helophilus pendulus</i> (Linnaeus)
<b>Dryomyzidae</b>	<i>Dryomyza analis</i> (Fallén)
<b>Sciomyzidae</b>	<i>Coremacera marginata</i> (Fabricius)
<b>Heleomyzidae</b>	<i>Suillia affinis</i> (Meigen) <i>S. bicolor</i> (Zetterstedt) <i>S. ustulata</i> (Meigen) <i>S. variegata</i> (Loew)
<b>Ephydriidae</b>	<i>Hydrellia</i> species (undetermined female) <i>Limnellia quadrata</i> (Fallén)
<b>Anthomyiidae</b>	<i>Botanophila</i> or <i>Delia</i> females (not determined) <i>Emmesomyia socia</i> (Fallén) <i>Eutrichota praepotens</i> (Wiedemann) <i>Hylemya vagans</i> (Panzer) <i>H. variata</i> (Fallén) <i>Pegoplata nitidicauda</i> (Schnabl)
<b>Muscidae</b>	<i>Hydrotaea irritans</i> (Fallén) <i>Polietes lardarius</i> (Fabricius) <i>Phaonia angelicae</i> (Scopoli) <i>P. errans</i> (Meigen) <i>P. valida</i> (Harris) <i>Helina depuncta</i> (Fallén) <i>H. impuncta</i> (Fallén) <i>Coenosia mollicula</i> (Fallén)
<b>Fanniidae</b>	<i>Fannia</i> (undetermined female)
<b>Calliphoridae</b>	<i>Calliphora vicina</i> Robineau-Desvoidy <i>Lucilia caesar</i> (Linnaeus)
<b>Sarcophagidae</b>	<i>Sarcophaga carnaria</i> (Linnaeus) (= var. <i>vulgaris</i> Rohdendorf of van Emden) <i>S. subvicina</i> Rohdendorf <i>S. variegata</i> (Scopoli) (= typical <i>carnaria</i> of van Emden) <i>Sarcophaga</i> females (all of above 3 species, cannot be determined)



CHECK LIST OF ALL SPECIES OF DIPTERA PRESENT IN SAMPLES

**Tipulidae**

<i>Tipula oleracea</i> Linnaeus			18
<i>T. paludosa</i> Meigen	8		18

**Limoniidae**

<i>Symplecta stictica</i> (Meigen)			18
<i>Ilisia maculata</i> (Meigen)	8		
<i>Molophilus appendiculatus</i> (Staeger)		13	
<i>Dicranomyia mitis</i> (Meigen) (form <i>lutea</i> )			18
<i>Limonia nubeculosa</i> Meigen		13	18
<i>Neolimonia dumetorum</i> (Meigen)	8		18
<i>Rhipidia maculata</i> Meigen (= <i>duplicata</i> auctt.)	8	13	18

**Anisopodidae**

<i>Sylvicola cinctus</i> (Fabricius)	8		
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**Psychodidae**

In small numbers (not determined)	8	13	18
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**Culicidae**

<i>Culex pipiens</i> Linnaeus			18
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**Chironomidae**

A few specimens (not determined)	8	13	18
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**Ceratopogonidae**

<i>Forcipomyia</i> species (not determined)	8		18
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**Bibionidae**

<i>Dilophus febrilis</i> (Linnaeus)		13	18
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**Scatopsidae**

<i>Swammerdamella brevicornis</i> (Meigen)			18
<i>Colobostema triste</i> (Zetterstedt)			18

**Keroplastidae**

<i>Macrocera anglica</i> Edwards			18
<i>M. stigmoides</i> Edwards		13	
<i>Neoplatyura modesta</i> (Winnertz)	8	13	18
<i>N. nigricauda</i> (Strobl)	8		18



## Mycetophilidae

<i>Monoclona rufilatera</i> (Walker)	8	13	18
<i>Acnemia nitidicollis</i> (Meigen)	8	13	18
<i>Megalopelma nigroclavatum</i> (Strobl)	8		
<i>Sciophila</i> species (undetermined female)			18
<i>Boletina</i> species (female of <i>sciarina</i> group)	8		
<i>Synapha vitripennis</i> (Meigen)	8	13	
<i>Apolephthisa subincana</i> (Curtis)	8	13	
<i>Rondaniella dimidiata</i> (Meigen)		13	
<i>Leia bimaculata</i> (Meigen)	8		
<i>L. cylindrica</i> (Winnertz)			18
<i>Tetragoneura sylvatica</i> (Curtis)	8		
<i>Ectrepesthoneura colyeri</i> Chandler	8		
<i>Docosia fumosa</i> Edwards			18
<i>Cordyla crassicornis</i> Meigen	8		18
<i>C. murina</i> Winnertz Group species B	8		
<i>Brevicornu boreale</i> (Lundström)	8		18
<i>B. fissicauda</i> (Lundström)			18
<i>B. sericoma</i> (Meigen)	8		
<i>Exechia</i> species (female of <i>repanda</i> group)			18
<i>Trichonta terminalis</i> (Walker)			18
<i>T. vitta</i> (Meigen)		13	
<i>Phronia conformis</i> (Walker)			18
<i>Mycetophila britannica</i> Laštovka & Kidd	8		
<i>M. cingulum</i> Meigen			18
<i>M. fungorum</i> (De Geer)	8		
<i>M. gibbula</i> Edwards			18
<i>M. trinotata</i> Staeger	8		
<i>Zygomysia humeralis</i> (Wiedemann)		13	
<i>Z. notata</i> (Stannius)		13	18
<i>Z. pictipennis</i> (Staeger)		13	18
<i>Sceptonia cryptocauda</i> Chandler			18
<i>S. membranacea</i> Edwards		13	18
<i>S. nigra</i> (Meigen)	8		18
<i>S. tenuis</i> Edwards		13	
<i>Platurocypta punctum</i> (Stannius)		13	
<i>P. testata</i> (Edwards)	8	13	

## Sciaridae

<i>Trichosia (T.) caudata</i> (Walker)	8		18
<i>T. (T.) splendens</i> Winnertz	8	13	
<i>T. (Leptosciarella) glabra</i> (Meigen)		13	
<i>T. (L.) pilosa</i> (Staeger)		13	18
<i>Schwenkfeldina carbonaria</i> (Meigen)			18
<i>Plastosciara brachyptera</i> (Kieffer)			18
<i>Phytosciara flavipes</i> (Meigen)	8	13	18
undetermined Sciaridae	8	13	18

## Cecidomyiidae

In low numbers (not determined)	8	13	18
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## Stratiomyidae

*Chorisops nagatomii* Rozkošný 13 18

## Rhagionidae

*Rhagio lineolus* Fabricius 13

## Asilidae

*Dioctria linearis* (Fabricius) 13 18

## Hybotidae

*Trichinomyia flavipes* (Meigen) 8  
*Leptopeza flavipes* (Meigen) 18  
*Hybos culiciformis* (Fabricius) 8 13 18  
*Platypalpus annulipes* (Meigen) 18  
*P. longicornis* (Meigen) 8 18  
*P. longiseta* (Zetterstedt) 13 18  
*P. luteus* (Meigen) 18  
*P. optivus* (Collin) 18  
*P. pallipes* (Fallén) 13 18  
*P. pectoralis* (Fallén) 8 13  
*Tachypeza nubila* (Meigen) 8 13 18  
*Tachydromia aemula* (Loew) 8  
*Drapetis (D.) assimilis* (Fallén) 18  
*D. (D.) parilis* Collin 8 13 18  
*D. (D.) pusilla* Loew 18  
*D. (Elaphropeza) ephippiata* (Fallén) 8 13 18  
*Crossopalpus minimus* (Meigen) 13

## Empididae

*Empis livida* Linnaeus 8 13 18  
*Rhamphomyia erythrophthalma* Meigen 13 18  
(and its form *hirsutipes* Collin) 13  
*Phyllodromia melanocephala* (Fabricius) 8  
*Trichopeza longicornis* (Meigen) 18

## Dolichopodidae

*Rhaphium appendiculatum* (Zetterstedt) 8  
*Anepsiomyia flaviventris* (Meigen) 18  
*Chrysotimus concinnus* (Zetterstedt) 8 13  
*Sympycnus aeneicoxa* (Meigen) 13 18  
*Syntormon pallipes* (Fabricius) 8  
*Bathycranium bicolorellum* (Zetterstedt) 13  
*Systemus scholtzii* (Loew) 18  
*Campsicnemus curvipes* (Fallén) 8 13 18  
*Argyra argentina* (Meigen) 8 13 18  
*A. confinis* (Zetterstedt) 13  
*A. leucocephala* (Meigen) 18  
*Chrysotus* species (females of *gramineus* group) 8 18  
*Dolichopus festivus* Haliday 8 18

<i>D. griseipennis</i> Stannius	8	13	18
<i>D. longicornis</i> Stannius	8		
<i>D. plumipes</i> (Scopoli)			18
<i>D. trivialis</i> Haliday			18
<i>D. wahlbergi</i> Zetterstedt	8	13	18
<i>Medetera abstrusa</i> Thuneberg	8	13	18
<i>M. impigra</i> (Fallén)	8		18
<i>M. jacula</i> (Fallén)			18
<i>M. pallipes</i> (Zetterstedt)	8		18
<i>M. truncorum</i> Meigen	8	13	18

### Lonchopteridae

<i>Lonchoptera lutea</i> Panzer	8		18
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### Phoridae

<i>Anevrina thoracica</i> (Meigen)	8		
<i>Borophaga incrassata</i> (Meigen)	8	13	18
<i>Chaetopleurophora erythronota</i> (Strobl)	8		
<i>Conicera floricola</i> Schmitz	8	13	18
<i>C. similis</i> (Haliday)		13	18
<i>Diplonevra concinna</i> (Meigen)	8	13	18
<i>D. florea</i> (Fabricius)			18
<i>D. funebris</i> (Meigen)			18
<i>D. nitidula</i> (Meigen)	8	13	18
<i>D. pilosella</i> Schmitz	8	13	18
<i>Gymnophora arcuata</i> (Meigen)	8	13	
<i>Megaselia</i> species (not determined)	8	13	18
<i>Metopina galeata</i> (Haliday)	8	13	18
<i>M. heselhausi</i> Schmitz	8		18
<i>M. oligoneura</i> (Mik)			18
<i>Phalacrotophora fasciata</i> (Fallén)		13	18
<i>Phora atra</i> (Meigen)	8	13	18
<i>P. edentata</i> Schmitz	8		
<i>P. holosericea</i> Schmitz			18
<i>Pseudacteon formicarum</i> (Verrall)		13	18
<i>Spiniphora bergestammi</i> (Mik)	8	13	18
<i>Triphleba distinguenda</i> (Strobl)		13	18
<i>T. nudipalpis</i> (Becker)	8	13	18

### Pipunculidae

<i>Chalarus</i> species (not determined)	8	13	18
<i>Cephalops obtusinervis</i> (Zetterstedt)			18
<i>C. semifumosus</i> (Kowarz)	8	13	18
<i>C. ultimus</i> (Becker)			18
<i>Eudorylas subfascipes</i> Collin		13	18
<i>Tomosvaryella kuthyi</i> (Aczél)			18

### Syrphidae

<i>Syrphus ribesii</i> (Linnaeus)			18
<i>S. vitripennis</i> Meigen	8		

<i>Episyrphus balteatus</i> (De Geer)	8	13	18
<i>Epeodes corollae</i> (Fabricius)			18
<i>E. latifasciatus</i> (Macquart)			18
<i>Sphaerophoria scripta</i> (Linnaeus)			sp. ♀ in 18
<i>Baccha elongata</i> (Fabricius) sensu lato		13	18
<i>Melanostoma mellinum</i> (Linnaeus)	8		18
<i>M. scalare</i> (Fabricius)	8	13	18
<i>Platycheirus albimanus</i> (Fabricius)	8		18
<i>P. peltatus</i> (Meigen)			18
<i>P. scutatus</i> (Meigen)			18
<i>Cheilisia intonsa</i> Loew	8		18
<i>C. pagana</i> (Meigen)	8		18
<i>Rhingia campestris</i> Meigen	8		
<i>Ferdinandea cuprea</i> (Scopoli)	8		
<i>Eumerus strigatus</i> (Fallén)			18
<i>Eristalis arbustorum</i> (Linnaeus)			18
<i>E. pertinax</i> (Scopoli)			18
<i>Helophilus pendulus</i> (Linnaeus)		13	18

#### Tephritidae

<i>Myoleja caesio</i> (Harris)			18
<i>Phagocarpus purmundus</i> (Harris)			18
<i>Tephritis formosa</i> (Loew)			18

#### Pallopteridae

<i>Palloptera modesta</i> (Meigen) (= <i>parallela</i> Loew)			18
<i>P. umbellatarum</i> (Fabricius)			18
<i>P. ustulata</i> Fallén	8	13	18

#### Dryomyzidae

<i>Dryomyza analis</i> (Fallén) (= <i>anilis</i> auctt.)	8	13	18
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#### Sciomyzidae

<i>Coremacera marginata</i> (Fabricius) (= <i>tristis</i> Harris)			
<i>Tetanocera hyalipennis</i> von Roser	8		
<i>Trypetoptera punctulata</i> (Scopoli)	8	13	18

#### Lauxaniidae

<i>Minettia rivoso</i> (Meigen)			18
<i>Sapromyza hyalinata</i> (Meigen)	8		
<i>S. sexpunctata</i> Meigen	8	13	18
<i>S. sordida</i> Haliday		13	
<i>Tricholauxania praeusta</i> (Fallén)	8	13	18
<i>Aulogastromyia anisodactyla</i> (Loew)	8		
<i>Lyciella decempunctata</i> (Fallén)	8	13	
<i>L. pallidiventrif</i> group females	8		
<i>L. rorida</i> (Fallén)	8	13	18
<i>L. subfasciata</i> (Zetterstedt)	8		18
<i>Calliopum aeneum</i> (Fallén)			18

## Psilidae

<i>Chyliza leptogaster</i> (Panzer) (= <i>scutellata</i> (Fabricius))		13	
<i>Loxocera albiseta</i> (Schrank)	8		
<i>Psilosoma</i> (= <i>Camptopsila</i> ) <i>lefebvrei</i> (Zetterstedt)	8	13	
<i>Psila rosae</i> (Fabricius) group females			18

## Opomyzidae

<i>Geomyza tripunctata</i> Fallén			18
<i>Opomyza florum</i> (Fabricius)			18
<i>O. germinationis</i> (Linnaeus)	8	13	18

## Lonchaeidae

<i>Lonchaea chorea</i> (Fabricius)	8		
<i>L. laticornis</i> Meigen			18

## Clusiidae

<i>Clusia flava</i> (Meigen)	8	13	
<i>Clusiodes albimana</i> (Meigen)	8		sp. ♀ in 18
<i>C. gentilis</i> (Collin)	8		

## Sepsidae

<i>Themira annulipes</i> (Meigen)			18
<i>Nemopoda nitidula</i> (Fallén)		13	
<i>Sepsis cynipsea</i> (Linnaeus)		13	
<i>S. fulgens</i> Meigen		13	18
<i>S. orthocnemis</i> Frey		13	18
<i>S. punctum</i> (Fabricius)			18

## Heleomyzidae

<i>Suillia affinis</i> (Meigen)	8	13	18
<i>S. atricornis</i> (Meigen)	8	13	
<i>S. bicolor</i> (Zetterstedt)		13	
<i>S. fuscicornis</i> (Zetterstedt)	8		18
<i>S. notata</i> (Meigen)		13	
<i>S. ustulata</i> (Meigen)			
<i>S. variegata</i> (Loew)	8	13	18
<i>Tephrochlamys rufiventris</i> (Meigen)	8		

## Trixoscelididae

<i>Trixoscelis frontalis</i> sensu Hackman (= <i>canescens</i> of Collin)			18
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## Piophilidae

<i>Allopiophila luteata</i> (Haliday)	8		
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## Asteiidae

<i>Asteia concinna</i> Meigen			18
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## Camillidae

*Camilla flavicauda* Duda (= *glabrata* Collin) 18

## Drosophilidae

*Stegana similis* Laštovka & Maça 8  
*Amiota alboguttata* (Wahlberg) (sensu Maça) 18  
*Chymomyza fuscimana* (Zetterstedt) 8  
*Scaptomyza (S.) flava* (Fallén) 18  
*S. (Parascaptomyza) pallida* (Zetterstedt) 8 13 18  
*Drosophila andalusiaca* Strobl 8 18  
*D. cameraria* Haliday 18  
*D. fenestrarum* Fallén 18  
*D. kuntzei* Duda 13  
*D. phalerata* Meigen 8 13  
*D. subobscura* Collin in Gordon 8 13 18

## Campichoetidae

*Campichoeta obscuripennis* (Meigen) 8  
*C. punctum* (Meigen) 18

## Diastatidae

*Diastata costata* Meigen 8

## Ephydriidae

*Coenia* species female 18  
*Hydrellia* species female (not determined)  
*Limnellia quadrata* (Fallén) 8 18  
*Philygria stictica* (Meigen) 18  
*Trimerina madizans* (Fallén) 18

## Carnidae

*Meoneura neottiophila* Collin 8

## Oдиниidae

*Odinia boletina* (Zetterstedt) 8

## Sphaeroceridae

*Crumomyia fimetaria* (Meigen) 8  
*Chaetopodella scutellaris* (Haliday) 13 18  
*Opacifrons coxata* (Stenhammar) 18  
*O. humida* (Haliday) 13 18  
*O. septentrionalis* (Stenhammar) 18  
*Minilimosina vitripennis* (Zetterstedt) 18  
*Pullimosina moesta* (Villeneuve) 8 13  
*P. pullula* (Zetterstedt) 18  
*Spelobia palmata* (Richards) 8 13 18  
*S. parapusio* (Dahl) 8

## Agromyzidae

<i>Agromyza mobilis</i> Meigen	8		18
<i>Liriomyza flaveola</i> (Fallén)	8	13	18
<i>Napomyza hirticornis</i> (Hendel)			18
<i>Phytomyza crassiseta</i> Zetterstedt			18
<i>P. ranunculi</i> (Schrank)	8		
<i>Cerodontha (C.) denticornis</i> (Panzer)	8		18
<i>C. (Poemyza) atra</i> (Meigen)			18
<i>C. (Dizygomyza) luctuosa</i> (Meigen)			18

## Chloropidae

<i>Tricimba cincta</i> (Meigen)	8		18
<i>Gaurax fascipes</i> (Becker)			18
<i>Elachiptera tuberculifera</i> (Corti)		13	18
<i>Oscinella</i> species ( <i>frit</i> group, not determined)	8	13	18
<i>Chlorops adjunctus</i> Becker		13	
<i>C. hypostigma</i> Meigen		13	18
<i>Meromyza bohemica</i> Fedoseeva			18

## Scathophagidae

<i>Cordilura albipes</i> (Fallén)	8		
<i>Scathophaga furcata</i> (Say)			18
<i>S. stercoraria</i> (Linnaeus)	8	13	18

## Anthomyiidae (nomenclature updated from D.M. Ackland MS list)

<i>Anthomyia</i> species female (not determined)			18
<i>Botanophila fugax</i> (Meigen)	8	13	18
<i>B. striolata</i> (Fallén)			18
<i>Botanophila</i> or <i>Delia</i> females (not determined)	8	13	18
<i>Delia criniventris</i> (Zetterstedt)	8		
<i>D. platyura</i> (Meigen) (= <i>cilicrura</i> )	8		18
<i>D. florilega</i> (Zetterstedt) (= <i>trichodactyla</i> )	8		18
<i>Emmesomyia sócia</i> (Fallén) (= <i>villica</i> Meigen)	8	13	18
<i>Eutrichota</i> (= <i>Pegomyza praepotens</i> (Wiedemann))			
<i>Hylemya urbica</i> (van der Wulp) (= <i>latifrons</i> Schnabl) <del>8</del>			18
<i>H. vagans</i> (Panzer) (= <i>strenua</i> Robineau-Desvoidy)	8	13	18
<i>H. variata</i> (Fallén)	8		18
<i>Hylemyza partita</i> (Meigen) (= <i>lasciva</i> )	8	13	18
<i>Mycophaga testacea</i> (Gimmerthal)	8	13	18
<i>Paregle audacula</i> (Harris) (= <i>radicum</i> auctt.)	8		
<i>Pegoplata nitidicauda</i> (Schnabl) (= <i>virginea</i> auctt.)		13	18
<i>Pegomya bicolor</i> (Wiedemann)			18
<i>P. caesia</i> Stein			18
<i>P. calyptata</i> (Zetterstedt)		13	18
<i>P. winthemi</i> (Meigen)		13	

