

Environmental Impact Assessment Report (EIAR)

Volume 6 of 6: Appendices

(Appendix 8.13) Water Treatment Plant Mollusc Survey Report

Document no: 32105801/EIARA8.13

Version: Final

December 2025

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Invertebrate survey at site of the proposed Water Treatment Plant site at Birdhill, Co. Tipperary

For Tobin Consulting Engineers

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Figure 1 - Pasture with hedgerow trees at site of proposed Water Treatment Plant site

1. Summary and key findings from the survey

1. We were engaged by Tobin Consulting Engineers to undertake an invertebrate survey at the site of a proposed Water Treatment Plant (WTP) in Birdhill, County Tipperary. The site is predominantly wet rush pasture and wet grassland with well-developed species rich hedgerows which include a mix of mature deciduous trees.
2. An exploratory invertebrate survey was completed late in 2020, and a reasonably diverse fauna was found. On the basis of the results of 2020 survey we were contracted to complete a more in-depth survey in 2021 to ensure that the invertebrate communities were adequately characterised. The key differences in the methods between the surveys were that in 2021:
 - Extra time was allocated to hand searching.

- Additional passive trapping techniques were used, namely:
 - Pitfall traps to sample ground dwelling fauna.
 - Flight intercept traps were set up in tree canopy that sample flying invertebrates.
 - The 2021 survey started earlier in the year to capture a greater range of species.
 - Diptera (two-winged flies) were added to the taxonomic groups for the survey.
3. The results of the 2020 and 2021 surveys show that the site contains a range of notable species which are listed in Sections 6.1 and 6.2. A total of 328 species were recorded across the two surveys (Table 1). The key features of the invertebrate communities on site are a rich rush pasture/wet grassland community that is comprised of species that are generally widespread across the landscape and therefore not at particular risk. Of more ecological interest is the community associated with woodland, especially saproxylic (dead wood associated) species. These include the first Irish record of the elm bark beetle, *Scolytus laevis*, and a number of other invertebrates that feed on sap runs, fungi or in/on wood. It is likely that there are other notable woodland and saproxylic species present on the site that were not captured by our sampling, but the work we have completed provides sufficient insight into this community to indicate that reasonable protective measures could be adopted.
 4. Whilst it may seem unexpected that a notable assemblage of woodland saproxylic species exists on a pasture dominated site, the setting at the WTP with many mature trees in hedgerows (See Figure 1, 7, 8 & 9) is similar to grazed woodland or parkland, which are both recognised for their potential to support significant tree associated invertebrate communities (Kirby, P. 1992).
 5. None of the species identified have statutory protection through Habitats Directive Annex II.
 6. We have put forward a range of protective measures to ameliorate impacts on the woodland assemblage which include:
 - Retain existing hedgerows and trees where possible especially wych elm.
 - Any landscaping plan should include planting of appropriate native trees including wych elm and creation of new hedgerows from native tree and shrub species.
 - The habitat management plan for the WTP should require hedges to be managed in a way that allows their current height and structure to be maintained. This will mean mature trees should be retained and hedges need to be traditionally cut and laid on a rotational basis.
 - Opportunities for provision of new habitat to compensate for those that are to be lost should be seized upon. This should include low density planting of trees and hedgerows, and low input (i.e. no fertiliser or herbicide) traditional grazing.

2. Description of the site

7. This survey was completed at the site of the proposed WTP in County Tipperary, close to the Parteen Basin impoundment south of Lough Derg.
8. The survey site was approximately 27.6 Ha in extent and is comprised of a series of small fields with wet meadow/rush pasture and well-developed hedgerows with mature trees. At a landscape scale the site is an island of traditionally managed land within improved agricultural fields and conifer plantations. Traditionally managed land with low inputs and benign hedgerow management practices are ecologically much richer than intensively managed pastures. The invertebrate habitats dominating the site are:
 - Unimproved rush pasture and wet meadow with tussocks.
 - Well-developed species-rich hedgerows and associated scrub.