## Muscidae (nomenclature updated from Pont in Palaearctic Catalogue)

<i>Muscina prolapsa</i> (Harris) (= <i>pabulorum</i> (Fallén))			18
<i>Azelia nebulosa</i> Robineau-Desvoidy (= <i>macquarti</i> (Staeger))	8	13	

<i>Hydrotaea albipuncta</i> (Zetterstedt)			18
<i>H. armipes</i> (Fallén)			18
<i>H. cyrtoneurina</i> (Zetterstedt)		13	
<i>H. irritans</i> (Fallén)	8	13	18
<i>H. meteorica</i> (Linnaeus)			18
<i>Mesembrina meridiana</i> (Linnaeus)			18
<i>Polietes lardarius</i> (Fabricius)	8	13	18
<i>Musca autumnalis</i> De Geer		13	18
<i>Morellia aenescens</i> Robineau-Desvoidy	8	13	18
<i>Neomyia</i> (= <i>Orthellia</i> ) <i>cornicina</i> (Fabricius) (= <i>caesarion</i> (Meigen))			
	8		18
<i>N. viridescens</i> (Robineau-Desvoidy) (= <i>cornicina</i> auctt.)			18
<i>Eudasyphora</i> (= <i>Dasyphora</i> ) <i>cyarella</i> (Meigen)			18
<i>Phaonia angelicae</i> (Scopoli) (= <i>basalis</i> (Zetterstedt))	8	13	18
<i>P. errans</i> (Meigen)	8	13	18
<i>P. mystica</i> (Meigen) (= <i>vittifera</i> (Zetterstedt))			18
<i>P. pallida</i> (Fabricius)		13	18
<i>P. rufiventris</i> (Scopoli) (= <i>populi</i> (Meigen))	8	13	18
<i>P. subventa</i> (Harris) (= <i>variegata</i> (Meigen))			18
<i>P. turguriorum</i> (Scopoli) (= <i>signata</i> (Meigen))			18
<i>P. valida</i> (Harris) (= <i>viarum</i> Robineau-Desvoidy)	8	13	18
<i>Helina abdominalis</i> (Zetterstedt)	8		18
<i>H. depuncta</i> (Fallén)	8	13	18
<i>H. impuncta</i> (Fallén)	8	13	18
<i>H. lasiophthalma</i> (Macquart)			18
<i>H. quadrum</i> (Fabricius)			18
<i>H. reversio</i> (Harris) (= <i>duplicata</i> (Meigen))			18
<i>Mydaea ancilla</i> (Meigen)	8		18
<i>M. corni</i> (Scopoli) (= <i>scutellaris</i> Robineau-Desvoidy)			
	8		
<i>M. electa</i> (Zetterstedt)		13	
<i>M. humeralis</i> Robineau-Desvoidy (= <i>tinctoria</i> (Zetterstedt))		13	
<i>M. nebulosa</i> (Stein)	8	13	
<i>M. urbana</i> (Meigen)			18
<i>Myospila mediatubunda</i> (Fabricius)			18
<i>Hebecnema umbratica</i> (Meigen)			18
<i>H. vespertina</i> (Fallén) (= <i>affinis</i> Malloch)			18
<i>Graphomya maculata</i> (Scopoli)			18
<i>Coenosia agromyzina</i> (Fallén)	8	13	18
<i>C. albicornis</i> Meigen (= <i>lineatipes</i> (Zetterstedt))	8	13	18
<i>C. infantula</i> Rondani			18
<i>C. mollicula</i> (Fallén)		13	18
<i>C. testacea</i> Robineau-Desvoidy (= <i>tricolor</i> (Zetterstedt))			18
<i>C. tigrina</i> (Fabricius)			18

#### Fanniidae

<i>Piezura graminicola</i> (Zetterstedt)		13	18
<i>Fannia genualis</i> (Stein)			18
<i>F. gotlandica</i> Ringdahl	8		
<i>F. pallitibia</i> (Rondani)	8	13	18
<i>F. parva</i> (Stein)			18
<i>F. serena</i> (Fallén)			18



(many undetermined females of *Fannia* probably belong to latter)  
8 13 18

### Rhinophoridae

*Paykullia maculata* (Fallén) 8 18  
*Rhinophora lepida* (Meigen) 18

### Calliphoridae (nomenclature follows Rognes, Fauna Ent. Scand.)

*Melanomya nana* (Meigen) 18  
*Bellardia viarum* (Robineau-Desvoidy) (= *pusilla* auctt., *aculeata* (Pandellé)) 18  
*Melinda viridicyanea* (Robineau-Desvoidy) (= *cognata* Meigen) 13 18  
*Calliphora vicina* Robineau-Desvoidy 13 18  
*Lucilia ampullacea* Villeneuve 13 18  
*L. caesar* (Linnaeus) 8 13 18  
*L. sericata* (Meigen) 8 18  
*L. silvarum* (Meigen) 18  
*Pollenia angustigena* Wainwright 18  
*P. pediculata* Macquart (= *pseudorudis* Rognes) 8 18

### Sarcophagidae (nomenclature follows Pape, Fauna Ent. Scand.)

*Helicophagella agnata* (Rondani) 18  
*Heteronychia haemorrhoea* Meigen 18  
*Parasarcophaga caerulescens* (Zetterstedt) (= *scoparia* (Pandellé)) 18  
*Sarcophaga carnaria* (Linnaeus) (= *schulzi* Muller, var. *vulgaris* Rohdendorf of van Emden) 13 18  
*S. subvicina* Rohdendorf 18  
*S. variegata* (Scopoli) (= *carnaria* auctt., typical form of van Emden) 13 18  
*Sarcophaga* species females (not determined) 8 13 18

### Tachinidae (determined from and following Belshaw, RES Handbook)

*Ligeria angusticornis* (Loew) 18  
*Phryxe nemea* (Meigen) 18  
*Pales pavidata* (Meigen) 18  
*Macquartia tenebricosa* (Meigen) 18  
*Actia lamia* (Meigen) 18  
*A. pilipennis* (Fallén) 18  
*Siphona cristata* (Fabricius) 8 18  
*S. geniculata* (De Geer) 8 18  
*S. maculata* Staeger 18  
*Dexiosoma caninum* (Fabricius) 13

LIST OF DIPTERA PRESENT IN TRAP 8 (all species)

**Tipulidae**

*Tipula paludosa* Meigen

**Limoniidae**

*Ilisia maculata* (Meigen)

*Limonia nubeculosa* Meigen

*Neolimonia dumetorum* (Meigen)

*Rhipidia maculata* Meigen (= *duplicata* auctt.)

**Anisopodidae**

*Sylvicola cinctus* (Fabricius)

**Psychodidae**

In small numbers (not determined)

**Chironomidae**

A few specimens (not determined)

**Ceratopogonidae**

*Forcipomyia* species (not determined)

**Keroplastidae**

*Neoplatyura modesta* (Winnertz)

*N. nigricauda* (Strobl)

**Mycetophilidae**

*Monoclona rufilatera* (Walker)

*Acnemia nitidicollis* (Meigen)

*Megalopelma nigroclavatum* (Strobl)

*Boletina* species (female of *sciarina* group)

*Synapha vitripennis* (Meigen)

*Apolephthisa subincana* (Curtis)

*Leia bimaculata* (Meigen)

*Tetragoneura sylvatica* (Curtis)

*Ectrepesthoneura colyeri* Chandler

*Cordyla crassicornis* Meigen

*C. murina* Winnertz Group species B

*Brevicornu boreale* (Lundström)

*B. sericoma* (Meigen)

*Mycetophila britannica* Laštovka & Kidd

*M. fungorum* (De Geer)

*M. trinotata* Staeger

*Sceptonia nigra* (Meigen)

## **TRAP 8, all species**

*Platurocypta testata* (Edwards)

### **Sciaridae**

*Trichosia (T.) caudata* (Walker)

*T. (T.) splendens* Winnertz

*Phytosciara flavipes* (Meigen)

undetermined Sciaridae

### **Cecidomyiidae**

### **Hybotidae**

*Trichinomyia flavipes* (Meigen)

*Hybos culiciformis* (Fabricius)

*Platypalpus longicornis* (Meigen)

*P. pectoralis* (Fallén)

*Tachypeza nubila* (Meigen)

*Tachydromia aemula* (Loew)

*Drapetis (D.) parilis* Collin

*D. (Elaphropeza) ehippiata* (Fallén)

### **Empididae**

*Empis livida* Linnaeus

*Phyllostroma melanocephala* (Fabricius)

### **Dolichopodidae**

*Rhaphium appendiculatum* (Zetterstedt)

*Chrysotimus concinnus* (Zetterstedt)

*Syntormon pallipes* (Fabricius)

*Campsicnemus curvipes* (Fallén)

*Argyra argentiina* (Meigen)

*Chrysotus* species (females of *gramineus* group)

*Dolichopus festivus* Haliday

*D. griseipennis* Stannius

*D. longicornis* Stannius

*D. wahlbergi* Zetterstedt

*Medetera abstrusa* Thunberg

*M. impigra* (Fallén)

*M. pallipes* (Zetterstedt)

*M. truncorum* Meigen

### **Lonchopteridae**

*Lonchoptera lutea* Panzer

### **Phoridae**

*Anevrina thoracica* (Meigen)

*Borophaga incrassata* (Meigen)

*Chaetopleurophora erythronota* (Strobl)

### **TRAP 8, all species**

*Conicera floricola* Schmitz  
*Diplonevra concinna* (Meigen)  
*D. nitidula* (Meigen)  
*D. pilosella* Schmitz  
*Gymnophora arcuata* (Meigen)  
*Megaselia* species (not determined)  
*Metopina galeata* (Haliday)  
*M. heselhausi* Schmitz  
*Phora atra* (Meigen)  
*P. edentata* Schmitz  
*Spiniphora bergenstammi* (Mik)  
*Triphleba nudipalpis* (Becker)

### **Pipunculidae**

*Chalarus* species (not determined)  
*Cephalops semifumosus* (Kowarz)

### **Syrphidae**

*Syrphus vitripennis* Meigen  
*Episyrphus balteatus* (De Geer)  
*Melanostoma mellinum* (Linnaeus)  
*M. scalare* (Fabricius)  
*Platycheirus albimanus* (Fabricius)  
*Cheilisia intonsa* Loew  
*C. pagana* (Meigen)  
*Rhingia campestris* Meigen  
*Ferdinandea cuprea* (Scopoli)

### **Pallopteridae**

*Palloptera ustulata* Fallén

### **Dryomyzidae**

*Dryomyza analis* (Fallén) (= *anilis* auctt.)

### **Sciomyzidae**

*Tetanocera hyalipennis* von Roser  
*Trypetoptera punctulata* (Scopoli)

### **Lauxaniidae**

*Sapromyza hyalinata* (Meigen)  
*S. sexpunctata* Meigen  
*Tricholauxania praeusta* (Fallén)  
*Aulogastromyia anisodactyla* (Loew)  
*Lyciella decempunctata* (Fallén)  
*L. pallidiventris* group females  
*L. rorida* (Fallén)

### **TRAP 8, all species**

*L. subfasciata* (Zetterstedt)

### **Psilidae**

*Loxocera albiseta* (Schrank)

*Psilosoma* (= *Camptopsila*) *lefebvrei* (Zetterstedt)

### **Opomyzidae**

*Opomyza germinationis* (Linnaeus)

### **Lonchaeidae**

*Lonchaea chorea* (Fabricius)

### **Clusiidae**

*Clusia flava* (Meigen)

*Clusiodes albimana* (Meigen)

*C. gentilis* (Collin)

### **Heleomyzidae**

*Suillia affinis* (Meigen)

*S. atricornis* (Meigen)

*S. fuscicornis* (Zetterstedt)

*S. variegata* (Loew)

*Tephrochlamys rufiventris* (Meigen)

### **Piophilidae**

*Allopiophila luteata* (Haliday)

### **Drosophilidae**

*Stegana similis* Laštovka & Maça

*Chymomyza fuscimana* (Zetterstedt)

*Scaptomyza* (*Parascaptomyza*) *pallida* (Zetterstedt)

*Drosophila andalusiaca* Strobl

*D. phalerata* Meigen

*D. subobscura* Collin in Gordon

### **Campichoetidae**

*Campichoeta obscuripennis* (Meigen)

### **Diastatidae**

*Diastata costata* Meigen

## **TRAP 8, all species**

### **Ephydridae**

*Limnellia quadrata* (Fallén)

### **Carnidae**

*Meoneura neottiophila* Collin

### **Odiniidae**

*Odinia boletina* (Zetterstedt)

### **Sphaeroceridae**

*Crumomyia fimetaria* (Meigen)

*Pullimosina moesta* (Villeneuve)

*Spelobia palmata* (Richards)

*S. parapusio* (Dahl)

### **Agromyzidae**

*Agromyza mobilis* Meigen

*Liriomyza flaveola* (Fallén)

*Phytomyza ranunculi* (Schrank)

*Cerodontha (C.) denticornis* (Panzer)

### **Chloropidae**

*Tricimba cincta* (Meigen)

*Oscinella* species (*frit* group, not determined)

### **Scathophagidae**

*Cordilura albipes* (Fallén)

*Scathophaga stercoraria* (Linnaeus)

### **Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Botanophila fugax* (Meigen)

*Botanophila* or *Delia* females (not determined)

*Delia criniventris* (Zetterstedt)

*D. platura* (Meigen) (= *cilicrura*)

*D. florilega* (Zetterstedt) (= *trichodactyla*)

*Emmesomyia socia* (Fallén) (= *villica* Meigen)

*H. vagans* (Panzer) (= *strenua* Robineau-Desvoidy)

*H. variata* (Fallén)

*Hylemyza partita* (Meigen) (= *lasciva*)

*Mycophaga testacea* (Gimmerthal)

*Paregle audacula* (Harris) (= *radicum* auctt.)

## **TRAP 8, all species**

### **Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Azelia nebulosa* Robineau-Desvoidy (= *macquarti* (Staeger))  
*Hydrotaea irritans* (Fallén)  
*Polietes lardarius* (Fabricius)  
*Morellia aenescens* Robineau-Desvoidy  
*Neomyia* (= *Orthellia*) *cornicina* (Fabricius) (= *caesarion* (Meigen))  
*Phaonia angelicae* (Scopoli) (= *basalis* (Zetterstedt))  
*P. errans* (Meigen)  
*P. rufiventris* (Scopoli) (= *populi* (Meigen))  
*P. valida* (Harris) (= *viarum* Robineau-Desvoidy)  
*Helina abdominalis* (Zetterstedt)  
*H. depuncta* (Fallén)  
*H. impuncta* (Fallén)  
*Mydaea ancilla* (Meigen)  
*M. corni* (Scopoli) (= *scutellaris* Robineau-Desvoidy)  
*M. nebulosa* (Stein)  
*Coenosia agromyzina* (Fallén)  
*C. albicornis* Meigen (= *lineatipes* (Zetterstedt))

### **Fanniidae**

*Fannia gotlandica* Ringdahl  
*F. pallitibia* (Rondani)  
*Fannia* (undetermined females)

### **Rhinophoridae**

*Paykullia maculata* (Fallén)

### **Calliphoridae** (nomenclature follows Rognes, Fauna Ent. Scand.)

*Lucilia caesar* (Linnaeus)  
*L. sericata* (Meigen)  
*Pollenia pediculata* Macquart (= *pseudorudis* Rognes)

### **Sarcophagidae** (nomenclature follows Pape, Fauna Ent. Scand.)

*Sarcophaga* species females (not determined)

### **Tachinidae** (determined from and following Belshaw, RES Handbook)

*Siphona cristata* (Fabricius)  
*S. geniculata* (De Geer)

LIST OF DIPTERA PRESENT IN TRAP 8 ON 9TH AUGUST

**Limoniidae**

*Rhipidia maculata* Meigen (= *duplicata* auctt.) 1♀

**Ceratopogonidae**

*Forcipomyia* species (not determined) 2 specimens

**Keroplastidae**

*Neoplatyura modesta* (Winnertz) 1♂

**Mycetophilidae**

*Acnemia nitidicollis* (Meigen) 2♂

*Cordyla murina* Winnertz Group species B 1♂

**Sciaridae**

undetermined Sciaridae 1 specimen

**Cecidomyiidae** 2 specimens

**Hybotidae**

*Hybos culiciformis* (Fabricius) 2♂, 2♀

*Tachypeza nubila* (Meigen) 2♂

*Drapetis (D.) parilis* Collin 3♂, 4♀

*D. (Elaphropeza) ephippiata* (Fallén) 3♂, 2♀

**Empididae**

*Empis livida* Linnaeus 1♂, 1♀

**Dolichopodidae**

*Argyra argentina* (Meigen) 1♂

*Chrysotus* species (females of *gramineus* group) 6♀

*Dolichopus longicornis* Stannius 1♀

*Medetera impigra* (Fallén) 1♂, 6♀

**Phoridae**

*Diplonevra concinna* (Meigen) 1♂

*D. nitidula* (Meigen) 6♂, 1♀

*D. pilosella* Schmitz 1♂

*Gymnophora* species female 1♀

*Megaselia* species (not determined) 26♂, 25♀

*Phora atra* (Meigen) 1♂

*Phora* species females (not determined) 2♀

*Triphleba nudipalpis* (Becker) 2♂



## **TRAP 8, 9th August**

### **Syrphidae**

*Syrphus vitripennis* Meigen 1 ♀  
*Episyrphus balteatus* (De Geer) 9 ♂, 21 ♀  
*Melanostoma mellinum* (Linnaeus) 1 ♂  
*M. scalare* (Fabricius) 1 ♂  
*Cheilosia intonsa* Loew 2 ♀

### **Sciomyzidae**

*Tetanocera hyalipennis* von Roser 1 ♀

### **Lauxaniidae**

*Sapromyza hyalinata* (Meigen) 1 ♀  
*S. sexpunctata* Meigen 4 ♂  
*Tricholauxania praeusta* (Fallén) 2 ♀  
*Lyciella decempunctata* (Fallén) 1 ♀

### **Clusiidae**

*Clusiodes* species female 2 ♀

### **Heleomyzidae**

*Suillia variegata* (Loew) 1 ♀

### **Drosophilidae**

*Stegana similis* Laštovka & Maça 1 ♂  
*Chymomyza fuscimana* (Zetterstedt) 2 ♂, 1 ♀  
*Scaptomyza (Parascaptomyza) pallida* (Zetterstedt) 1 ♂, 3 ♀

### **Campichoetidae**

*Campichoeta obscuripennis* (Meigen) 1 ♂

### **Ephydriidae**

*Limnellia quadrata* (Fallén) 1 ♂

### **Carnidae**

*Meoneura neottiophila* Collin 1 ♂

### **Oдиниidae**

*Odinia boletina* (Zetterstedt) 2 ♂

### **Sphaeroceridae**

*Spelobia palmata* (Richards) 1 ♂, 7 ♀

## **TRAP 8, 9th August**

### **Agromyzidae**

*Agromyza mobilis* Meigen 2♂  
*Liriomyza flaveola* (Fallén) 1♂, 3♀  
*Phytomyza ranunculi* (Schrank) 1♀  
*Phytomyza* species female 1♀

### **Chloropidae**

*Tricimba cincta* (Meigen) 1♀

### **Scathophagidae**

*Cordilura albipes* (Fallén) 1♀

### **Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Botanophila fugax* (Meigen) 20♂  
*Botanophila* or *Delia* females (not determined) 30♀  
*Delia platura* (Meigen) (= *cilicrura*) 3♂  
*D. florilega* (Zetterstedt) (= *trichodactyla*) 2♂  
*Emmesomyia socia* (Fallén) (= *villica* Meigen) 1♀  
*Hylemya vagans* (Panzer) (= *strenua* Robineau-Desvoidy) 1♀  
*H. variata* (Fallén) 1♂  
*Paregle audacula* (Harris) (= *radicum* auctt.) 1♂

### **Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Hydrotaea irritans* (Fallén) 5♀  
*Morellia aenescens* Robineau-Desvoidy 1♀  
*Phaonia angelicae* (Scopoli) (= *basalis* (Zetterstedt)) 1♀  
*P. errans* (Meigen) 2♀  
*P. rufiventris* (Scopoli) (= *populi* (Meigen)) 1♀  
*P. valida* (Harris) (= *viarum* Robineau-Desvoidy) 1♂, 3♀  
*Helina abdominalis* (Zetterstedt) 1♀  
*Coenosia agromyzina* (Fallén) 1♂  
*C. albicornis* Meigen (= *lineatipes* (Zetterstedt)) 2♂

### **Fanniidae**

*Fannia gotlandica* Ringdahl 1♀  
*F. pallitibia* (Rondani) 1♀  
*Fannia* females (not determined) 28♀