- Woodland margin habitats along the southern boundary.
- Dead wood in hedgerows.
- Hedgerow trees.
- A series of aquatic habitats including drainage ditches (many of which may be dry for part of the year), small areas of marsh/pools (some of which are heavily poached by livestock) and areas of water-logged pasture supporting aquatic species in deep moss and flooded tractor ruts.

9. The location of the site relative to Parteen Basin is shown in Figure 2.

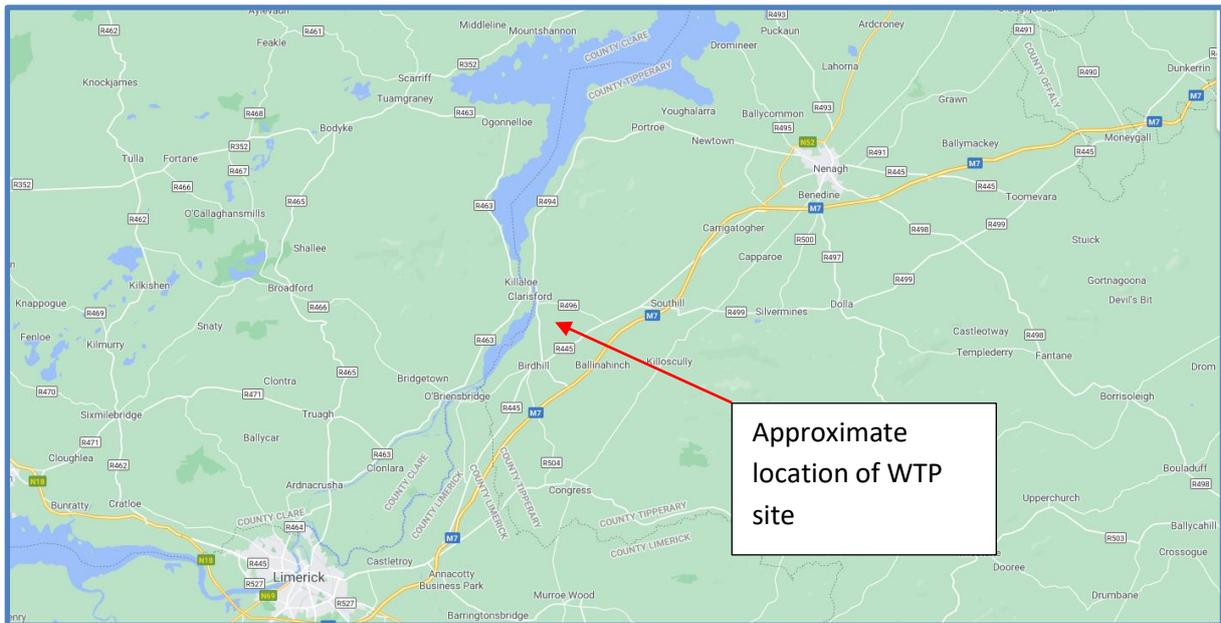


Figure 2 - Location of Water Treatment Plant site

10. The Project Boundary at the time of survey is shown in Figure 3.

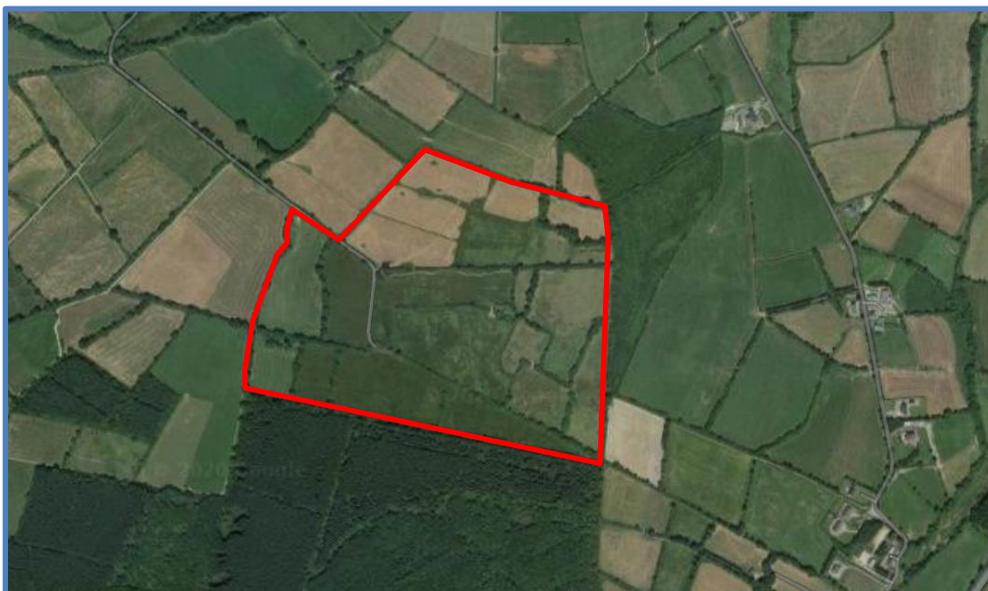


Figure 3 - Project Boundary at the time of survey of the Water Treatment Plant site

11. The WTP site is not within any designated nature conservation site.

3. Specification for the survey

3.1 2020 survey

12. The specification was as follows:

- Two days site work comprising hand searching for the following taxonomic groups:
 - Aranaea.
 - Coleoptera.
 - Mollusca.
 - Heteroptera.
- Provide a report to include:
 - Summary of the findings of the survey.
 - Brief description of the site and its location.
 - A list of species identified during the survey with location, date, habitat and niche occupied will be included as an appendix.
 - Identify any notable species found during the survey and provide a brief overview of their conservation status.
- For the target species we will offer our view on:
 - Is it likely to be at risk as a result of the development?
 - Possible protective measures to avoid or reduce impacts.

3.2 2021 survey

13. The specification for the 2021 survey was as per the 2020 survey with the following additions:

- Passive trapping using pitfall traps to sample ground dwelling invertebrates and flight intercept traps to sample invertebrates flying within the tree canopy.
- Four days of hand sampling as opposed to two.
- The survey commenced earlier in the year.
- Diptera (two-winged flies) were included in the taxonomic work for 2021 as good habitat quality indicators and Heteroptera were dropped because they were not well represented in 2020. Limited numbers of other groups of invertebrates were also recorded, e.g. woodlice, harvestmen etc.

4. Timing of the survey and difficulties encountered

4.1 2020 survey

14. The site was visited on the 21st and 22nd of September to conduct hand searching. The weather was warm, dry, and suitable for entomology fieldwork. No problems were encountered.

4.2 2021 survey

15. The site was visited in early July (1st and 2nd) and mid-August (17th and 18th). The weather was reasonably dry, warm, and suitable for entomology fieldwork.

16. The only problem encountered during fieldwork were the loss of five pitfall traps out of the ten that were installed. These were damaged by movement of vehicles. The summer of 2021 was also

hot and dry which is likely to have reduced the numbers of some groups of insects especially ground-dwelling species such as beetles and increased some others especially flies. It is impossible to know how these factors impacted on the results in detail, but overall we feel we have achieved a reasonable characterisation of the invertebrate community on the site.

5. Survey methodology

17. There is no guidance specific to Ireland for conducting this type of study. Thus, broad principles set out in the document, 'Surveying Terrestrial and Freshwater Invertebrates for Conservation Evaluation (NERRO05)' (Drake *et al.* 2007) were followed, tempered with extensive experience of surveying Irish habitats. The methodology was designed to provide a record of what's present on site at a point in time, rather than a standardised method that would limit discretion in what is studied and thus give a poorer outcome overall. The survey methodology was designed to collect invertebrates from wet or flooded semi-terrestrial habitats, rather than true river or lake species. The survey in question did not require a timed methodology nor one that was specific to an individual species, as the survey documented invertebrate species found across the site.