### **Rhinophoridae**

*Paykullia maculata* (Fallén) 1♀

### **Calliphoridae** (nomenclature follows Rognes, Fauna Ent. Scand.)

*Pollenia pediculata* Macquart (= *pseudorudis* Rognes) 1♂

**TRAP 8, 9th August**

**Sarcophagidae** (nomenclature follows Pape, Fauna Ent. Scand.)

*Sarcophaga* species females 2♀

**Tachinidae** (determined from and following Belshaw, RES Handbook)

*Siphona* species female 1♀

LIST OF DIPTERA PRESENT IN TRAP 8 ON 12TH AUGUST

**Limoniidae**

*Rhipidia maculata* Meigen (= *duplicata* auctt.) 1♀

**Psychodidae**

1 specimen

**Chironomidae**

4 specimens

**Mycetophilidae**

*Apolephthisa subincana* (Curtis) 1♀  
*Ectrepesthoneura colyeri* Chandler 1♂  
*Brevicornu sericoma* (Meigen) 1♂  
*Mycetophila trinotata* Staeger 1♂

**Sciaridae**

*Trichosia (T.) caudata* (Walker) 1♂

**Hybotidae**

*Drapetis (D.) parilis* Collin 1♀

**Empididae**

*Phyllodromia melanocephala* (Fabricius) 1♀

**Dolichopodidae**

*Chrysotimus concinnus* (Zetterstedt) 1♀  
*Campsicnemus curvipes* (Fallén) 2♂  
*Dolichopus griseipennis* Stannius 1♂  
*Medetera* species 1♀

**Phoridae**

*Diplonevra nitidula* (Meigen) 2♂, 2♀  
*Megaselia* species (not determined) 6♂, 11♀  
*Phora edentata* Schmitz 2♂  
*Triphleba nudipalpis* (Becker) 1♂

**Syrphidae**

*Episyrphus balteatus* (De Geer) 1♂

**Sciomyzidae**

*Trypetoptera punctulata* (Scopoli) 1♂

## **TRAP 8, 12th August**

### **Lauxaniidae**

*Sapromyza seipunctata* Meigen 1♂, 1♀

*Lyciella rorida* (Fallén) 1♀

### **Clusiidae**

*Clusia flava* (Meigen) 1♀

### **Heleomyzidae**

*Suillia variegata* (Loew) 1♂

### **Drosophilidae**

*Chymomyza fuscimana* (Zetterstedt) 2♂

*Scaptomyza (Parascaptomyza) pallida* (Zetterstedt) 1♀

*Drosophila phalerata* Meigen 1♂

*D. subobscura* Collin in Gordon 1♂, 1♀

### **Ephydriidae**

*Limnellia quadrata* (Fallén) 1♂

### **Sphaeroceridae**

*Pullimosina moesta* (Villeneuve) 1♀

### **Agromyzidae**

*Liriomyza flaveola* (Fallén) 1♂

### **Chloropidae**

*Oscinella* species (not determined) 1 example

### **Scathophagidae**

*Scathophaga stercoraria* (Linnaeus) 1♂

### **Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Botanophila fugax* (Meigen) 3♂

*Botanophila* or *Delia* females (not determined) 10♀

*Delia criniventris* (Zetterstedt) 1♂

*Hylemya vagans* (Panzer) (= *strenua* Robineau-Desvoidy) 1♀

### **Muscidae** (nomenclature updated from Pont in Palaeartic Catalogue)

*Hydrotaea irritans* (Fallén) 1♀

*Phaonia valida* (Harris) (= *viarum* Robineau-Desvoidy) 1♂

LIST OF DIPTERA PRESENT IN TRAP 8 ON 16TH AUGUST

**Chironomidae**

2 specimens

**Mycetophilidae**

*Acnemia nitidicollis* (Meigen) 2♂  
*Megalopelma nigroclavatum* (Strobl) 4♂  
*Apolephthisa subincana* (Curtis) 1♂  
*Cordyla crassicornis* Meigen 1♂  
*Sceptonia nigra* (Meigen) 1♂

**Sciaridae**

undetermined Sciaridae 2

**Cecidomyiidae**

8 specimens

**Hybotidae**

*Hybos culiciformis* (Fabricius) 1♂  
*Platypalpus pectoralis* (Fallén) 1♀  
*Tachypeza nubila* (Meigen) 1♂  
*Drapetis (D.) parilis* Collin 1♀  
*D. (Elaphropeza) ephippiata* (Fallén) 1♂

**Dolichopodidae**

*Chrysotimus concinnus* (Zetterstedt) 1♂  
*Chrysotus* species (females of *gramineus* group) 2♀  
*Dolichopus festivus* Haliday 1♂  
*Medetera abstrusa* Thunberg 1♀  
*M. impigra* (Fallén) 1♀  
*M. pallipes* (Zetterstedt) 1♀  
*M. truncorum* Meigen 1♂

**Phoridae**

*Borophaga incrassata* (Meigen) 1♀  
*Conicera floricola* Schmitz 8♂  
*Diplonevra nitidula* (Meigen) 8♂, 3♀  
*D. pilosella* Schmitz 1♂  
*Diplonevra* species 1♀  
*Megaselia* species (not determined) 23♂, 18♀  
*Phora edentata* Schmitz 1♂  
*Triphleba nudipalpis* (Becker) 6♂

**Syrphidae**

*Episyrphus balteatus* (De Geer) 1♂, 2♀  
*Melanostoma scalare* (Fabricius) 1♀

**TRAP 8, 16th August**

**Pallopteridae**

*Palloptera ustulata* Fallén 1♀

**Sciomyzidae**

*Tetanocera hyalipennis* von Roser 1♂

**Lonchaeidae**

*Lonchaea chorea* (Fabricius) 1♂

**Clusiidae**

*Clusia flava* (Meigen) 1♀

*Clusiodes gentilis* (Collin) 1♂

**Heleomyzidae**

*Suillia variegata* (Loew) 1♂

**Drosophilidae**

*Chymomyza fuscimana* (Zetterstedt) 5♂

**Ephydriidae**

*Limnellia quadrata* (Fallén) 2♂, 6♀

**Agromyzidae**

*Liriomyza flaveola* (Fallén) 4♀

**Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Botanophila fugax* (Meigen) 1♂

*Botanophila* or *Delia* females (not determined) 2♀

*Delia platura* (Meigen) (= *cilicrura*) 1♂

*Hylemya vagans* (Panzer) (= *strenua* Robineau-Desvoidy) 1♂, 2♀

*Hylemyza partita* (Meigen) (= *lasciva*) 1♀

**Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Azelia nebulosa* Robineau-Desvoidy (= *macquarti* (Staeger)) 1♂

*Hydrotaea irritans* (Fallén) 1♀

*Polietes lardarius* (Fabricius) 2♂

*Morellia aenescens* Robineau-Desvoidy 1♂, 1♀

*Phaonia valida* (Harris) (= *viarum* Robineau-Desvoidy) 1♂, 3♀

*Coenosia albicornis* Meigen (= *lineatipes* (Zetterstedt)) 1♀

**TRAP 8, 16th August**

**Fanniidae**

*Fannia* (undetermined females) 3♀

**Calliphoridae (nomenclature follows Rognes, Fauna Ent. Scand.)**

*Lucilia caesar* (Linnaeus) 1♂





LIST OF DIPTERA PRESENT IN TRAP 8 ON 18TH AUGUST

**Limoniidae**

*Ilisia maculata* (Meigen) 1♀  
*Limonia nubeculosa* Meigen 1♂

**Psychodidae**

1 specimen (not determined)

**Chironomidae**

1 specimen (not determined)

**Keroplastidae**

*Neoplatyura modesta* (Winnertz) 1♂

**Mycetophilidae**

*Acnemia nitidicollis* (Meigen) 2♂, 1♀  
*Synapha vitripennis* (Meigen) 1♂  
*Brevicornu sericoma* (Meigen) 1♂  
*Mycetophila fungorum* (De Geer) 1♂  
*Platurocypta testata* (Edwards) 1♂

**Sciaridae**

*Trichosia (T.) caudata* (Walker) 2♂  
*T. (T.) splendens* Winnertz 1♂

**Cecidomyiidae**

3 specimens

**Hybotidae**

*Platypalpus pectoralis* (Fallén) 1♀  
*D. (Elaphropeza) ehippiata* (Fallén) 1♂

**Dolichopodidae**

*Chrysotus* species (females of *gramineus* group) 1♀  
*Dolichopus griseipennis* Stannius 1♀  
*Medetera impigra* (Fallén) 1♀

**Phoridae**

*Diplonevra nitidula* (Meigen) 4♂, 5♀  
*Megaselia* species (not determined) 7♂, 9♀  
*Triphleba nudipalpis* (Becker) 5♂

**TRAP 8, 18th August**

**Syrphidae**

*Episyrphus balteatus* (De Geer) 1♂  
*Melanostoma scalare* (Fabricius) 1♂, 1♀

**Lauxaniidae**

*Aulogastromyia anisodactyla* (Loew) 1♀  
*Lyciella rorida* (Fallén) 1♀

**Opomyzidae**

*Opomyza germinationis* (Linnaeus) 1♂

**Clusiidae**

*Clusiodes* species 1♀

**Heleomyzidae**

*Suillia variegata* (Loew) 1♂, 1♀

**Drosophilidae**

*Chymomyza fuscimana* (Zetterstedt) 2♂  
*Drosophila andalusiaca* Strobl 1♂

**Ephydriidae**

*Limnellia quadrata* (Fallén) 1♂

**Sphaeroceridae**

*Spelobia palmata* (Richards) 2♂, 1♀

**Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Botanophila* or *Delia* females (not determined) 2♀

**Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Hydrotaea irritans* (Fallén) 1♀  
*Polietes lardarius* (Fabricius) 1♂  
*Phaonia valida* (Harris) (= *viarum* Robineau-Desvoidy) 1♀  
*Helina abdominalis* (Zetterstedt) 1♀  
*Mydaea corni* (Scopoli) (= *scutellaris* Robineau-Desvoidy) 1♀  
*M. nebulosa* (Stein) 1♀  
*Coenosia albicornis* Meigen (= *lineatipes* (Zetterstedt)) 3♀

**Fanniidae**

*Fannia* (undetermined females) 1♀

LIST OF DIPTERA PRESENT IN TRAP 8 ON 23RD AUGUST

**Psychodidae**

3 specimens (not determined)

**Chironomidae**

2 specimens (not determined)

**Keroplastidae**

*Neoplatyura modesta* (Winnertz) 1♀

**Mycetophilidae**

*Acnemia nitidicollis* (Meigen) 6♂

*Brevicornu* species female 1♀

**Sciaridae**

*Trichosia (T.) splendens* Winnertz 1♂

undetermined Sciaridae 4

**Cecidomyiidae**

9 specimens

**Hybotidae**

*Hybos culiciformis* (Fabricius) 1♂

*Tachypeza nubila* (Meigen) 3♂, 1♀

*D. (Elaphropeza) ehippiata* (Fallén) 1♂, 1♀

**Dolichopodidae**

*Dolichopus griseipennis* Stannius 1♂

*D. wahlbergi* Zetterstedt 2♂, 1♀

*Medetera abstrusa* Thunberg 2♂

**Phoridae**

*Diplonevra concinna* (Meigen) 1♂

*D. nitidula* (Meigen) 5♂, 2♀

*D. pilosella* Schmitz 4♂

*Diplonevra* species females 4♀

*Megaselia* species (not determined) 10♂, 19♀

*Triphleba nudipalpis* (Becker) 6♂, 1♀

**Pipunculidae**

*Chalarus* species (not determined) 1♂

*Cephalops semifumosus* (Kowarz) 1♀

**TRAP 8, 23rd August**

**Syrphidae**

*Melanostoma scalare* (Fabricius) 1♀

**Palloppteridae**

*Pallopptera ustulata* Fallén 1♀

**Opomyzidae**

*Opomyza germinationis* (Linnaeus) 1♀

**Heleomyzidae**

*Suillia affinis* (Meigen) 1♂

*S. variegata* (Loew) 1♀

*Tephrochlamys rufiventris* (Meigen) 1♂

**Piophilidae**

*Allopiophila luteata* (Haliday) 1♂, 1♀

**Drosophilidae**

*Chymomyza fuscimana* (Zetterstedt) 2♂

*Drosophila subobscura* Collin in Gordon 1♀

**Sphaeroceridae**

*Spelobia palmata* (Richards) 3♂

**Agromyzidae**

*Cerodontha (C.) denticornis* (Panzer) 1♀

**Chloropidae**

*Oscinella* species (*frit* group, not determined) 1♀

**Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Botanophila fugax* (Meigen) 1♂

*Botanophila* or *Delia* females (not determined) 1♀

*Hylemya variata* (Fallén) 1♀

**Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Hydrotaea irritans* (Fallén) 1♀

*Polietes lardarius* (Fabricius) 1♂

*Phaonia valida* (Harris) (= *viarum* Robineau-Desvoidy) 2♀

*Helina depuncta* (Fallén) 2♀

*H. impuncta* (Fallén) 1♀

*Coenosia agromyzina* (Fallén) 1♂

**TRAP 8, 23rd August**

*C. albicornis* Meigen (= *lineatipes* (Zetterstedt)) 1♀

**Fanniidae**

*Fannia* (undetermined females) 2♀

**Calliphoridae** (nomenclature follows Rognes, Fauna Ent. Scand.)

*Lucilia sericata* (Meigen) 1♂

**Sarcophagidae** (nomenclature follows Pape, Fauna Ent. Scand.)

*Sarcophaga* species females (not determined) 1♀

**Tachinidae** (determined from and following Belshaw, RES Handbook)

*Siphona geniculata* (De Geer) 1♂



LIST OF DIPTERA PRESENT IN TRAP 8 ON 26TH AUGUST

**Limoniidae**

*Ilisia maculata* (Meigen) 1♀

**Keroplastidae**

*Neoplatyura modesta* (Winnertz) 1♀

**Mycetophilidae**

*Acnemia nitidicollis* (Meigen) 3♂, 1♀

*Platurocypta testata* (Edwards) 1♂

**Sciaridae**

undetermined Sciaridae 1

**Cecidomyiidae**

3 specimens

**Hybotidae**

*Platypalpus longicornis* (Meigen) 1♀

*Tachypeza nubila* (Meigen) 1♂

**Dolichopodidae**

*Rhaphium appendiculatum* (Zetterstedt) 1♂

*Medetera impigra* (Fallén) 2♀

*M. truncorum* Meigen 1♀

**Phoridae**

*Conicera floricola* Schmitz 1♂

*Diplonevra concinna* (Meigen) 1♂

*D. nitidula* (Meigen) 2♂, 2♀

*D. pilosella* Schmitz 3♂, 1♀

*Megaselia* species (not determined) 4♂, 4♀

*Triphleba nudipalpis* (Becker) 3♂

**Pipunculidae**

*Chalarus* species (not determined) 1♀

**Syrphidae**

*Platycheirus albimanus* (Fabricius) 1♀

*Ferdinandea cuprea* (Scopoli) 1♀



**TRAP 8, 26th August**

**Heleomyzidae**

*Suillia variegata* (Loew) 2♀

**Diastatidae**

*Diastata costata* Meigen 1♂

**Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Botanophila* or *Delia* females (not determined) 1♀

**Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Hydrotaea irritans* (Fallén) 1♀

LIST OF DIPTERA PRESENT IN TRAP 8 ON 30TH AUGUST

**Tipulidae**

*Tipula paludosa* Meigen 1♀

**Chironomidae**

1 specimen (not determined)

**Mycetophilidae**

*Monoclona rufilatera* (Walker) 4♂  
*Acnemia nitidicollis* (Meigen) 2♂, 2♀  
*Megalopelma nigroclavatum* (Strobl) 1♂  
*Apolephthisa subincana* (Curtis) 1♂, 1♀  
*Tetragoneura sylvatica* (Curtis) 1♂, 2♀  
*Ectrepesthoneura* species 1♀  
*Cordyla crassicornis* Meigen 1♂  
*Brevicornu boreale* (Lundström) 1♂  
*Brevicornu* species 1♀

**Sciaridae**

*Phytosciara flavipes* (Meigen) 1♂  
undetermined Sciaridae 6♂, 3♀

**Cecidomyiidae**

13 specimens

**Hybotidae**

*Hybos culiciformis* (Fabricius) 2♂, 2♀  
*Tachypeza nubila* (Meigen) 1♀  
*Tachydromia aemula* (Loew) 1♀

**Dolichopodidae**

*Medetera abstrusa* Thuneberg 2♂  
*M. truncorum* Meigen 1♀

**Phoridae**

*Anevrina thoracica* (Meigen) 1♂  
*Conicera floricola* Schmitz 5♂  
*Diplonevra concinna* (Meigen) 9♂  
*D. nitidula* (Meigen) 10♂  
*D. pilosella* Schmitz 2♂  
*Diplonevra* species 1♀  
*Megaselia* species (not determined) 28♂, 19♀  
*Metopina galeata* (Haliday) 1♂  
*Phora edentata* Schmitz 1♂  
*Spiniphora bergenstammi* (Mik) 1♂  
*Triphleba nudipalpis* (Becker) 10♂

## **TRAP 8, 30th August**

### **Syrphidae**

*Syrphus vitripennis* Meigen 1♀

*Cheilosia pagana* (Meigen) 1♀

### **Lauxaniidae**

*Lyciella pallidiventrif* group females 1♀

*L. subfasciata* (Zetterstedt) 1♀

### **Psilidae**

*Psilosoma* (= *Camptopsila*) *lefebvrei* (Zetterstedt) 1♀

### **Opomyzidae**

*Opomyza germinationis* (Linnaeus) 2♂

### **Clusiidae**

*Clusiodes* species 1♀

### **Sphaeroceridae**

*Spelobia palmata* (Richards) 4♂

### **Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Botanophila* or *Delia* females (not determined) 1♀

*Emmesomyia socia* (Fallén) (= *villica* Meigen) 1♀

*Hylemya vagans* (Panzer) (= *strenua* Robineau-Desvoidy) 1♀

*Hylemyza partita* (Meigen) (= *lasciva*) 1♀

### **Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Hydrotaea irritans* (Fallén) 1♀

*Polietes lardarius* (Fabricius) 3♂

*Phaonia angelicae* (Scopoli) (= *basalis* (Zetterstedt)) 1♀

*P. valida* (Harris) (= *viarum* Robineau-Desvoidy) 1♂, 1♀

*Helina depuncta* (Fallén) 1♀

*Coenosia agromyzina* (Fallén) 1♂, 2♀

### **Fanniidae**

*Fannia* (undetermined females) 1♀

### **Sarcophagidae** (nomenclature follows Pape, Fauna Ent. Scand.)

*Sarcophaga* species females (not determined) 3♀

### **Tachinidae** (determined from and following Belshaw, RES Handbook)

*Siphona cristata* (Fabricius) 1♂, 1♀

LIST OF DIPTERA PRESENT IN TRAP 8 ON 2ND SEPTEMBER

**Limoniidae**

*Neolimonia dumetorum* (Meigen) 1♂

**Anisopodidae**

*Sylvicola cinctus* (Fabricius) 1♀

**Keroplastidae**

*Neoplatyura nigricauda* (Strobl) 1♂

**Mycetophilidae**

*Monoclona rufilatera* (Walker) 1♂

*Acnemia nitidicollis* (Meigen) 1♂

*Boletina* species (female of *sciarina* group) 1♀

**Sciaridae**

*Phytosciara flavipes* (Meigen) 1♀

undetermined Sciaridae 1

**Dolichopodidae**

*Dolichopus griseipennis* Stannius 1♂

**Lonchopteridae**

*Lonchoptera lutea* Panzer 1♀

**Phoridae**

*Diplonevra nitidula* (Meigen) 4♂, 1♀

*Triphleba nudipalpis* (Becker) 1♂

**Syrphidae**

*Rhingia campestris* Meigen 1♀

**Lauxaniidae**

*Sapromyza sexpunctata* Meigen 1♀

**Drosophilidae**

*Chymomyza fuscimana* (Zetterstedt) 1♂, 1♀

*Drosophila subobscura* Collin in Gordon 1♀

**TRAP 8, 2nd September**

**Sphaeroceridae**

*Crumomyia fimetaria* (Meigen) 1♀

*Spelobia parapusio* (Dahl) 1♀

**Muscidae** (nomenclature updated from Pont in Palaeartic Catalogue)

*Polietes lardarius* (Fabricius) 2♂

*Phaonia valida* (Harris) (= *viarum* Robineau-Desvoidy) 1♀

*Helina depuncta* (Fallén) 1♀

*Mydaea ancilla* (Meigen) 1♀

*M. corni* (Scopoli) (= *scutellaris* Robineau-Desvoidy) 1♀

LIST OF DIPTERA PRESENT IN TRAP 8 ON 6TH SEPTEMBER 1994

**Psychodidae**

1 specimen (not determined)

**Mycetophilidae**

*Monoclona rufilatera* (Walker) 1♂  
*Acnemia nitidicollis* (Meigen) 4♂, 1♀  
*Apolephthisa subincana* (Curtis) 1♀  
*Leia bimaculata* (Meigen) 1♀  
*Sceptonia nigra* (Meigen) 1♂

**Sciaridae**

*Phytosciara flavipes* (Meigen) 1♂, 1♀  
undetermined Sciaridae 3

**Cecidomyiidae**

5 specimens

**Hybotidae**

*Trichinomyia flavipes* (Meigen) 1♀  
*Tachypeza nubila* (Meigen) 1♂, 1♀  
*Drapetis (D.) parilis* Collin 1♀

**Dolichopodidae**

*Syntormon pallipes* (Fabricius) 1♀  
*Medetera truncorum* Meigen 1♀

**Phoridae**

*Chaetopleurophora erythronota* (Strobl) 1♂  
*Diplonevra nitidula* (Meigen) 11♂  
*Megaselia* species (not determined) 19♂, 5♀  
*Metopina heselhausi* Schmitz 1♀  
*Spiniphora bergenstammi* (Mik) 1♂

**Syrphidae**

*Episyrphus balteatus* (De Geer) 1♂

**Psilidae**

*Loxocera albisetata* (Schrank) 1♀

**Opomyzidae**

*Opomyza germinationis* (Linnaeus) 1♂

**TRAP 8, 6th September**

**Clusiidae**

*Clusiodes albimana* (Meigen) 2♂

**Chloropidae**

*Oscinella* species (*frit* group, not determined) 6♂, 3♀

**Scathophagidae**

*Scathophaga stercoraria* (Linnaeus) 1♂

**Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Botanophila* or *Delia* females (not determined) 2♀

*Hylemya vagans* (Panzer) (= *strenua* Robineau-Desvoidy) 1♂

**Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Neomyia* (= *Orthellia*) *cornicina* (Fabricius) (= *caesarion* (Meigen)) 1♂

*Phaonia valida* (Harris) (= *viarum* Robineau-Desvoidy) 1♀

*Helina depuncta* (Fallén) 2♀

**Fanniidae**

*Fannia* (undetermined females) 1♀

LIST OF DIPTERA PRESENT IN TRAP 8 ON 9TH SEPTEMBER 1994

**Mycetophilidae**

*Monoclona rufilatera* (Walker) 1♂  
*Acnemia nitidicollis* (Meigen) 3♂  
*Mycetophila britannica* Laštovka & Kidd 1♀  
*Platurocypta testata* (Edwards) 1♂

**Sciaridae**

*Phytosciara flavipes* (Meigen) 2♂, 1♀  
undetermined Sciaridae 1

**Cecidomyiidae**

1 specimen

**Hybotidae**

*Trichinomyia flavipes* (Meigen) 1♀  
*Tachypeza nubila* (Meigen) 1♂, 1♀  
*Drapetis (D.) parilis* Collin 1♀

**Dolichopodidae**

*Syntormon pallipes* (Fabricius) 1♀  
*Medetera truncorum* Meigen 1♀

**Phoridae**

*Diplonevra nitidula* (Meigen) 9♂, 1♀  
*Megaselia* species (not determined) 2♂, 1♀  
*Triphleba nudipalpis* (Becker) 1♂

**Syrphidae**

*Episyrphus balteatus* (De Geer) 1♀

**Dryomyzidae**

*Dryomyza analis* (Fallén) (= *anilis* auctt.) 1♀

**Heleomyzidae**

*Suillia atricornis* (Meigen) 1♀  
*S. fuscicornis* (Zetterstedt) 1♀

**Drosophilidae**

*Chymomyza fuscimana* (Zetterstedt) 1♂



**TRAP 8, 9th September**

**Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Neomyia* (= *Orthellia*) *cornicina* (Fabricius) (= *caesarion* (Meigen)) 1♂

*Helina depuncta* (Fallén) 1♀

**Fanniidae**

*Fannia* (undetermined females) 1♀

LIST OF DIPTERA PRESENT IN TRAP 13 (all species)

**Limoniidae**

*Molophilus appendiculatus* (Staeger)  
*Limonia nubeculosa* Meigen  
*Rhipidia maculata* Meigen (= *duplicata* auctt.)

**Psychodidae**

**Chironomidae**

**Bibionidae**

*Dilophus febrilis* (Linnaeus)

**Keroplastidae**

*Macrocera stigmoides* Edwards  
*Neoplatyura modesta* (Winnertz)

**Mycetophilidae**

*Monoclona rufilatera* (Walker)  
*Acnemia nitidicollis* (Meigen)  
*Synapha vitripennis* (Meigen)  
*Apolephthisa subincana* (Curtis)  
*Rondaniella dimidiata* (Meigen)  
*Trichonta vitta* (Meigen)  
*Zygomyia humeralis* (Wiedemann)  
*Z. notata* (Stannius)  
*Z. pictipennis* (Staeger)  
*Zygomyia* species females (not determined)  
*Sceptonia membranacea* Edwards  
*S. tenuis* Edwards  
*Platurocypta punctum* (Stannius)  
*P. testata* (Edwards)

**Sciaridae**

*Trichosia (T.) splendens* Winnertz  
*T. (Leptosciarella) glabra* (Meigen)  
*T. (L.) pilosa* (Staeger)  
*Phytosciara flavipes* (Meigen)  
undetermined Sciaridae

**Cecidomyiidae**

**Stratiomyidae**

*Chorisops nagatomii* Rozkošny

**Rhagionidae**

*Rhagio lineolus* Fabricius

## **TRAP 13, all species**

### **Asilidae**

*Dioctria linearis* (Fabricius)

### **Hybotidae**

*Hybos culiciformis* (Fabricius)

*Platypalpus longiseta* (Zetterstedt)

*P. pallipes* (Fallén)

*P. pectoralis* (Fallén)

*Tachypeza nubila* (Meigen)

*Drapetis (D.) parilis* Collin

*D. (Elaphropeza) ephippiata* (Fallén)

*Crossopalpus minimus* (Meigen)

### **Empididae**

*Empis livida* Linnaeus

*Rhamphomyia erythrophthalma* Meigen  
(and its form *hirsutipes* Collin)

### **Dolichopodidae**

*Chrysotimus concinnus* (Zetterstedt)

*Sympycnus aeneicoxa* (Meigen)

*Bathycranium bicolorellum* (Zetterstedt)

*Campsicnemus curvipes* (Fallén)

*Argyra argentina* (Meigen)

*A. confinis* (Zetterstedt)

*Dolichopus griseipennis* Stannius

*D. wahlbergi* Zetterstedt

*Medetera abstrusa* Thunberg

*M. truncorum*, Meigen

### **Phoridae**

*Borophaga incrassata* (Meigen)

*Conicera floricola* Schmitz

*C. similis* (Haliday)

*Diplonevra concinna* (Meigen)

*D. nitidula* (Meigen)

*D. pilosella* Schmitz

*Diplonevra* species females (not determined)

*Gymnophora arcuata* (Meigen)

*Megaselia* species (not determined)

*Metopina galeata* (Haliday)

*Phalacrotophora fasciata* (Fallén)

*Phora atra* (Meigen)

*Phora* species females (not determined)

*Pseudacteon formicarum* (Verrall)

*Spiniphora bergenstammi* (Mik)

*Triphleba distinguenda* (Strobl)

*T. nudipalpis* (Becker)

## **TRAP 13, all species**

### **Pipunculidae**

*Chalarus* species (not determined)  
*Cephalops semifumosus* (Kowarz)  
*Eudorylas subfascipes* Collin

### **Syrphidae**

*Episyrphus balteatus* (De Geer)  
*Baccha elongata* (Fabricius) sensu lato  
*Melanostoma scalare* (Fabricius)  
*Helophilus pendulus* (Linnaeus)

### **Pallopteridae**

*Palloptera ustulata* Fallén

### **Dryomyzidae**

*Dryomyza analis* (Fallén) (= *anilis* auctt.)

### **Sciomyzidae**

*Trypetoptera punctulata* (Scopoli)

### **Lauxaniidae**

*Sapromyza sexpunctata* Meigen  
*S. sordida* Haliday  
*Tricholauxania praeusta* (Fallén)  
*Lyciella decempunctata* (Fallén)  
*L. rorida* (Fallén)

### **Psilidae**

*Chyliza leptogaster* (Panzer) (= *scutellata* (Fabricius))  
*Psilosoma* (= *Camptopsila*) *lefebvrei* (Zetterstedt)

### **Opomyzidae**

*Opomyza germinationis* (Linnaeus)

### **Clusiidae**

*Clusia flava* (Meigen)

### **Sepsidae**

*Nemopoda nitidula* (Fallén)  
*Sepsis cynipsea* (Linnaeus)  
*S. fulgens* Meigen

### **TRAP 13, all species**

*S. orthocnemis* Frey

### **Heleomyzidae**

*Suillia affinis* (Meigen)

*S. atricornis* (Meigen)

*S. bicolor* (Zetterstedt)

*S. notata* (Meigen)

*S. variegata* (Loew)

### **Drosophilidae**

*Scaptomyza (Parascaptomyza) pallida* (Zetterstedt)

*Drosophila kuntzei* Duda

*D. phalerata* Meigen

*D. subobscura* Collin in Gordon

### **Sphaeroceridae**

*Chaetopodella scutellaris* (Haliday)

*Opacifrons humida* (Haliday)

*Pullimosina moesta* (Villeneuve)

*Spelobia palmata* (Richards)

### **Agromyzidae**

*Liriomyza flaveola* (Fallén)

### **Chloropidae**

*Elachiptera tuberculifera* (Corti)

*Oscinella* species (not determined)

*Chlorops adjunctus* Becker

*C. hypostigma* Meigen

### **Scathophagidae**

*Scathophaga stercoraria* (Linnaeus)

### **Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Botanophila fugax* (Meigen)

*Botanophila* or *Delia* females (not determined)

*Emmesomyia socia* (Fallén) (= *villica* Meigen)

*Hylemya vagans* (Panzer) (= *strenua* Robineau-Desvoidy)

*Hylemyza partita* (Meigen) (= *lasciva*)

*Mycophaga testacea* (Gimmerthal)

*Pegoplata nitidicauda* (Schnabl) (= *virginea* auctt.)

*Pegomya calyptrata* (Zetterstedt)

*P. winthemi* (Meigen)

### **TRAP 13, all species**

#### **Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Azelia nebulosa* Robineau-Desvoidy (= *macquarti* (Staeger))  
*Hydrotaea cyrtoneurina* (Zetterstedt)  
*H. irritans* (Fallén)  
*Polietes lardarius* (Fabricius)  
*Musca autumnalis* De Geer  
*Morellia aenescens* Robineau-Desvoidy  
*Phaonia angelicae* (Scopoli) (= *basalis* (Zetterstedt))  
*P. errans* (Meigen)  
*P. pallida* (Fabricius)  
*P. rufiventris* (Scopoli) (= *populi* (Meigen))  
*P. valida* (Harris) (= *viarum* Robineau-Desvoidy)  
*Helina depuncta* (Fallén)  
*H. impuncta* (Fallén)  
*Mydaea electa* (Zetterstedt)  
*M. humeralis* Robineau-Desvoidy (= *tincta* (Zetterstedt))  
*M. nebulosa* (Stein)  
*Coenosia agromyzina* (Fallén)  
*C. albicornis* Meigen (= *lineatipes* (Zetterstedt))  
*C. mollicula* (Fallén)

#### **Fanniidae**

*Piezura graminicola* (Zetterstedt)  
*Fannia pallitibia* (Rondani)  
*Fannia* females (not determined)

#### **Calliphoridae** (nomenclature follows Rognes, Fauna Ent. Scand.)

*Melinda viridicyanea* (Robineau-Desvoidy) (= *cognata* Meigen)  
*Calliphora vicina* Robineau-Desvoidy  
*Lucilia ampullacea* Villeneuve  
*L. caesar* (Linnaeus)

#### **Sarcophagidae** (nomenclature follows Pape, Fauna Ent. Scand.)

*Sarcophaga carnaria* (Linnaeus) (= *schulzi* Muller, var. *vulgaris* Rohdendorf of van Emden)  
*S. variegata* (Scopoli) (= *carnaria* auctt., typical form of van Emden)  
*Sarcophaga* species females

#### **Tachinidae** (determined from and following Belshaw, RES Handbook)

*Dexiosoma caninum* (Fabricius)



LIST OF DIPTERA PRESENT IN TRAP 13 ON 9TH AUGUST

**Limoniidae**

*Limonia nubeculosa* Meigen 1♀

**Chironomidae**

1 specimen (not determined)

**Mycetophilidae**

*Acnemia nitidicollis* (Meigen) 2♂

*Synapha vitripennis* (Meigen) 1♂

**Sciaridae**

undetermined Sciaridae 1

**Cecidomyiidae**

5 specimens

**Stratiomyidae**

*Chorisops nagatomii* Rozkošny 1♀

**Asilidae**

*Dioctria linearis* (Fabricius) 1♂, 1♀

**Hybotidae**

*Drapetis (D.) parilis* Collin 2♀

**Empididae**

*Empis livida* Linnaeus 1♀

**Dolichopodidae**

*Chrysotimus concinnus* (Zetterstedt) 1♂

*Sympycnus aeneicoxa* (Meigen) 1♀

*Argyra argentina* (Meigen) 1♀

*A. confinis* (Zetterstedt) 1♀

*Dolichopus griseipennis* Stannius 1♂

*D. wahlbergi* Zetterstedt 1♂

**Phoridae**

*Borophaga incrassata* (Meigen) 1♂

*Diplonevra concinna* (Meigen) 5♂

*D. nitidula* (Meigen) 15♂, 1♀

*D. pilosella* Schmitz 1♂

*Megaselia* species (not determined) 19♂, 29♀



### TRAP 13, 9th August

*Phora* species females (not determined) 2♀  
*Spiniphora bergenstammi* (Mik) 1♂  
*Triphleba nudipalpis* (Becker) 1♂

### **Syrphidae**

*Episyrphus balteatus* (De Geer) 4♂, 3♀  
*Melanostoma scalare* (Fabricius) 1♂, 1♀

### **Lauxaniidae**

*Sapromyza sexpunctata* Meigen 1♀  
*Tricholauxania praeusta* (Fallén) 2♀  
*Lyciella decempunctata* (Fallén) 1♂  
*L. rorida* (Fallén) 1♀

### **Psilidae**

*Chyliza leptogaster* (Panzer) (= *scutellata* (Fabricius)) 1♀

### **Clusiidae**

*Clusia flava* (Meigen) 1♀

### **Heleomyzidae**

*Suillia variegata* (Loew) 1♂

### **Sphaeroceridae**

*Opacifrons humida* (Haliday) 1♀  
*Pullimosina moesta* (Villeneuve) 7♂, 3♀  
*Spelobia palmata* (Richards) 1♀

### **Scathophagidae**

*Scathophaga stercoraria* (Linnaeus) 2♂

### **Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Botanophila fugax* (Meigen) 5♂  
*Botanophila* or *Delia* females (not determined) 6♀  
*Emmesomyia socia* (Fallén) (= *villica* Meigen) 1♀  
*Hylemya vagans* (Panzer) (= *strenua* Robineau-Desvoidy) 2♂, 3♀  
*Pegoplata nitidicauda* (Schnabl) (= *virginea* auctt.) 1♀

### **Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Hydrotaea irritans* (Fallén) 8♀  
*Musca autumnalis* De Geer 1♀  
*Phaonia angelicae* (Scopoli) (= *basalis* (Zetterstedt)) 2♀  
*P. valida* (Harris) (= *viarum* Robineau-Desvoidy) 1♂, 1♀  
*Coenosia albicornis* Meigen (= *lineatipes* (Zetterstedt)) 1♂, 1♀

**TRAP 13, 9th August**

**Fanniidae**

*Piezura graminicola* (Zetterstedt) 1♀

*Fannia* females (not determined) 25♀

**Sarcophagidae (nomenclature follows Pape, Fauna Ent. Scand.)**

*Sarcophaga* species females 1♀



LIST OF DIPTERA PRESENT IN TRAP 13 ON 12TH AUGUST

**Limoniidae**

*Limonia nubeculosa* Meigen 1♂

**Mycetophilidae**

*Acnemia nitidicollis* (Meigen) 2♂

**Cecidomyiidae**

1 specimen

**Rhagionidae**

*Rhagio lineolus* Fabricius 1♀

**Hybotidae**

*Platypalpus pectoralis* (Fallén) 1♀

*Drapetis (Elaphropeza) ehippiata* (Fallén) 1♀

**Dolichopodidae**

*Chrysotimus concinnus* (Zetterstedt) 1♀

**Phoridae**

*Borophaga incrassata* (Meigen) 1♂

*Conicera* species 2♀

*Diplonevra nitidula* (Meigen) 9♂, 1♀

*D. pilosella* Schmitz 1♂

*Gymnophora arcuata* (Meigen) 1♂

*Megaselia* species (not determined) 20♂, 10♀

*Metopina galeata* (Haliday) 1♀

*Phora atra* (Meigen) 2♂

*Triphleba nudipalpis* (Becker) 1♀

**Dryomyzidae**

*Dryomyza analis* (Fallén) (= *anilis* auctt.) 1♂

**Lauxaniidae**

*Sapromyza sexpunctata* Meigen 1♀

**Opomyzidae**

*Opomyza germinationis* (Linnaeus) 1♀

**Heleomyzidae**

*Suillia variegata* (Loew) 2♀

**TRAP 13, 12th August**

**Drosophilidae**

*Drosophila phalerata* Meigen 1♂, 1♀

*D. subobscura* Collin in Gordon 2♀

**Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Botanophila* or *Delia* females (not determined) 4♀

*Hylemya vagans* (Panzer) (= *strenua* Robineau-Desvoidy) 1♂

**Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Hydrotaea irritans* (Fallén) 1♀

*Helina depuncta* (Fallén) 1♀

*Coenosia agromyzina* (Fallén) 1♀

**Fanniidae**

*Fannia pallitibia* (Rondani) 1♂, 1♀

**Calliphoridae** (nomenclature follows Rognes, Fauna Ent. Scand.)

*Lucilia ampullacea* Villeneuve 1♂

LIST OF DIPTERA PRESENT IN TRAP 13 ON 18TH AUGUST

**Keroplastidae**

*Neoplatyura modesta* (Winnertz) 1♂

**Mycetophilidae**

*Acnemia nitidicollis* (Meigen) 3♂, 1♀

*Zygomia pictipennis* (Staeger) 1♀

**Sciaridae**

*Trichosia (T.) splendens* Winnertz 1♂

**Cecidomyiidae**

1 specimen

**Hybotidae**

*Crossopalpus minimus* (Meigen) 1♂

**Dolichopodidae**

*Bathycranium bicolorellum* (Zetterstedt) 1♀

*Medetera truncorum* Meigen 1♂

**Phoridae**

*Borophaga incrassata* (Meigen) 1♂

*Conicera floricola* Schmitz 1♂

*Diplonevra concinna* (Meigen) 1♂

*D. nitidula* (Meigen) 8♂, 3♀

*D. pilosella* Schmitz 1♂

*Megaselia* species (not determined) 3♂, 8♀

*Phora* species females (not determined) 2♀

**Syrphidae**

*Baccha elongata* (Fabricius) sensu lato 1♀

**Pallopteridae**

*Palloptera ustulata* Fallén 1♀

**Dryomyzidae**

*Dryomyza analis* (Fallén) (= *anilis* auctt.) 1♀

**Lauxaniidae**

*Sapromyza sordida* Haliday 1♀

*Tricholauxania praeusta* (Fallén) 1♀

**TRAP 13, 18th August**

**Opomyzidae**

*Opomyza germinationis* (Linnaeus) 1♀

**Sepsidae**

*Nemopoda nitidula* (Fallén) 1♂

**Heleomyzidae**

*Suillia affinis* (Meigen) 2♀

*S. variegata* (Loew) 1♂, 2♀

**Sphaeroceridae**

*Pullimosina moesta* (Villeneuve) 1♀

*Spelobia palmata* (Richards) 2♂

**Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Emmesomyia socia* (Fallén) (= *villica* Meigen) 2♀

*Hylemya vagans* (Panzer) (= *strenua* Robineau-Desvoidy) 4♀

**Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Azelia* species 1♀

*Phaonia valida* (Harris) (= *viarum* Robineau-Desvoidy) 1♀

**Fanniidae**

*Fannia* females (not determined) 3♀

**Calliphoridae** (nomenclature follows Rognes, Fauna Ent. Scand.)

*Lucilia ampullacea* Villeneuve 1♂, 1♀

LIST OF DIPTERA PRESENT IN TRAP 13 ON 23RD AUGUST

**Psychodidae**

1 specimen

**Mycetophilidae**

*Monoclona rufilatera* (Walker) 1♂  
*Acnemia nitidicollis* (Meigen) 4♂  
*Apolephthisa subincana* (Curtis) 1♂  
*Sceptonia membranacea* Edwards 1♂