5.1 2020 survey

18. Searching was undertaken by sweep-netting the field and shrub layers, searching through moss and grass tussocks with a tray and sieve and using a pond net in water features on the site. Robust vegetation e.g. gorse and lower branches of trees were tapped onto a white tray for inspection. Aquatic habitats were sampled by depressing vegetation below the level of the water and running a net back and forth through the water to collect invertebrates. Sweep-netting was used extensively for sampling meadow and hedgerow fauna. Sweep netting involves using a lightweight net to capture flying insects and a heavier net for other invertebrates on stiff foliage by sweeping the net vigorously through vegetation. Contents of the net were tipped onto a white tray and sorted. Dead rotten wood was broken up into a white tray and carefully examined.
19. Other micro-habitats were investigated when encountered including turning wood and embedded stones and inspecting the undersides.
20. Where possible specimens were identified in the field and released. Those requiring microscope examination or identification using a key were taken away for later study. Soft-bodied invertebrate specimens (especially spiders) were stored in 70% industrial methylated spirits and others were retained live in specimen tubes with a little damp moss.

5.2 2021 survey

21. The survey methodology for the 2021 survey was the same as for 2020 with the following additions:
 - Pitfall traps were installed in transects at two locations (five traps at each). Pitfall traps consisted of a plastic cup with an 8cm opening sunk into the ground so that the lip was level with the ground surface and covered with chicken wire and a plastic cover to keep rain out. The chicken wire limits the potential for small vertebrates to become trapped.
 - Four flight intercept traps installed at two locations (two traps at each). An example flight intercept trap is shown in Figure 4. Flight intercept traps capture flying insects in the tree canopy and were hoisted into the canopy using a length of cord.
22. Pitfall and flight intercept traps were set with a preservative liquid consisting of a 50/50 mix of propylene glycol and water with a drop of detergent to break the surface tension. The

preservative allows traps to be left in-situ for an extended period and specimens to be collected over a period of several weeks. Traps were set on the 1st of July and emptied on 17th of August.

23. Locations of flight intercept traps and the pitfall traps transects are shown in Figure 5



Figure 4 - Example flight intercept trap

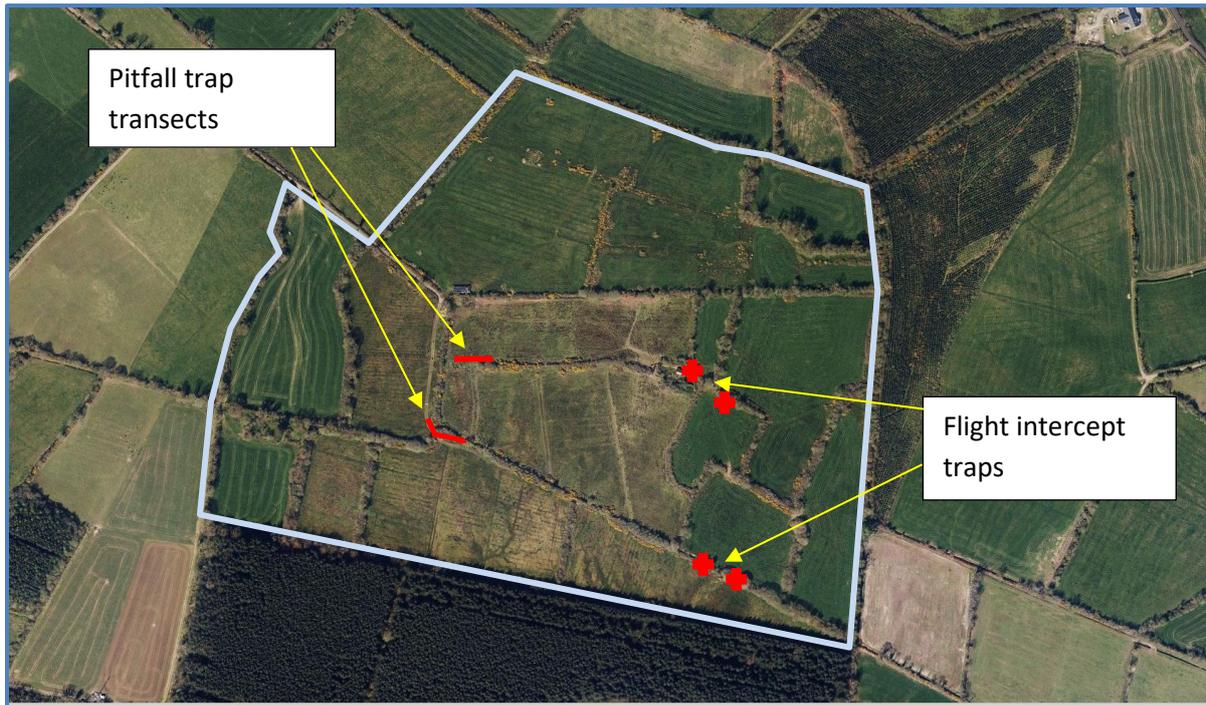


Figure 5 - Plan showing locations of pitfall transects and flight intercept traps