**Sciaridae**

*Trichosia (Leptosciarella) glabra* (Meigen) 1♂

**Hybotidae**

*Hybos culiciformis* (Fabricius) 1♀  
*Drapetis (D.) parilis* Collin 1♀

**Phoridae**

*Borophaga incrassata* (Meigen) 1♀  
*Diplonevra concinna* (Meigen) 1♂  
*D. nitidula* (Meigen) 16♂, 4♀  
*D. pilosella* Schmitz 5♂  
*Megaselia* species (not determined) 11♂, 14♀  
*Phora* species females (not determined) 2♀  
*Spiniphora bergenstammi* (Mik) 1♂

**Pipunculidae**

*Cephalops semifumosus* (Kowarz) 1♀

**Pallopteridae**

*Palloptera ustulata* Fallén 1♀

**Sciomyzidae**

*Trypetoptera punctulata* (Scopoli) 1♂, 1♀

**Sepsidae**

*Sepsis cynipsea* (Linnaeus) 1♂

**Heleomyzidae**

*Suillia variegata* (Loew) 1♂, 2♀

**Drosophilidae**

*Drosophila phalerata* Meigen 1♂



**TRAP 13, 23rd August**

**Sphaeroceridae**

*Opacifrons humida* (Haliday) 1♀  
*Spelobia palmata* (Richards) 1♂, 1♀

**Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Emmesomyia socia* (Fallén) (= *villica* Meigen) 5♀  
*Hylemya vagans* (Panzer) (= *strenua* Robineau-Desvoidy) 1♀  
*Pegomya calyptrata* (Zetterstedt) 1♀

**Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Hydrotaea irritans* (Fallén) 2♀  
*Polietes lardarius* (Fabricius) 1♂  
*Phaonia angelicae* (Scopoli) (= *basalis* (Zetterstedt)) 1♀  
*P. valida* (Harris) (= *viarum* Robineau-Desvoidy) 1♀  
*Helina depuncta* (Fallén) 4♀  
*Mydaea humeralis* Robineau-Desvoidy (= *tinctoria* (Zetterstedt)) 2♀  
*Coenosia agromyzina* (Fallén) 3♀

**Fanniidae**

*Fannia* females (not determined) 3♀

**Calliphoridae** (nomenclature follows Rognes, Fauna Ent. Scand.)

*Lucilia caesar* (Linnaeus) 1♂

**Sarcophagidae** (nomenclature follows Pape, Fauna Ent. Scand.)

*Sarcophaga* species females 1♀

LIST OF DIPTERA PRESENT IN TRAP 13 ON 26TH AUGUST

**Limoniidae**

*Molophilus appendiculatus* (Staeger) 1♂

**Mycetophilidae**

*Trichonta vitta* (Meigen) 1♀

**Hybotidae**

*Drapetis (D.) parilis* Collin 1♀

**Phoridae**

*Diplonevra nitidula* (Meigen) 5♂, 3♀

*Megaselia* species (not determined) 6♂

*Triphleba nudipalpis* (Becker) 1♂

**Heleomyzidae**

*Suillia variegata* (Loew) 2♀

**Sphaeroceridae**

*Spelobia palmata* (Richards) 1♂, 1♀

**Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Emmesomyia socia* (Fallén) (= *villica* Meigen) 2♀

*Hylemya vagans* (Panzer) (= *strenua* Robineau-Desvoidy) 2♀

*Mycophaga testacea* (Gimmerthal) 1♂

**Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Helina depuncta* (Fallén) 2♀

**Calliphoridae** (nomenclature follows Rognes, Fauna Ent. Scand.)

*Calliphora vicina* Robineau-Desvoidy 1♀

*Lucilia caesar* (Linnaeus) 1♀

**Sarcophagidae** (nomenclature follows Pape, Fauna Ent. Scand.)

*Sarcophaga* species females 1♀

**Tachinidae** (determined from and following Belshaw, RES Handbook)

*Dexiosoma caninum* (Fabricius) 1♀



LIST OF DIPTERA PRESENT IN TRAP 13 ON 30TH AUGUST

**Psychodidae**

1 specimen

**Bibionidae**

*Dilophus febrilis* (Linnaeus) 1♂

**Keroplastidae**

*Macrocera stigmoides* Edwards 1♀

*Neoplatyura modesta* (Winnertz) 1♂

**Mycetophilidae**

*Monoclona rufilatera* (Walker) 2♂

*Acnemia nitidicollis* (Meigen) 2♂

*Synapha vitripennis* (Meigen) 1♂

*Apolephthisa subincana* (Curtis) 1♀

*Rondaniella dimidiata* (Meigen) 1♀

**Sciaridae**

*Trichosia (Leptosciarella) pilosa* (Staeger) 1♂

*Phytosciara flavipes* (Meigen) 1♂

undetermined Sciaridae 3♀

**Cecidomyiidae**

4 specimens

**Hybotidae**

*Crossopalpus minimus* (Meigen) 1♀

**Empididae**

*Rhamphomyia erythrophthalma* Meigen  
(form *hirsutipes* Collin) 1♂

**Dolichopodidae**

*Sympycnus aeneicoxa* (Meigen) 1♀

*Medetera abstrusa* Thunberg 1♀

**Phoridae**

*Borophaga incrassata* (Meigen) 1♂

*Diplonevra nitidula* (Meigen) 13♂, 1♀

*D. pilosella* Schmitz 6♂

*Diplonevra* species females (not determined) 1♀

*Megaselia* species (not determined) 18♂, 11♀

*Phora atra* (Meigen) 1♂

**TRAP 13, 30th August**

*Spiniphora bergenstammi* (Mik) 1♀  
*Triphleba distinguenda* (Strobl) 1♂  
*T. nudipalpis* (Becker) 4♂

**Pipunculidae**

*Chalarus* species (not determined) 1♀

**Syrphidae**

*Baccha elongata* (Fabricius) sensu lato 1♀

**Dryomyzidae**

*Dryomyza analis* (Fallén) (= *anilis* auctt.) 1♂

**Lauxaniidae**

*Lyciella rorida* (Fallén) 1♀

**Psilidae**

*Psilosoma* (= *Camptopsila*) *lefebvrei* (Zetterstedt) 1♀

**Heleomyzidae**

*Suillia variegata* (Loew) 1♂, 1♀

**Sphaeroceridae**

*Chaetopodella scutellaris* (Haliday) 1♂

*Spelobia palmata* (Richards) 4♂, 2♀

**Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Botanophila* or *Delia* females (not determined) 2♀

*Emmesomyia socia* (Fallén) (= *villica* Meigen) 5♀

*Hylemya vagans* (Panzer) (= *strenua* Robineau-Desvoidy) 11♀

**Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Hydrotaea cyrtoneurina* (Zetterstedt) 1♀

*H. irritans* (Fallén) 1♀

*Phaonia valida* (Harris) (= *viarum* Robineau-Desvoidy) 1♀

*Helina depuncta* (Fallén) 3♀

**Fanniidae**

*Fannia* females (not determined) 2♀

**TRAP 13, 30th August**

**Sarcophagidae** (nomenclature follows Pape, Fauna Ent. Scand.)

*Sarcophaga carnaria* (Linnaeus) (= *schulzi* Muller, var. *vulgaris* Rohdendorf of van Emden) 1♂  
*Sarcophaga* species females 1♀



LIST OF DIPTERA PRESENT IN TRAP 13 ON 2ND SEPTEMBER

**Keroplastidae**

*Macrocera stigmoides* Edwards 1♀

**Mycetophilidae**

*Zygomyia humeralis* (Wiedemann) 1♂

**Sciaridae**

undetermined Sciaridae 4

**Empididae**

*Rhamphomyia erythrophthalma* Meigen (typical) 1♂

**Dolichopodidae**

*Dolichopus wahlbergi* Zetterstedt 1♀

**Phoridae**

*Diplonevra concinna* (Meigen) 1♂

*D. nitidula* (Meigen) 3♂

*Megaselia* species (not determined) 3♂

*Triphleba nudipalpis* (Becker) 1♀

**Drosophilidae**

*Scaptomyza (Parascaptomyza) pallida* (Zetterstedt) 1♀

*Drosophila kuntzei* Duda 1♀

**Sphaeroceridae**

*Spelobia palmāta* (Richards) 1♂

**Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Emmesomyia socia* (Fallén) (= *villica* Meigen) 2♀

*Hylemya vagans* (Panzer) (= *strenua* Robineau-Desvoidy) 1♀

*Pegoplata nitidicauda* (Schnabl) (= *virginea* auctt.) 1♀

**Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Hydrotaea irritans* (Fallén) 1♀

*Phaonia errans* (Meigen) 1♀

*Helina depuncta* (Fallén) 2♀

*Mydaea nebulosa* (Stein) 1♀





LIST OF DIPTERA PRESENT IN TRAP 13 ON 6TH SEPTEMBER

**Psychodidae**

1 specimen

**Mycetophilidae**

*Monoclona rufilatera* (Walker) 1♂

*Acnemia nitidicollis* (Meigen) 1♂

*Sceptonia tenuis* Edwards 1♂

**Sciaridae**

undetermined Sciaridae 1

**Hybotidae**

*Drapetis (D.) parilis* Collin 1♂, 2♀

**Phoridae**

*Diplonevra concinna* (Meigen) 1♂

*D. nitidula* (Meigen) 8♂

*D. pilosella* Schmitz 5♂

*Diplonevra* species females (not determined) 1♀

*Megaselia* species (not determined) 3♂, 5♀

**Syrphidae**

*Melanostoma scalare* (Fabricius) 1♀

**Lauxaniidae**

*Lyciella rorida* (Fallén) 1♀

**Opomyzidae**

*Opomyza germinationis* (Linnaeus) 1♀

**Heleomyzidae**

*Suillia variegata* (Loew) 1♂

**Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Botanophila* or *Delia* females (not determined) 1♀

*Emmesomyia socia* (Fallén) (= *villica* Meigen) 2♀

*Hylemya vagans* (Panzer) (= *strenua* Robineau-Desvoidy) 1♂, 2♀

*Mycophaga testacea* (Gimmerthal) 2♀

*Pegoplata nitidicauda* (Schnabl) (= *virginea* auctt.) 1♀

*Pegomya winthemi* (Meigen) 1♀

**TRAP 13, 6th September**

**Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

- Phaonia rufiventris* (Scopoli) (= *populi* (Meigen)) 1♀  
*P. valida* (Harris) (= *viarum* Robineau-Desvoidy) 1♀  
*Helina depuncta* (Fallén) 3♀  
*H. impuncta* (Fallén) 4♀  
*Mydaea electa* (Zetterstedt) 1♀  
*M. humeralis* Robineau-Desvoidy (= *tincta* (Zetterstedt)) 1♀

**Fanniidae**

- Fannia* females (not determined) 2♀

**Calliphoridae** (nomenclature follows Rognes, Fauna Ent. Scand.)

- Melinda viridicyanea* (Robineau-Desvoidy) (= *cognata* Meigen) 1♂  
*Calliphora vicina* Robineau-Desvoidy 1♀

LIST OF DIPTERA PRESENT IN TRAP 13 ON 9TH SEPTEMBER (FIRST TUBE)

**Mycetophilidae**

*Monoclona rufilatera* (Walker) 1♂, 1♀  
*Acnemia nitidicollis* (Meigen) 1♂

**Empididae**

*Rhamphomyia erythrophthalma* Meigen 1♀

**Phoridae**

*Diplonevra nitidula* (Meigen) 4♂  
*D. pilosella* Schmitz 1♂  
*Diplonevra* species females (not determined) 1♀

**Pipunculidae**

*Eudorylas subfascipes* Collin 1♂

**Syrphidae**

*Helophilus pendulus* (Linnaeus) 1♂

**Dryomyzidae**

*Dryomyza analis* (Fallén) (= *anilis* auctt.) 1♀

**Sepsidae**

*Nemopoda nitidula* (Fallén) 1♀

**Heleomyzidae**

*Suillia atricornis* (Meigen) 1♂  
*S. bicolor* (Zetterstedt) 1♂  
*S. notata* (Meigen) 1♀

**Sphaeroceridae**

*Spelobia palmata* (Richards) 1♂

**Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Botanophila* or *Delia* females (not determined) 1♀  
*Emmesomyia socia* (Fallén) (= *villica* Meigen) 2♀  
*Hylemya vagans* (Panzer) (= *strenua* Robineau-Desvoidy) 2♀  
*Hylemya partita* (Meigen) (= *lasciva*) 1♀

**Muscidae** (nomenclature updated from Pont in Palaeartic Catalogue)

*Hydrotaea irritans* (Fallén) 1♀  
*Polietes lardarius* (Fabricius) 1♀  
*Phaonia pallida* (Fabricius) 1♀

**TRAP 13, 9th September ( First Tube)**

*P. rufiventris* (Scopoli) (= *populi* (Meigen)) 1♀

*Helina depuncta* (Fallén) 1♀

*Coenosia mollicula* (Fallén) 1♀

**Fanniidae**

*Fannia pallitibia* (Rondani) 1♀

*Fannia* females (not determined) 1♀

LIST OF DIPTERA PRESENT IN TRAP 13 ON 9TH SEPTEMBER (SECOND TUBE)

**Limoniidae**

*Rhipidia maculata* Meigen (= *duplicata* auctt.) 1♀

**Keroplastidae**

*Macrocera stigmoides* Edwards 1♀

**Mycetophilidae**

*Zygomyia notata* (Stannius) 1♂

*Platurocypta punctum* (Stannius) 1♀

*P. testata* (Edwards) 1♂

**Sciaridae**

undetermined Sciaridae 2

**Hybotidae**

*Tachypeza nubila* (Meigen) 1♀

**Empididae**

*Rhamphomyia erythrophthalma* Meigen (typical) 1♂

**Dolichopodidae**

*Campsicnemus curvipes* (Fallén) 1♂

*Medetera* species 1♀

**Phoridae**

*Diplonevra nitidula* (Meigen) 1♂

*D. pilosella* Schmitz 2♂

*Diplonevra* species females (not determined) 1♀

*Megaselia* species (not determined) 2♂, 10♀

*Triphleba nudipalpis* (Becker) 2♂, 1♀

**Pipunculidae**

*Eudorylas subfascipes* Collin 1♂

**Lauxaniidae**

*Lyciella rorida* (Fallén) 1♀

**Sepsidae**

*Sepsis cynipsea* (Linnaeus) 1♂

*S. fulgens* Meigen 1♂

*S. orthocnemis* Frey 1♂

**TRAP 13, 9th September (Second Tube)**

*Sepsis* species 1♀

**Agromyzidae**

*Liriomyza flaveola* (Fallén) 1♂, 2♀

**Chloropidae**

*Elachiptera tuberculifera* (Corti) 1♀

*Oscinella* species (not determined) 1♀

*Chlorops adjunctus* Becker 1♂

*C. hypostigma* Meigen 1♀

**Scathophagidae**

*Scathophaga stercoraria* (Linnaeus) 3♂, 3♀

**Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Botanophila* or *Delia* females (not determined) 2♀

**Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Hydrotaea irritans* (Fallén) 2♀

*Polietes lardarius* (Fabricius) 2♂, 2♀

*Morellia aenescens* Robineau-Desvoidy 1♂

*Phaonia valida* (Harris) (= *viarum* Robineau-Desvoidy) 1♀

*Helina depuncta* (Fallén) 1♀

*H. impuncta* (Fallén) 4♀

*Coenosia albicornis* Meigen (= *lineatipes* (Zetterstedt)) 1♀

**Sarcophagidae** (nomenclature follows Pape, Fauna Ent. Scand.)

*Sarcophaga carnaria* (Linnaeus) (= *schulzi* Muller, var. *vulgaris* Rohdendorf of van Emden) 1♂

LIST OF DIPTERA PRESENT IN TRAP 18 (all species)

**Tipulidae**

*Tipula oleracea* Linnaeus  
*T. paludosa* Meigen

**Limoniidae**

*Symplecta stictica* (Meigen)  
*Dicranomyia mitis* (Meigen) (form *lutea*)  
*Limonia nubeculosa* Meigen  
*Neolimonia dumetorum* (Meigen)  
*Rhipidia maculata* Meigen (= *duplicata* auctt.)

**Psychodidae**

**Culicidae**

*Culex pipiens* Linnaeus

**Chironomidae**

**Ceratopogonidae**

*Forcipomyia* species (not determined)

**Bibionidae**

*Dilophus febrilis* (Linnaeus)

**Scatopsidae**

*Swammerdamella brevicornis* (Meigen)  
*Colobostema triste* (Zetterstedt)

**Keroplastidae**

*Macrocera anglica* Edwards  
*Neoplatyura modesta* (Winnertz)  
*N. nigricauda* (Strobl)

**Mycetophilidae**

*Monoclona rufilatera* (Walker)  
*Acnemia nitidicollis* (Meigen)  
*Sciophila* species (undetermined female)  
*Leia cylindrica* (Winnertz)  
*Docosia fumosa* Edwards  
*Cordyla crassicornis* Meigen  
*C. murina* Winnertz Group species B



## **TRAP 18, all species**

*Brevicornu fissicauda* (Lundström)  
*Exechia* species (female of *repanda* group)  
*Trichonta terminalis* (Walker)  
*Phronia conformis* (Walker)  
*Phronia* species females (not determined)  
*Mycetophila cingulum* Meigen  
*M. gibbula* Edwards  
*Zygomyia notata* (Stannius)  
*Z. pictipennis* (Staeger)  
*Zygomyia* species females (not determined)  
*Sceptonia cryptocauda* Chandler  
*S. nigra* (Meigen)

## **Sciaridae**

*Trichosia (T.) caudata* (Walker)  
*T. (Leptosciarella) pilosa* (Staeger)  
*Schwenkfeldina carbonaria* (Meigen)  
*Plastosciara brachyptera* (Kieffer)  
*Phytosciara flavipes* (Meigen)  
undetermined Sciaridae

## **Cecidomyiidae**

### **Stratiomyidae**

*Chorisops nagatomii* Rozkošný

## **Asilidae**

*Dioctria linearis* (Fabricius)

## **Hybotidae**

*Leptozeza flavipes* (Meigen)  
*Hybos culiciformis* (Fabricius)  
*Platypalpus annulipes* (Meigen)  
*P. longicornis* (Meigen)  
*P. longiseta* (Zetterstedt)  
*P. luteus* (Meigen)  
*P. optivus* (Collin)  
*P. pallipes* (Fallén)  
*Tachypeza nubila* (Meigen)  
*Drapetis (D.) assimilis* (Fallén)  
*D. (D.) parilis* Collin  
*D. (D.) pusilla* Loew  
*D. (Elaphropeza) ephippiata* (Fallén)

## **Empididae**

*Empis livida* Linnaeus  
*Rhamphomyia erythrophthalma* Meigen

## TRAP 18, all species

*Trichopeza longicornis* (Meigen)

### **Dolichopodidae**

*Anepsiomyia flaviventris* (Meigen)

*Sympycnus aeneicoxa* (Meigen)

*Systemus scholtzii* (Loew)

*Campsicnemus curvipes* (Fallén)

*Argyra argentina* (Meigen)

*A. leucocephala* (Meigen)

*Chrysotus* species (females of *gramineus* group)

*Dolichopus festivus* Haliday

*D. griseipennis* Stannius

*D. plumipes* (Scopoli)

*D. trivialis* Haliday

*D. wahlbergi* Zetterstedt

*Medetera abstrusa* Thunberg

*M. impigra* (Fallén)

*M. jacula* (Fallén)

*M. pallipes* (Zetterstedt)

*M. truncorum* Meigen

### **Lonchopteridae**

*Lonchoptera lutea* Panzer

### **Phoridae**

*Borophaga incrassata* (Meigen)

*Conicera floricola* Schmitz

*C. similis* (Haliday)

*Diplonevra concinna* (Meigen)

*D. florea* (Fabricius)

*D. funebris* (Meigen)

*D. nitidula* (Meigen)

*D. pilosella* Schmitz

*Diplonevra* species females (not determined)

*Megaselia* species (not determined)

*Metopina galeata* (Haliday)

*M. heselhausi* Schmitz

*M. oligoneura* (Mik)

*Phalacrotophora fasciata* (Fallén)

*Phora atra* (Meigen)

*P. holosericea* Schmitz

*Phora* species females (not determined)

*Pseudacteon formicarum* (Verrall)

*Spiniphora bergenstammi* (Mik)

*Triphleba distinguenda* (Strobl)

*T. nudipalpis* (Becker)

### **Pipunculidae**

*Chalarus* species (not determined)

### **TRAP 18, all species**

*Cephalops obtusinervis* (Zetterstedt)  
*C. semifumosus* (Kowarz)  
*C. ultimus* (Becker)  
*Eudorylas subfascipes* Collin  
*Tomosvaryella kuthyi* (Aczél)

### **Syrphidae**

*Syrphus ribesii* (Linnaeus)  
*Episyrphus balteatus* (De Geer)  
*Epeodes corollae* (Fabricius)  
*E. latifasciatus* (Macquart)  
*Sphaerophoria* species females (not determined)  
*Baccha elongata* (Fabricius) sensu lato  
*Melanostoma mellinum* (Linnaeus)  
*M. scalare* (Fabricius)  
*Platycheirus albimanus* (Fabricius)  
*P. peltatus* (Meigen)  
*P. scutatus* (Meigen)  
*Cheilosia intonsa* Loew  
*C. pagana* (Meigen)  
*Eumerus strigatus* (Fallén)  
*Eristalis arbustorum* (Linnaeus)  
*E. pertinax* (Scopoli)  
*Helophilus pendulus* (Linnaeus)

### **Tephritidae**

*Myoleja caesio* (Harris)  
*Phagocarpus purmundus* (Harris)  
*Tephritis formosa* (Loew)

### **Pallopteridae**

*Palloptera modesta* (Meigen) (= *parallela* Loew)  
*P. umbellatarum* (Fabricius)  
*P. ustulata* Fallén

### **Dryomyzidae**

*Dryomyza analis* (Fallén) (= *anilis* auctt.)

### **Sciomyzidae**

*Trypetoptera punctulata* (Scopoli)

### **Lauxaniidae**

*Minettia rivosia* (Meigen)  
*Sapromyza sexpunctata* Meigen  
*Tricholauxania praeusta* (Fallén)  
*Lyciella rorida* (Fallén)

## **TRAP 18, all species**

*L. subfasciata* (Zetterstedt)  
*Calliopum aeneum* (Fallén)

### **Psilidae**

*Psila rosae* (Fabricius) group females

### **Opomyzidae**

*Geomyza tripunctata* Fallén  
*Opomyza florum* (Fabricius)  
*O. germinationis* (Linnaeus)

### **Lonchaeidae**

*Lonchaea laticornis* Meigen

### **Clusiidae**

*Clusiodes* species ♀

### **Sepsidae**

*Themira annulipes* (Meigen)  
*Sepsis fulgens* Meigen  
*S. orthocnemis* Frey  
*S. punctum* (Fabricius)

### **Heleomyzidae**

*Suillia affinis* (Meigen)  
*S. fuscicornis* (Zetterstedt)  
*S. variegata* (Loew)

### **Trixoscelididae**

*Trixoscelis frontalis* sensu Hackman (= *canescens* of Collin)

### **Asteiidae**

*Asteia concinna* Meigen

### **Camillidae**

*Camilla flavicauda* Duda (= *glabrata* Collin)

### **Drosophilidae**

*Amiota alboguttata* (Wahlberg) (sensu Maça)  
*Scaptomyza (S.) flava* (Fallén)  
*S. (Parascaptomyza) pallida* (Zetterstedt)  
*Drosophila andalusiaca* Strobl

### **TRAP 18, all species**

- D. cameraria* Haliday
- D. fenestrarum* Fallén
- D. subobscura* Collin in Gordon

### **Campichoetidae**

*Campichoeta punctum* (Meigen)

### **Ephydriidae**

- Coenia* species female
- Limnellia quadrata* (Fallén)
- Philygria stictica* (Meigen)
- Trimerina madizans* (Fallén)

### **Sphaeroceridae**

- Chaetopodella scutellaris* (Haliday)
- Opacifrons coxata* (Stenhammar)
- O. humida* (Haliday)
- O. septentrionalis* (Stenhammar)
- Minilimosina vitripennis* (Zetterstedt)
- Pullimosina pullula* (Zetterstedt)
- Spelobia palmata* (Richards)

### **Agromyzidae**

- Agromyza mobilis* Meigen
- Liriomyza flaveola* (Fallén)
- Napomyza hirticornis* (Hendel)
- Phytomyza crassiseta* Zetterstedt
- Cerodontha (C.) denticornis* (Panzer)
- C. (Poemyza) atra* (Meigen)
- C. (Dizygomyza) luctuosa* (Meigen)

### **Chloropidae**

- Tricimba cincta* (Meigen)
- Gaurax fascipes* (Becker)
- Elachiptera tuberculifera* (Corti)
- Oscinella* species (not determined)
- Chlorops hypostigma* Meigen
- Meromyza bohemica* Fedoseeva

### **Scathophagidae**

- Scathophaga furcata* (Say)
- S. stercoraria* (Linnaeus)

### **Anthomyiidae (nomenclature updated from D.M. Ackland MS list)**

- Anthomyia* species female
- Botanophila fugax* (Meigen)

## TRAP 18, all species

*B. striolata* (Fallén)  
*Botanophila* or *Delia* females (not determined)  
*Delia platura* (Meigen) (= *cilicrura*)  
*D. florilega* (Zetterstedt) (= *trichodactyla*)  
*Emmesomyia socia* (Fallén) (= *villica* Meigen)  
*Hylemya urbica* (van der Wulp) (= *latifrons* Schnabl)  
*H. vagans* (Panzer) (= *strenua* Robineau-Desvoidy)  
*H. variata* (Fallén)  
*Hylemyza partita* (Meigen) (= *lasciva*)  
*Mycophaga testacea* (Gimmerthal)  
*Pegoplata nitidicauda* (Schnabl) (= *virginea* auctt.)  
*Pegomya bicolor* (Wiedemann)  
*P. caesia* Stein  
*P. calyptrata* (Zetterstedt)

## Muscidae (nomenclature updated from Pont in Palaearctic Catalogue)

*Muscina prolapsa* (Harris) (= *pabulorum* (Fallén))  
*Hydrotaea albipuncta* (Zetterstedt)  
*H. armipes* (Fallén)  
*H. irritans* (Fallén)  
*H. meteorica* (Linnaeus)  
*Mesembrina meridiana* (Linnaeus)  
*Polietes lardarius* (Fabricius)  
*Musca autumnalis* De Geer  
*Morellia aenescens* Robineau-Desvoidy  
*Neomyia* (= *Orthellia*) *cornicina* (Fabricius) (= *caesarion* (Meigen))  
*N. viridescens* (Robineau-Desvoidy) (= *cornicina* auctt.)  
*Eudasyphora* (= *Dasyphora*) *cyarella* (Meigen)  
*Phaonia angelicae* (Scopoli) (= *basalis* (Zetterstedt))  
*P. errans* (Meigen)  
*P. mystica* (Meigen) (= *vittifera* (Zetterstedt))  
*P. pallida* (Fabricius)  
*P. rufiventris* (Scopoli) (= *populi* (Meigen))  
*P. subventa* (Harris) (= *variegata* (Meigen))  
*P. tuguriorum* (Scopoli) (= *signata* (Meigen))  
*P. valida* (Harris) (= *viarum* Robineau-Desvoidy)  
*Helina abdominalis* (Zetterstedt)  
*H. depuncta* (Fallén)  
*H. impuncta* (Fallén)  
*H. lasiophthalma* (Macquart)  
*H. quadrum* (Fabricius)  
*H. reversio* (Harris) (= *duplicata* (Meigen))  
*Mydaea ancilla* (Meigen)  
*M. urbana* (Meigen)  
*Myospila meditabunda* (Fabricius)  
*Hebecnema umbratica* (Meigen)  
*H. vespertina* (Fallén) (= *affinis* Malloch)  
*Graphomya maculata* (Scopoli)  
*Coenosia agromyzina* (Fallén)  
*C. albicornis* Meigen (= *lineatipes* (Zetterstedt))  
*C. infantula* Rondani  
*C. mollicula* (Fallén)

## TRAP 18, all species

- C. *testacea* Robineau-Desvoidy (= *tricolor* (Zetterstedt))
- C. *tigrina* (Fabricius)

### **Fanniidae**

- Piezura graminicola* (Zetterstedt)
- Fannia genualis* (Stein)
- F. *pallitibia* (Rondani)
- F. *parva* (Stein)
- F. *serena* (Fallén)
- Fannia* females (not determined)

### **Rhinophoridae**

- Paykullia maculata* (Fallén)
- Rhinophora lepida* (Meigen)

### **Calliphoridae** (nomenclature follows Rognes, Fauna Ent. Scand.)

- Melanomya nana* (Meigen)
- Bellardia viarum* (Robineau-Desvoidy) (= *pusilla* auctt., *aculeata* (Pandellé))
- Melinda viridicyanea* (Robineau-Desvoidy) (= *cognata* Meigen)
- Calliphora vicina* Robineau-Desvoidy
- Lucilia ampullacea* Villeneuve
- L. *caesar* (Linnaeus)
- L. *sericata* (Meigen)
- L. *silvarum* (Meigen)
- Pollenia angustigena* Wainwright
- P. *pediculata* Macquart (= *pseudorudis* Rognes)

### **Sarcophagidae** (nomenclature follows Pape, Fauna Ent. Scand.)

- Helicophagella agnata* (Rondani)
- Heteronychia haemorrhoea* Meigen
- Parasarcophaga caerulescens* (Zetterstedt) (= *scoparia* (Pandellé))
- Sarcophaga carnaria* (Linnaeus) (= *schulzi* Muller, var. *vulgaris* Rohdendorf of van Emden)
- S. *subvicina* Rohdendorf
- S. *variegata* (Scopoli) (= *carnaria* auctt., typical form of van Emden)
- Sarcophaga* species females

### **Tachinidae** (determined from and following Belshaw, RES Handbook)

- Ligeria angusticornis* (Loew)
- Phryxe nemea* (Meigen)
- Pales pavidus* (Meigen)
- Macquartia tenebricosa* (Meigen)
- Actia lamia* (Meigen)
- A. *pilipennis* (Fallén)
- Siphona cristata* (Fabricius)
- S. *geniculata* (De Geer)
- S. *maculata* Staeger

LIST OF DIPTERA PRESENT IN TRAP 18 ON 9TH AUGUST (FIRST TUBE)

**Limoniidae**

*Symplecta stictica* (Meigen) 1♂  
*Limonia nubeculosa* Meigen 1♀  
*Rhipidia maculata* Meigen (= *duplicata* auctt.) 1♀

**Ceratopogonidae**

*Forcipomyia* species (not determined) 1♀

**Scatopsidae**

*Colobostema triste* (Zetterstedt) 2♂

**Keroplastidae**

*Macrocera anglica* Edwards 1♂  
*Neoplatyura modesta* (Winnertz) 1♂

**Mycetophilidae**

*Acnemia nitidicollis* (Meigen) 1♂  
*Phronia* species females (not determined) 1♀  
*Mycetophila gibbula* Edwards 1♂  
*Sceptonia cryptocauda* Chandler 1♂

**Sciaridae**

undetermined Sciaridae 9

**Cecidomyiidae**

24 specimens

**Hybotidae**

*Hybos culiciformis* (Fabricius) 12♂, 2♀  
*Platypalpus longiseta* (Zetterstedt) 2♂, 6♀  
*P. luteus* (Meigen) 1♀  
*P. optivus* (Collin) 1♂  
*Tachypeza nubila* (Meigen) 1♀  
*Drapetis (D.) pusilla* Loew 1♂, 1♀  
*D. (Elaphropeza) ephippiata* (Fallén) 2♂, 2♀

**Dolichopodidae**

*Anepsiomyia flaviventris* (Meigen) 1♂  
*Sympycnus aeneicoxa* (Meigen) 1♀  
*Argyra leucocephala* (Meigen) 1♀  
*Chrysotus* species (females of *gramineus* group) 42♀  
*Dolichopus festivus* Haliday 2♂, 2♀  
*D. griseipennis* Stannius 1♂  
*Medetera pallipes* (Zetterstedt) 1♂, 3♀



## TRAP 18, 9th August (First Tube)

*M. truncorum* Meigen 3♂, 3♀

### Lonchopteridae

*Lonchoptera lutea* Panzer 1♀

### Phoridae

*Borophaga incrassata* (Meigen) 4♀  
*Conicera floricola* Schmitz 1♂  
*Diplonevra funebris* (Meigen) 1♂  
*D. nitidula* (Meigen) 13♂  
*D. pilosella* Schmitz 13♂  
*Diplonevra* species females (not determined) 4♀  
*Megaselia* species (not determined) 79♂, 55♀  
*Metopina galeata* (Haliday) 1♀  
*M. oligoneura* (Mik) 1♀  
*Phalacrotophora fasciata* (Fallén) 3♂, 3♀  
*Phora* species females (not determined) 4♀  
*Pseudacteon formicarum* (Verrall) 3♂, 1♀  
*Spiniphora bergenstammi* (Mik) 1♂  
*Triphleba distinguenda* (Strobl) 2♂, 1♀  
*T. nudipalpis* (Becker) 45♂

### Pipunculidae

*Chalarus* species (not determined) 1♂, 2♀  
*Cephalops semifumosus* (Kowarz) 1♂, 1♀

### Syrphidae

*Episyrphus balteatus* (De Geer) 10♂, 10♀  
*Epeodes corollae* (Fabricius) 1♀  
*E. latifasciatus* (Macquart) 1♂  
*Melanostoma scalaris* (Fabricius) 2♂, 2♀  
*Platycheirus peltatus* (Meigen) 2♂, 1♀  
*P. scutatus* (Meigen) 1♀  
*Cheilosia pagana* (Meigen) 3♀  
*Eumerus strigatus* (Fallén) 1♀  
*Eristalis pertinax* (Scopoli) 3♀

### Tephritidae

*Myoleja caesio* (Harris) 2♀

### Palloppteridae

*Pallopptera modesta* (Meigen) (= *parallela* Loew) 1♀  
*P. umbellatarum* (Fabricius) 1♂, 2♀  
*P. ustulata* Fallén 1♂, 8♀

**TRAP 18, 9th August (First Tube)**

**Lauxaniidae**

*Minettia rivos*a (Meigen) 1♂  
*Tricholauxania praeusta* (Fallén) 2♀  
*Lyciella rorida* (Fallén) 2♀  
*L. subfasciata* (Zetterstedt) 1♂

**Opomyzidae**

*Opomyza florum* (Fabricius) 1♀

**Heleomyzidae**

*Suillia affinis* (Meigen) 1♀

**Trixoscelididae**

*Trixoscelis frontalis* sensu Hackman (= *canescens* of Collin) 1♂

**Asteiidae**

*Asteia concinna* Meigen 1♂

**Camillidae**

*Camilla flavicauda* Duda (= *glabrata* Collin) 2♂, 1♀

**Drosophilidae**

*Scaptomyza (Parascaptomyza) pallida* (Zetterstedt) 8♀  
*Drosophila fenestrarum* Fallén 1♂  
*D. subobscura* Collin in Gordon 1♀

**Campichoetidae**

*Campichoeta punctum* (Meigen) 2♀

**Sphaeroceridae**

*Chaetopodella scutellaris* (Haliday) 5♂, 3♀  
*Spelobia palmata* (Richards) 1♂, 1♀

**Agromyzidae**

*Agromyza mobilis* Meigen 1♂  
*Liriomyza flaveola* (Fallén) 1♂, 5♀  
*Phytomyza crassiseta* Zetterstedt 1♀  
*Phytomyza* species 2♀  
*Cerodontha (Poemyza) atra* (Meigen) 4♂, 8♀

**Chloropidae**

*Tricimba cincta* (Meigen) 1♀

## TRAP 18, 9th August (First Tube)

*Gaurax fascipes* (Becker) 2♀  
*Oscinella* species (not determined) 26♂, 25♀  
*Meromyza bohemica* Fedoseeva 1♂

### Scathophagidae

*Scathophaga stercoraria* (Linnaeus) 1♂, 1♀

### Anthomyiidae (nomenclature updated from D.M. Ackland MS list)

*Anthomyia* species female 1♀  
*Botanophila fugax* (Meigen) 8♂  
*Botanophila* or *Delia* females (not determined) 41♀  
*Delia platura* (Meigen) (= *cilicrura*) 2♂  
*D. florilega* (Zetterstedt) (= *trichodactyla*) 2♂  
*Emmesomyia socia* (Fallén) (= *villica* Meigen) 2♀  
*Hylemya vagans* (Panzer) (= *strenua* Robineau-Desvoidy) 2♀  
*Pegoplata nitidicauda* (Schnabl) (= *virginea* auctt.) 1♀  
*Pegomya caesia* Stein 1♀

### Muscidae (nomenclature updated from Pont in Palaearctic Catalogue)

*Hydrotaea irritans* (Fallén) 35♀  
*Polietes lardarius* (Fabricius) 1♀  
*Musca autumnalis* De Geer 3♂, 3♀  
*Morellia aenescens* Robineau-Desvoidy 2♂, 1♀  
*Eudasyphora* (= *Dasyphora*) *cyanella* (Meigen) 2♂  
*Phaonia angelicae* (Scopoli) (= *basalis* (Zetterstedt)) 3♀  
*P. errans* (Meigen) 1♂  
*P. subventa* (Harris) (= *variegata* (Meigen)) 1♂  
*P. valida* (Harris) (= *viarum* Robineau-Desvoidy) 1♂, 2♀  
*Helina abdominalis* (Zetterstedt) 2♀  
*H. reversio* (Harris) (= *duplicata* (Meigen)) 1♀  
*Mydaea urbana* (Meigen) 1♀  
*Myospila meditabunda* (Fabricius) 1♂  
*Coenosia testacea* Robineau-Desvoidy (= *tricolor* (Zetterstedt)) 2♂

### Fanniidae

*Fannia pallitibia* (Rondani) 2♂  
*F. parva* (Stein) 1♂  
*Fannia* females (not determined) 24♀

### Rhinophoridae

*Rhinophora lepida* (Meigen) 1♀

### Calliphoridae (nomenclature follows Rognes, Fauna Ent. Scand.)

*Melanomya nana* (Meigen) 2♂, 5♀  
*Bellardia viarum* (Robineau-Desvoidy) (= *pusilla* auctt., *aculeata* (Pandellé)) 2♂  
*Melinda viridicyanea* (Robineau-Desvoidy) (= *cognata* Meigen) 1♂  
*Lucilia ampullacea* Villeneuve 1♀

**TRAP 18, 9th August (First Tube)**

*L. silvarum* (Meigen) 1♀

**Sarcophagidae** (nomenclature follows Pape, Fauna Ent. Scand.)

*Heteronychia haemorrhoea* Meigen 1♂, 1♀

*Sarcophaga subvicina* Rohdendorf 1♂

*Sarcophaga* species females 2♀

**Tachinidae** (determined from and following Belshaw, RES Handbook)

*Siphona maculata* Staeger 1♂



LIST OF DIPTERA PRESENT IN TRAP 18 ON 9TH AUGUST (SECOND TUBE)

**Limoniidae**

*Dicranomyia mitis* (Meigen) (form *lutea*) 1♂  
*Neolimonia dumetorum* (Meigen) 1♀  
*Rhipidia maculata* Meigen (= *duplicata* auctt.) 1♀

**Psychodidae**

3 specimens (not determined)

**Chironomidae**

1 specimen (not determined)

**Ceratopogonidae**

*Forcipomyia* species (not determined) 1♀

**Scatopsidae**

*Swammerdamella brevicornis* (Meigen) 1♂

**Mycetophilidae**

*Acnemia nitidicollis* (Meigen) 1♂  
*Trichonta terminalis* (Walker) 1♂

**Sciaridae**

undetermined Sciaridae 6

**Cecidomyiidae**

17 specimens

**Asilidae**

*Dioctria linearis* (Fabricius) 1♂

**Hybotidae**

*Hybos culiciformis* (Fabricius) 3♂, 5♀  
*Platypalpus annulipes* (Meigen) 1♀  
*P. longiseta* (Zetterstedt) 1♂, 1♀  
*P. pallipes* (Fallén) 1♀  
*Tachypeza nubila* (Meigen) 1♂  
*D. (Elaphropeza) ephippiata* (Fallén) 1♂

**Empididae**

*Empis livida* Linnaeus 1♂

## TRAP 18, 9th August (Second Tube)

### Dolichopodidae

*Argyra leucocephala* (Meigen) 1♀  
*Chrysotus* species (females of *gramineus* group) 13♀  
*Dolichopus festivus* Haliday 1♂  
*Medetera impigra* (Fallén) 3♂, 3♀  
*M. pallipes* (Zetterstedt) 1♂  
*M. truncorum* Meigen 1♂, 3♀

### Phoridae

*Borophaga incrassata* (Meigen) 1♂  
*Diplonevra concinna* (Meigen) 1♂  
*D. funebris* (Meigen) 1♂  
*D. nitidula* (Meigen) 10♂  
*D. pilosella* Schmitz 4♂  
*Diplonevra* species females (not determined) 3♀  
*Megaselia* species (not determined) 40♂, 30♀  
*Metopina oligoneura* (Mik) 1♂, 3♀  
*Phora atra* (Meigen) 1♂  
*Triphleba distinguenda* (Strobl) 1♂  
*T. nudipalpis* (Becker) 34♂, 4♀

### Pipunculidae

*Chalarus* species (not determined) 1♂

### Syrphidae

*Episyrphus balteatus* (De Geer) 8♂, 10♀  
*Sphaerophoria* species females (not determined) 1♀  
*Melanostoma scalare* (Fabricius) 1♂, 4♀  
*Platycheirus albimanus* (Fabricius) 2♂  
*Eristalis pertinax* (Scopoli) 2♂

### Tephritidae

*Tephritis formosa* (Loew) 1♂

### Pallopteridae

*Palloptera umbellatarum* (Fabricius) 1♂, 2♀  
*P. ustulata* Fallén 1♀

### Sciomyzidae

*Trypetoptera punctulata* (Scopoli) 1♂

### Lauxaniidae

*Sapromyza sexpunctata* Meigen 1♂  
*Tricholauxania praeusta* (Fallén) 2♀

## TRAP 18, 9th August (Second Tube)

### Sepsidae

*Themira annulipes* (Meigen) 1♂  
*Sepsis* species 1♀

### Drosophilidae

*Amiota alboguttata* (Wahlberg) (sensu Maça) 1♂  
*Scaptomyza* (*Parascaptomyza*) *pallida* (Zetterstedt) 2♂, 1♀  
*Drosophila cameraria* Haliday 1♂  
*D. subobscura* Collin in Gordon 2♀

### Ephydriidae

*Limnellia quadrata* (Fallén) 1♀  
*Trimerina madizans* (Fallén) 1♂

### Sphaeroceridae

*Chaetopodella scutellaris* (Haliday) 3♂, 3♀  
*Opacifrons coxata* (Stenhammar) 1♂  
*O. humida* (Haliday) 1♀

### Agromyzidae

*Agromyza mobilis* Meigen 2♂, 1♀  
*Liriomyza flaveola* (Fallén) 1♀  
*Phytomyza crassiseta* Zetterstedt 1♀  
*Phytomyza* species 1♀  
*Cerodontha* (*Poemyza*) *atra* (Meigen) 4♂, 4♀  
*C. (Dizygomyza) luctuosa* (Meigen) 2♂

### Chloropidae

*Tricimba cincta* (Meigen) 1♂  
*Gaurax fascipēs* (Becker) 1♀  
*Elachiptera tuberculifera* (Corti) 1♂  
*Oscinella* species (not determined) 21♂, 17♀  
*Meromyza* species 1♀

### Scathophagidae

*Scathophaga stercoraria* (Linnaeus) 1♂, 1♀

### Anthomyiidae (nomenclature updated from D.M. Ackland MS list)

*Botanophila fugax* (Meigen) 6♂  
*Botanophila* or *Delia* females (not determined) 28♀  
*Delia platura* (Meigen) (= *cilicrura*) 3♂  
*Emmesomyia socia* (Fallén) (= *villica* Meigen) 4♀  
*Hylemya vagans* (Panzer) (= *strenua* Robineau-Desvoidy) 1♀



**TRAP 18, 9th August (Second Tube)**

**Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Hydrotaea irritans* (Fallén) 41 ♀  
*Mesembrina meridiana* (Linnaeus) 2 ♀  
*Musca autumnalis* De Geer 3 ♀  
*Morellia aenescens* Robineau-Desvoidy 2 ♀  
*Neomyia viridescens* (Robineau-Desvoidy) (= *cornicina* auctt.) 1 ♂  
*Phaonia angelicae* (Scopoli) (= *basalis* (Zetterstedt)) 2 ♀  
*P. rufiventris* (Scopoli) (= *populi* (Meigen)) 1 ♀  
*P. tuguriorum* (Scopoli) (= *signata* (Meigen)) 1 ♂, 1 ♀  
*P. valida* (Harris) (= *viarum* Robineau-Desvoidy) 2 ♂  
*Helina depuncta* (Fallén) 1 ♀  
*H. impuncta* (Fallén) 1 ♀  
*H. quadrum* (Fabricius) 1 ♀  
*Mydaea urbana* (Meigen) 1 ♀  
*Myospila meditabunda* (Fabricius) 1 ♀  
*Hebecnema vespertina* (Fallén) (= *affinis* Malloch) 1 ♂  
*Coenosia albicornis* Meigen (= *lineatipes* (Zetterstedt)) 1 ♂  
*C. infantula* Rondani 2 ♂, 1 ♀  
*C. mollicula* (Fallén) 1 ♂

**Fanniidae**

*Fannia genualis* (Stein) 1 ♂  
*Fannia* females (not determined) 21 ♀

**Calliphoridae** (nomenclature follows Rognes, Fauna Ent. Scand.)

*Bellardia viarum* (Robineau-Desvoidy) (= *pusilla* auctt., *aculeata* (Pandellé)) 2 ♂  
*Lucilia ampullacea* Villeneuve 1 ♀  
*Pollenia pediculata* Macquart (= *pseudorudis* Rognes) 2 ♂

**Sarcophagidae** (nomenclature follows Pape, Fauna Ent. Scand.)

*Heteronychia haemorrhoea* Meigen 1 ♂  
*Sarcophaga carnaria* (Linnaeus) (= *schulzi* Muller, var. *vulgaris* Rohdendorf of van Emden) 1 ♂  
*Sarcophaga* species females 2 ♀

**Tachinidae** (determined from and following Belshaw, RES Handbook)

*Actia lamia* (Meigen) 1 ♀  
*Siphona cristata* (Fabricius) 1 ♂

LIST OF DIPTERA PRESENT IN TRAP 18 ON 12TH AUGUST

**Limoniidae**

*Rhipidia maculata* Meigen (= *duplicata* auctt.) 1♀

**Psychodidae**

2 specimens

**Chironomidae**

2 specimens

**Keroplastidae**

*Neoplatyura modesta* (Winnertz) 1♂

**Mycetophilidae**

*Cordyla murina* Winnertz Group species B 1♂

*Brevicornu fissicauda* (Lundström) 1♂

*Exechia* species (female of *repanda* group) 1♀

*Phronia conformis* (Walker) 1♂

*Zygomyia* species females (not determined) 1♀

**Sciaridae**

*Plastosciara brachyptera* (Kieffer) 1♂

*Phytosciara flavipes* (Meigen) 1♀

undetermined Sciaridae 4

**Cecidomyiidae**

6 specimens

**Hybotidae**

*Leptozepe flavipes* (Meigen) 1♀

*Hybos culiciformis* (Fabricius) 8♂, 3♀

*D. (Elaphropeza) ephippiata* (Fallén) 3♀

**Empididae**

*Trichopeza longicornis* (Meigen) 1♀

**Dolichopodidae**

*Campsicnemus curvipes* (Fallén) 1♂

*Argyra leucocephala* (Meigen) 1♀

*Chrysotus* species (females of *gramineus* group) 9♀

*Medetera abstrusa* Thunberg 1♂

*M. pallipes* (Zetterstedt) 1♀

*M. truncorum* Meigen 3♂, 5♀

## TRAP 18, 12th August

### **Phoridae**

*Borophaga incrassata* (Meigen) 1♀  
*Conicera floricola* Schmitz 1♂  
*C. similis* (Haliday) 1♂  
*Diplonevra nitidula* (Meigen) 5♂, 1♀  
*Diplonevra* species females (not determined) 1♀  
*Megaselia* species (not determined) 32♂, 25♀  
*Phalacrotophora fasciata* (Fallén) 1♂  
*Phora holosericea* Schmitz 1♂  
*Phora* species females (not determined) 4♀  
*Triphleba distinguenda* (Strobl) 1♂  
*T. nudipalpis* (Becker) 18♂, 1♀

### **Pipunculidae**

*Chalarus* species (not determined) 3♀  
*Cephalops semifumosus* (Kowarz) 1♀

### **Syrphidae**

*Syrphus ribesii* (Linnaeus) 1♀  
*Episyrphus balteatus* (De Geer) 1♂, 2♀  
*Melanostoma scalare* (Fabricius) 5♀  
*Platycheirus peltatus* (Meigen) 1♀  
*Eristalis arbustorum* (Linnaeus) 1♀

### **Pallopteridae**

*Palloptera umbellatarum* (Fabricius) 1♂, 1♀  
*P. ustulata* Fallén 1♀

### **Lauxaniidae**

*Sapromyza sexpunctata* Meigen 2♂

### **Opomyzidae**

*Opomyza germinationis* (Linnaeus) 2♂, 1♀

### **Clusiidae**

*Clusiodes* species 1♀

### **Heleomyzidae**

*Suillia affinis* (Meigen) 1♀

### **Drosophilidae**

*Amiota alboguttata* (Wahlberg) (sensu Maça) 1♀  
*Scaptomyza (S.) flava* (Fallén) 1♂  
*S. (Parascaptomyza) pallida* (Zetterstedt) 2♂, 2♀

## **TRAP 18, 12th August**

*Drosophila andalusiaca* Strobl 1♀  
*D. cameraria* Haliday 1♀  
*D. subobscura* Collin in Gordon 3♂, 8♀

### **Ephydridae**

*Coenia* species female 1♀  
*Limnellia quadrata* (Fallén) 1♂

### **Sphaeroceridae**

*Chaetopodella scutellaris* (Haliday) 2♂, 2♀  
*Opacifrons coxata* (Stenhammar) 1♀  
*O. septentrionalis* (Stenhammar) 2♂, 2♀

### **Agromyzidae**

*Phytomyza* species 1♀  
*Cerodontha* (C.) *denticornis* (Panzer) 1♀

### **Chloropidae**

*Oscinella* species (not determined) 7♂, 8♀

### **Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Botanophila fugax* (Meigen) 2♂  
*Botanophila* or *Delia* females (not determined) 12♀  
*Emmesomyia socia* (Fallén) (= *villica* Meigen) 1♀

### **Muscidae** (nomenclature updated from Pont in Palaeartic Catalogue)

*Hydrotaea irritans* (Fallén) 5♀  
*Polieta lardarius* (Fabricius) 2♂  
*Morellia aenes̄cens* Robineau-Desvoidy 1♂, 2♀  
*Phaonia angelicae* (Scopoli) (= *basalis* (Zetterstedt)) 1♀  
*Hebecnema umbratica* (Meigen) 1♂, 3♀  
*Graphomya maculata* (Scopoli) 1♂  
*Coenosia infantula* Rondani 2♂, 1♀  
*C. mollicula* (Fallén) 1♂  
*C. tigrina* (Fabricius) 1♂

### **Fanniidae**

*Fannia pallitibia* (Rondani) 1♀  
*F. serena* (Fallén) 1♂  
*Fannia* females (not determined) 2♀

### **Calliphoridae** (nomenclature follows Rognes, Fauna Ent. Scand.)

*Melanomya nana* (Meigen) 1♂  
*Lucilia ampullacea* Villeneuve 1♀

**TRAP 18, 12th August**

**Sarcophagidae** (nomenclature follows Pape, Fauna Ent. Scand.)

*Sarcophaga subvicina* Rohdendorf 1♂

*Sarcophaga* species females 1♀

**Tachinidae** (determined from and following Belshaw, RES Handbook)

*Ligeria angusticornis* (Loew) 1♀

LIST OF DIPTERA PRESENT IN TRAP 18 ON 18TH AUGUST

**Keroplastidae**

*Neoplatyura modesta* (Winnertz) 2♂  
*N. nigricauda* (Strobl) 1♂

**Mycetophilidae**

*Acnemia nitidicollis* (Meigen) 2♂, 1♀  
*Cordyla crassicornis* Meigen 1♂  
*Zygomyia notata* (Stannius) 1♂  
*Zygomyia* species females (not determined) 1♀

**Sciaridae**

*Trichosia* (*T.*) *caudata* (Walker) 1♂  
*T. (Leptosciarella) pilosa* (Staeger) 1♂  
undetermined Sciaridae 1

**Cecidomyiidae**

4 specimens

**Hybotidae**

*Hybos culiciformis* (Fabricius) 3♂, 1♀  
*Drapetis* (*D.*) *assimilis* (Fallén) 1♀

**Dolichopodidae**

*Argyra leucocephala* (Meigen) 1♀  
*Chrysotus* species (females of *gramineus* group) 1♀  
*Medetera jacula* (Fallén) 1♂  
*M. pallipes* (Zetterstedt) 1♂, 1♀  
*M. truncorum* Meigen 1♂, 4♀

**Phoridae**

*Borophaga incrassata* (Meigen) 1♂  
*Diplonevra florea* (Fabricius) 2♂  
*D. nitidula* (Meigen) 8♂, 1♀  
*D. pilosella* Schmitz 3♂  
*Megaselia* species (not determined) 24♂, 26♀  
*Metopina galeata* (Haliday) 1♂  
*Triphleba distinguenda* (Strobl) 1♂  
*T. nudipalpis* (Becker) 32♂, 3♀

**Pipunculidae**

*Cephalops semifumosus* (Kowarz) 1♂  
*C. ultimus* (Becker) 1♀

**TRAP 18, 18th August**

**Syrphidae**

*Melanostoma scalare* (Fabricius) 1♀  
*Platycheirus peltatus* (Meigen) 1♀  
*Cheilosia intonsa* Loew 2♀

**Palloppteridae**

*Pallopptera ustulata* Fallén 1♀

**Sciomyzidae**

*Trypetoptera punctulata* (Scopoli) 1♂

**Lauxaniidae**

*Minettia rivosae* (Meigen) 1♀

**Psilidae**

*Psila rosae* (Fabricius) group females 1♀

**Opomyzidae**

*Geomyza tripunctata* Fallén 1♀

**Heleomyzidae**

*Suillia variegata* (Loew) 1♂, 1♀

**Drosophilidae**

*Scaptomyza (Parasaptomyza) pallida* (Zetterstedt) 1♂, 1♀  
*Drosophila subobscura* Collin in Gordon 3♀

**Ephydriidae**

*Limnellia quadrata* (Fallén) 1♀

**Sphaeroceridae**

*Chaetopodella scutellaris* (Haliday) 2♂, 1♀  
*Opacifrons coxata* (Stenhammar) 1♀  
*O. humida* (Haliday) 2♂  
*O. septentrionalis* (Stenhammar) 2♀

**Agromyzidae**

*Liriomyza flaveola* (Fallén) 2♀  
*Cerodontha (Poemyza) atra* (Meigen) 1♀

## TRAP 18, 18th August

### **Chloropidae**

*Tricimba cincta* (Meigen) 1♂  
*Elachiptera tuberculifera* (Corti) 1♂

### **Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Botanophila fugax* (Meigen) 1♂  
*B. striolata* (Fallén) 1♂  
*Botanophila* or *Delia* females (not determined) 2♀  
*Hylemyza partita* (Meigen) (= *lasciva*) 1♂, 1♀  
*Pegoplata nitidicauda* (Schnabl) (= *virginea* auctt.) 1♀

### **Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Muscina prolapsa* (Harris) (= *pabulorum* (Fallén)) 1♂  
*Hydrotaea irritans* (Fallén) 1♂, 36♀  
*Morellia aenescens* Robineau-Desvoidy 4♀  
*Phaonia angelicae* (Scopoli) (= *basalis* (Zetterstedt)) 3♀  
*P. valida* (Harris) (= *viarum* Robineau-Desvoidy) 1♂  
*Helina depuncta* (Fallén) 1♀  
*Hebecnema vespertina* (Fallén) (= *affinis* Malloch) 1♂  
*Coenosia agromyzina* (Fallén) 1♂  
*C. infantula* Rondani 1♂

### **Fanniidae**

*Fannia* females (not determined) 1♀

### **Calliphoridae** (nomenclature follows Rognes, Fauna Ent. Scand.)

*Lucilia ampullacea* Villeneuve 1♀  
*L. caesar* (Linnaeus) 1♀  
*Pollenia pediculata* Macquart (= *pseudorudis* Rognes) 1♂

### **Sarcophagidae** (nomenclature follows Pape, Fauna Ent. Scand.)

*Parasarcophaga caerulescens* (Zetterstedt) (= *scoparia* (Pandellé)) 1♂  
*Sarcophaga carnaria* (Linnaeus) (= *schulzi* Muller, var. *vulgaris* Rohdendorf of van Emden) 1♂  
*S. variegata* (Scopoli) (= *carnaria* auctt., typical form of van Emden) 1♂  
*Sarcophaga* species females 7♀

### **Tachinidae** (determined from and following Belshaw, RES Handbook)

*Actia pilipennis* (Fallén) 1♀





LIST OF DIPTERA PRESENT IN TRAP 18 ON 23RD AUGUST

**Tipulidae**

*Tipula oleracea* Linnaeus 1♂

**Psychodidae**

1 specimen

**Ceratopogonidae**

*Forcipomyia* species (not determined) 1♀

**Keroplastidae**

*Neoplatyura modesta* (Winnertz) 1♂

**Mycetophilidae**

*Monoclona rufilatera* (Walker) 1♂, 1♀

*Acnemia nitidicollis* (Meigen) 2♂

*Sceptonia cryptocauda* Chandler 2♂

*S. nigra* (Meigen) 1♂

**Sciaridae**

undetermined Sciaridae 2

**Cecidomyiidae**

6 specimens

**Hybotidae**

*Hybos culiciformis* (Fabricius) 12♂, 3♀

*Drapetis (D.) parilis* Collin 1♂

*D. (Elaphropeza) ephippiata* (Fallén) 1♂, 3♀

**Dolichopodidae**

*Chrysotus* species (females of *gramineus* group) 4♀

*Dolichopus festivus* Haliday 1♂

*D. plumipes* (Scopoli) 1♀

*D. trivialis* Haliday 1♂

*D. wahlbergi* Zetterstedt 1♀

*Medetera jacula* (Fallén) 2♂

*M. pallipes* (Zetterstedt) 2♂, 4♀

*M. truncorum* Meigen 4♀

**Phoridae**

*Borophaga incrassata* (Meigen) 4♂, 1♀

*Diplonevra funebris* (Meigen) 5♂

*D. nitidula* (Meigen) 13♂

## **TRAP 18, 23rd August**

*D. pilosella* Schmitz 15♂  
*Diplonevra* species females (not determined) 7♀  
*Megaselia* species (not determined) 29♂, 54♀  
*Metopina heselhausi* Schmitz 1♀  
*M. oligoneura* (Mik) 1♂, 2♀  
*Phalacrotophora fasciata* (Fallén) 1♀  
*Phora atra* (Meigen) 4♂  
*Triphleba distinguenda* (Strobl) 2♂  
*T. nudipalpis* (Becker) 45♂, 1♀

### **Pipunculidae**

*Cephalops obtusinervis* (Zetterstedt) 1♀  
*C. semifumosus* (Kowarz) 4♀  
*C. ultimus* (Becker) 1♀  
*Tomosvaryella kuthyi* (Aczél) 1♀

### **Syrphidae**

*Episyrphus balteatus* (De Geer) 2♀  
*Baccha elongata* (Fabricius) sensu lato 1♀  
*Melanostoma mellinum* (Linnaeus) 1♂  
*M. scalare* (Fabricius) 2♀  
*Platycheirus peltatus* (Meigen) 2♀  
*Cheilosisa pagana* (Meigen) 6♀  
*Eristalis pertinax* (Scopoli) 1♀

### **Tephritidae**

*Phagocarpus purmundus* (Harris) 1♀

### **Pallopteridae**

*Palloptera umbellatarum* (Fabricius) 2♂, 1♀

### **Sciomyzidae**

*Trypetoptera punctulata* (Scopoli) 1♂

### **Lauxaniidae**

*Sapromyza sexpunctata* Meigen 1♂  
*Lyciella rorida* (Fallén) 1♀  
*Calliopum aeneum* (Fallén) 1♂

### **Psilidae**

*Psila rosae* (Fabricius) group females 1♀

### **Opomyzidae**

*Opomyza germinationis* (Linnaeus) 1♂

**TRAP 18, 23rd August**

**Sepsidae**

*Sepsis* species 1♀

**Heleomyzidae**

*Suillia affinis* (Meigen) 1♀  
*S. variegata* (Loew) 2♂, 1♀

**Drosophilidae**

*Scaptomyza (Parascaptomyza) pallida* (Zetterstedt) 1♀  
*Drosophila subobscura* Collin in Gordon 2♀

**Ephydriidae**

*Philygria stictica* (Meigen) 1♂

**Sphaeroceridae**

*Chaetopodella scutellaris* (Haliday) 1♂  
*Spelobia palmata* (Richards) 1♂

**Agromyzidae**

*Agromyza mobilis* Meigen 2♂, 2♀  
*Liriomyza flaveola* (Fallén) 2♀  
*Phytomyza* species 1♀  
*Cerodontha (Poemyza) atra* (Meigen) 2♀

**Chloropidae**

*Tricimba cincta* (Meigen) 2♂  
*Oscinella* species (not determined) 2♂, 2♀  
*Chlorops hypostigma* Meigen 1♂

**Scathophagidae**

*Scathophaga furcata* (Say) 1♂

**Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Botanophila fugax* (Meigen) 5♂  
*Botanophila* or *Delia* females (not determined) 15♀  
*Hylemya vagans* (Panzer) (= *strenua* Robineau-Desvoidy) 1♂  
*Hylemya partita* (Meigen) (= *lasciva*) 2♀  
*Pegomya calyptata* (Zetterstedt) 1♀

**Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Hydrotaea albipuncta* (Zetterstedt) 1♀  
*H. irritans* (Fallén) 86♀  
*H. meteorica* (Linnaeus) 1♀

## **TRAP 18, 23rd August**

*Mesembrina meridiana* (Linnaeus) 2♀  
*Polietes lardarius* (Fabricius) 3♂  
*Musca autumnalis* De Geer 1♀  
*Neomyia viridescens* (Robineau-Desvoidy) (= *cornicina* auctt.) 1♂  
*Eudasyphora* (= *Dasyphora*) *cyanella* (Meigen) 1♂  
*Phaonia angelicae* (Scopoli) (= *basalis* (Zetterstedt)) 2♀  
*P. pallida* (Fabricius) 1♀  
*P. tuguriorum* (Scopoli) (= *signata* (Meigen)) 1♀  
*P. valida* (Harris) (= *viarum* Robineau-Desvoidy) 2♀  
*Helina depuncta* (Fallén) 7♀  
*H. impuncta* (Fallén) 5♀  
*H. quadrum* (Fabricius) 1♀  
*Hebecnema vespertina* (Fallén) (= *affinis* Malloch) 1♂  
*Coenosia albicornis* Meigen (= *lineatipes* (Zetterstedt)) 1♀  
*C. infantula* Rondani 2♂

### **Fanniidae**

*Piezura graminicola* (Zetterstedt) 1♀  
*Fannia* females (not determined) 2♀

### **Calliphoridae** (nomenclature follows Rognes, Fauna Ent. Scand.)

*Calliphora vicina* Robineau-Desvoidy 1♀  
*Lucilia ampullacea* Villeneuve 2♀  
*L. caesar* (Linnaeus) 4♀  
*Pollenia angustigena* Wainwright 2♀  
*P. pediculata* Macquart (= *pseudorudis* Rognes) 1♂, 1♀

### **Sarcophagidae** (nomenclature follows Pape, Fauna Ent. Scand.)

*Helicophagella agnata* (Rondani) 1♂  
*Sarcophaga carnaria* (Linnaeus) (= *schulzi* Muller, var. *vulgaris* Rohdendorf of van Emden) 4♂  
*S. subvicina* Rohdendorf 1♂  
*S. variegata* (Scopoli) (= *carnaria* auctt., typical form of van Emden) 1♂  
*Sarcophaga* species females 10♀

### **Tachinidae** (determined from and following Belshaw, RES Handbook)

*Siphona geniculata* (De Geer) 2♂

LIST OF DIPTERA PRESENT IN TRAP 18 ON 26TH AUGUST

**Limoniidae**

*Neolimonia dumetorum* (Meigen) 1♂

**Bibionidae**

*Dilophus febrilis* (Linnaeus) 1♀

**Mycetophilidae**

*Leia cylindrica* (Winnertz) 1♂

**Sciaridae**

undetermined Sciaridae 1

**Cecidomyiidae**

4 specimens

**Hybotidae**

*Hybos culiciformis* (Fabricius) 1♂, 2♀

*Drapetis (D.) assimilis* (Fallén) 1♂

**Dolichopodidae**

*Campsicnemus curvipes* (Fallén) 1♂

*Argyra argentina* (Meigen) 1♀

*Dolichopus griseipennis* Stannius 1♀

*Medetera impigra* (Fallén) 1♂

*M. jacula* (Fallén) 1♀

*M. truncorum*, Meigen 1♀

**Phoridae**

*Conicera floricola* Schmitz 1♂

*Diplonevra nitidula* (Meigen) 5♂, 1♀

*D. pilosella* Schmitz 5♂

*Diplonevra* species females (not determined) 1♀

*Phora* species females (not determined) 1♀

*Triphleba distinguenda* (Strobl) 2♂

*T. nudipalpis* (Becker) 8♂, 2♀

**Pipunculidae**

*Cephalops semifumosus* (Kowarz) 1♂, 1♀

*Eudorylas subfascipes* Collin 1♀

**Syrphidae**

*Melanostoma scalare* (Fabricius) 1♀

*Platycheirus peltatus* (Meigen) 1♂, 1♀

**TRAP 18, 26th August**

*Helophilus pendulus* (Linnaeus) 1♀

**Pallopteridae**

*Palloptera umbellatarum* (Fabricius) 1♂, 1♀

**Lauxaniidae**

*Lyciella subfasciata* (Zetterstedt) 1♀

**Heleomyzidae**

*Suillia affinis* (Meigen) 2♀

*S. variegata* (Loew) 1♂

**Drosophilidae**

*Scaptomyza (Parascaptomyza) pallida* (Zetterstedt) 1♂, 2♀

*Drosophila subobscura* Collin in Gordon 2♀

**Ephydriidae**

*Limnellia quadrata* (Fallén) 1♂

**Sphaeroceridae**

*Spelobia palmata* (Richards) 1♂

**Agromyzidae**

*Napomyza hirticornis* (Hendel) 1♀

**Scathophagidae**

*Scathophaga stercoraria* (Linnaeus) 6♂, 1♀

**Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Botanophila* or *Delia* females (not determined) 1♀

*Hylemya urbica* (van der Wulp) (= *latifrons* Schnabl) 1♀

*H. variata* (Fallén) 1♀

*Hylemyza partita* (Meigen) (= *lasciva*) 1♀

**Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Polietes lardarius* (Fabricius) 2♂

*Morellia aenescens* Robineau-Desvoidy 1♀

*Phaonia rufiventris* (Scopoli) (= *populi* (Meigen)) 1♀

*P. tugariorum* (Scopoli) (= *signata* (Meigen)) 2♂

*P. valida* (Harris) (= *viarum* Robineau-Desvoidy) 2♀

*Helina depuncta* (Fallén) 4♀

*Coenosia albicornis* Meigen (= *lineatipes* (Zetterstedt)) 1♀

**TRAP 18, 26th August**

**Fanniidae**

*Fannia* females (not determined) 1♀

**Calliphoridae** (nomenclature follows Rognes, Fauna Ent. Scand.)

*Lucilia ampullacea* Villeneuve 1♀

**Sarcophagidae** (nomenclature follows Pape, Fauna Ent. Scand.)

*Sarcophaga carnaria* (Linnaeus) (= *schulzi* Muller, var. *vulgaris* Rohdendorf of van Emden) 1♂  
*Sarcophaga* species females 5♀

**Tachinidae** (determined from and following Belshaw, RES Handbook)

*Macquartia tenebricosa* (Meigen) 1♀





LIST OF DIPTERA PRESENT IN TRAP 18 ON 30TH AUGUST

**Psychodidae**

1 specimen

**Chironomidae**

1 specimen

**Ceratopogonidae**

1 ♀ specimen (not determined)

**Bibionidae**

*Dilophus febrilis* (Linnaeus) 3♂, 4♀

**Keroplastidae**

*Neoplatyura modesta* (Winnertz) 1♂, 3♀

**Mycetophilidae**

*Acnemia nitidicollis* (Meigen) 1♂

*Zygomya* species females (not determined) 1♀

*Sceptonia nigra* (Meigen) 1♂

**Sciaridae**

*Schwenkfeldina carbonaria* (Meigen) 2♂, 1♀  
undetermined Sciaridae 7

**Cecidomyiidae**

5 specimens

**Stratiomyidae**

*Chorisops nagatomii* Rozkošny 1♂

**Hybotidae**

*Hybos culiciformis* (Fabricius) 3♂, 2♀

*Drapetis (D.) parilis* Collin 1♀

*D. (Elaphropeza) ephippiata* (Fallén) 1♀

**Empididae**

*Rhamphomyia erythrophthalma* Meigen (typical) 1♂

**Dolichopodidae**

*Systemus scholtzii* (Loew) 1♀

*Medetera abstrusa* Thunberg 1♂, 1♀

## TRAP 18, 30th August

*M. truncorum* Meigen 1♀

### Phoridae

*Diplonevra nitidula* (Meigen) 7♂  
*D. pilosella* Schmitz 14♂  
*Diplonevra* species females (not determined) 4♀  
*Megaselia* species (not determined) 57♂, 90♀  
*Metopina galeata* (Haliday) 2♂, 1♀  
*M. oligoneura* (Mik) 3♂, 3♀  
*Phora* species females (not determined) 5♀  
*Pseudacteon formicarum* (Verrall) 1♂  
*Triphleba distinguenda* (Strobl) 6♂, 1♀  
*T. nudipalpis* (Becker) 38♂, 10♀

### Pipunculidae

*Chalarus* species (not determined) 1♀  
*Cephalops semifumosus* (Kowarz) 1♂, 1♀  
*C. ultimus* (Becker) 2♀

### Syrphidae

*Baccha elongata* (Fabricius) sensu lato 1♂  
*Melanostoma scalare* (Fabricius) 2♀  
*Platycheirus scutatus* (Meigen) 1♀

### Pallopteridae

*Palloptera ustulata* Fallén 3♀

### Lonchaeidae

*Lonchaea laticornis* Meigen 1♀

### Clusiidae

*Clusiodes* species 1♀

### Sepsidae

*Sepsis orthocnemis* Frey 1♂  
*S. punctum* (Fabricius) 2♂  
*Sepsis* species 1♀

### Drosophilidae

*Drosophila subobscura* Collin in Gordon 5♀

### Ephydriidae

*Philygria stictica* (Meigen) 1♀

## **TRAP 18, 30th August**

### **Sphaeroceridae**

*Chaetopodella scutellaris* (Haliday) 3♂  
*Spelobia palmata* (Richards) 1♂, 1♀

### **Agromyzidae**

*Agromyza mobilis* Meigen 1♀  
*Liriomyza flaveola* (Fallén) 2♂, 1♀

### **Chloropidae**

*Elachiptera tuberculifera* (Corti) 2♂  
*Oscinella* species (not determined) 1♂, 1♀

### **Scathophagidae**

*Scathophaga stercoraria* (Linnaeus) 1♂, 3♀

### **Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Botanophila* or *Delia* females (not determined) 4♀  
*Emmesomyia socia* (Fallén) (= *villica* Meigen) 1♀  
*Pegoplata nitidicauda* (Schnabl) (= *virginea* auctt.) 1♀

### **Muscidae** (nomenclature updated from Pont in Palaearctic Catalogue)

*Hydrotaea irritans* (Fallén) 12♀  
*Mesembrina meridiana* (Linnaeus) 1♂  
*Polietes lardarius* (Fabricius) 3♂  
*Eudasyphora* (= *Dasyphora*) *cyanella* (Meigen) 1♂  
*Phaonia angelicae* (Scopoli) (= *basalis* (Zetterstedt)) 1♀  
*P. errans* (Meigen) 1♂  
*P. mystica* (Meigen) (= *vittifera* (Zetterstedt)) 1♀  
*P. rufiventris* (Scopoli) (= *populi* (Meigen)) 1♀  
*P. valida* (Harris) (= *viarum* Robineau-Desvoidy) 2♂, 7♀  
*Helina depuncta* (Fallén) 1♂, 5♀  
*H. impuncta* (Fallén) 8♀  
*Mydaea ancilla* (Meigen) 1♀  
*Hebecnema vespertina* (Fallén) (= *affinis* Malloch) 2♀  
*Coenosia albicornis* Meigen (= *lineatipes* (Zetterstedt)) 1♂, 4♀

### **Fanniidae**

*Fannia* females (not determined) 3♀

### **Rhinophoridae**

*Paykullia maculata* (Fallén) 1♀

### **Calliphoridae** (nomenclature follows Rognes, Fauna Ent. Scand.)

*Lucilia ampullacea* Villeneuve 1♀

**TRAP 18, 30th August**

**Sarcophagidae** (nomenclature follows Pape, Fauna Ent. Scand.)

*Sarcophaga carnaria* (Linnaeus) (= *schulzi* Muller, var. *vulgaris* Rohdendorf of van Emden) 3♂

*Sarcophaga* species females 8♀

LIST OF DIPTERA PRESENT IN TRAP 18 ON 2ND SEPTEMBER

**Bibionidae**

*Dilophus febrilis* (Linnaeus) 1♂, 1♀

**Mycetophilidae**

*Sciophila* species (undetermined female) 1♀

*Mycetophila cingulum* Meigen 1♂

*Zygomyia notata* (Stannius) 1♂

**Hybotidae**

*Hybos culiciformis* (Fabricius) 1♂

**Dolichopodidae**

*Dolichopus griseipennis* Stannius 2♂

**Phoridae**

*Diplonevra nitidula* (Meigen) 1♀

*Megaselia* species (not determined) 5♂, 2♀

*Triphleba nudipalpis* (Becker) 3♂, 2♀

**Pallopteridae**

*Palloptera ustulata* Fallén 1♀

**Heleomyzidae**

*Suillia variegata* (Loew) 1♀

**Drosophilidae**

*Scaptomyza (Parascaptomyza) pallida* (Zetterstedt) 2♀

*Drosophila subobscura* Collin in Gordon 1♀

**Sphaeroceridae**

*Minilimosina vitripennis* (Zetterstedt) 1♀

**Chloropidae**

*Oscinella* species (not determined) 1♂

**Scathophagidae**

*Scathophaga stercoraria* (Linnaeus) 1♂, 2♀

**Anthomyiidae** (nomenclature updated from D.M. Ackland MS list)

*Botanophila* or *Delia* females (not determined) 2♀

*Hylemya urbica* (van der Wulp) (= *latifrons* Schnabl) 1♀

## **TRAP 18, 2nd September**

### **Muscidae (nomenclature updated from Pont in Palaearctic Catalogue)**

- Hydrotaea armipes* (Fallén) 1♂  
*H. irritans* (Fallén) 2♀  
*Polietes lardarius* (Fabricius) 4♂, 2♀  
*Phaonia errans* (Meigen) 1♂  
*P. tuguriorum* (Scopoli) (= *signata* (Meigen)) 1♂  
*Helina depuncta* (Fallén) 4♀  
*H. impuncta* (Fallén) 3♀

### **Fanniidae**

- Fannia* females (not determined) 1

### **Calliphoridae (nomenclature follows Rognes, Fauna Ent. Scand.)**

- Lucilia ampullacea* Villeneuve 1♀  
*L. caesar* (Linnaeus) 1♀  
*Pollenia angustigena* Wainwright 1♀  
*P. pediculata* Macquart (= *pseudorudis* Rognes) 1♀

### **Sarcophagidae (nomenclature follows Pape, Fauna Ent. Scand.)**

- Sarcophaga* species females 2♀

LIST OF DIPTERA PRESENT IN TRAP 18 ON 6TH SEPTEMBER

**Tipulidae**

*Tipula paludosa* Meigen 1♂

**Limoniidae**

*Rhipidia maculata* Meigen (= *duplicata* auctt.) 1♀

**Psychodidae**

1 specimen

**Bibionidae**

*Dilophus febrilis* (Linnaeus) 3♀

**Mycetophilidae**

*Monoclona rufilatera* (Walker) 6♂

*Acnemia nitidicollis* (Meigen) 1♂

*Docosia fumosa* Edwards 1♀

*Phronia* species females (not determined) 1♀

*Zygomyia notata* (Stannius) 1♂

**Sciaridae**

undetermined Sciaridae 2

**Cecidomyiidae**

3 specimens

**Hybotidae**

*Platypalpus longicornis* (Meigen) 1♀

**Empididae**

*Rhamphomyia erythrophthalma* Meigen (typical) 1♂, 1♀

**Dolichopodidae**

*Dolichopus griseipennis* Stannius 1♂

*D. plumipes* (Scopoli) 2♀

*Medetera truncorum* Meigen 2♂, 3♀

**Lonchopteridae**

*Lonchoptera lutea* Panzer 1♀

**Phoridae**

*Borophaga incrassata* (Meigen) 1♀



### **TRAP 18, 6th September**

*Diplonevra nitidula* (Meigen) 5♂, 1♀  
*D. pilosella* Schmitz 5♂  
*Diplonevra* species females (not determined) 1♀  
*Megaselia* species (not determined) 26♂, 31♀  
*Metopina galeata* (Haliday) 1♂  
*M. heselhausi* Schmitz 1♀  
*M. oligoneura* (Mik) 1♀  
*Triphleba distinguenda* (Strobl) 3♂, 1♀  
*T. nudipalpis* (Becker) 12♂, 2♀

### **Pipunculidae**

*Cephalops semifumosus* (Kowarz) 1♀  
*Eudorylas subfascipes* Collin 2♂, 1♀

### **Syrphidae**

*Episyrphus balteatus* (De Geer) 2♂  
*Melanostoma scalare* (Fabricius) 3♀

### **Dryomyzidae**

*Dryomyza analis* (Fallén) (= *anilis* auctt.) 1♂

### **Sepsidae**

*Sepsis fulgens* Meigen 1♂  
*Sepsis* species 2♀

### **Heleomyzidae**

*Suillia fuscicornis* (Zetterstedt) 1♂

### **Drosophilidae**

*Scaptomyza* (*Parascaptomyza*) *pallida* (Zetterstedt) 1♂  
*Drosophila subobscura* Collin in Gordon 1♀

### **Ephydriidae**

*Philygria stictica* (Meigen) 1♀

### **Sphaeroceridae**

*Pullimosina pullula* (Zetterstedt) 1♀  
*Spelobia palmata* (Richards) 1♀

### **Chloropidae**

*Oscinella* species (not determined) 7♂, 6♀

## TRAP 18, 6th September

### Scathophagidae

*Scathophaga stercoraria* (Linnaeus) 5♂, 4♀

### Anthomyiidae (nomenclature updated from D.M. Ackland MS list)

*Botanophila* or *Delia* females (not determined) 7♀  
*Emmesomyia socia* (Fallén) (= *villica* Meigen) 1♀  
*Hylemya vagans* (Panzer) (= *strenua* Robineau-Desvoidy) 2♀  
*Mycophaga testacea* (Gimmerthal) 1♂  
*Pegomya bicolor* (Wiedemann) 1♀

### Muscidae (nomenclature updated from Pont in Palaearctic Catalogue)

*Hydrotaea irritans* (Fallén) 4♀  
*Polietes lardarius* (Fabricius) 3♂, 1♀  
*Phaonia rufiventris* (Scopoli) (= *populi* (Meigen)) 1♀  
*Helina depuncta* (Fallén) 4♂, 1♀  
*H. impuncta* (Fallén) 12♀  
*H. lasiophthalma* (Macquart) 1♀  
*Coenosia albicornis* Meigen (= *lineatipes* (Zetterstedt)) 2♀

### Fanniidae

*Fannia pallitibia* (Rondani) 1♀  
*Fannia* females (not determined) 2♀

### Rhinophoridae

*Paykullia maculata* (Fallén) 1♀

### Calliphoridae (nomenclature follows Rognes, Fauna Ent. Scand.)

*Melanomya nana* (Meigen) 1♂  
*Bellardia viarum* (Robineau-Desvoidy) (= *pusilla* auctt., *aculeata* (Pandellé)) 1♀  
*Lucilia caesar* (Linnaeus) 4♀

### Sarcophagidae (nomenclature follows Pape, Fauna Ent. Scand.)

*Sarcophaga* species females 3♀

### Tachinidae (determined from and following Belshaw, RES Handbook)

*Phryxe nemea* (Meigen) 1♀  
*Pales pavidus* (Meigen) 1♀