24. Taxonomic work for the project was completed by Adam Mantell for Aranaea and some Coleoptera (spiders and beetles), Dr. Roy Anderson for Coleoptera (beetles) and Dr. Peter Chandler for Diptera (two-winged flies).

6. Discussion and Recommendations

25. A number of notable species were identified during the surveys. Notable species from the 2020 and 2021 survey are listed below with a brief discussion of their significance.

6.1 Notable species from the 2020 survey

- ***Centromerus sylvaticus*** (Blackwall) (Aranaea: Linyphidae) (commonly referred to as sheetweb spider). *Centromerus sylvaticus* is regarded as a species of moss and litter in woodlands in Britain although it can also be found in rough grassland. This specimen was found in dead wood in a hedgerow. It has been recorded from just six counties in Ireland and is not frequently encountered. The existing records are from disparate locations (Galway, Kilkenny, Limerick, Tipperary, Tyrone and Wicklow) so it does not appear to show any marked geographical preferences in Ireland. *C. sylvaticus* is an anthropophobic species of undisturbed habitats with a consistent management history. The nature of the hedgerow management which provides the micro-habitats needed by this species is important in sustaining the population here.

6.2 Notable species from the 2021 survey

- ***Kaestnaeria dorsalis*** (Wider) (Aranaea: Linyphidae) (type of spider; no common name). *Kaestnaeria dorsalis* is a new county record for Tipperary. It is typically found in habitats with scrub and open woodlands. Its habitat is principally scrub and low canopy although it can be found in the ground layer occasionally (Spider Recording Scheme website 2021).

- ***Pirata latitans*** (Blackwall) (Aranaea: Lycosidae) (type of spider; no common name). This is a new county record for County Tipperary and is a scarce species in Ireland with previous records from just seven counties.
- ***Soronía grisea*** (Linnaeus) (Coleoptera: Nitidulidae) (commonly referred to as common pollen beetle) – *Soronía grisea* is a sap feeding saproxylic species indicative of old undisturbed woodland, likely to be living in mature hedgerow trees. It is widespread but very local in Ireland with most of the Irish records pre-dating 1975 based on data available from the National Biodiversity Data Centre online mapping system. Duff, A. (2020) reports this species as very local in Ireland.
- ***Scolytus laevis*** (Chapuis) (Coleoptera: Curculonidae) (commonly referred to as bark beetle). *Scolytus laevis* is a saproxylic beetle that lays eggs in the cortex of elms, usually *Ulmus glabra* and the larvae create distinctive gallery mines. It is one of a number of Scolytid beetles that are vectors of the fungal pathogens that cause Dutch elm disease (*Ophiostoma* sp.). It is one of the less common Scolytus species and this is the first Irish record. It is rare in Britain (Duff, A. 2016), and is thought to have arrived in Britain from continental Europe in the late 1940's where it shows little sign of significant increases in population. Illustrated in Figure 6.
- ***Dropephylla gracilicornis*** (Fairmaire & Laboulbène) (Coleoptera: Staphylinidae) (type of rove beetle; no common name). Scarce in Ireland with just six previous records. Considered to be a species of wood pasture and parkland trees in Britain which fits with the hedgerow tree setting this specimen was found in.
- ***Ptilinus pectinicornis*** (Linnaeus) (Coleoptera: Ptinidae) (commonly referred to as wood-bearing beetle). There are 25 previous Irish records of this saproxylic wood boring species. Its Irish distribution is reported as scarce (Duff, A. 2020) although it is perhaps better described as local based on our experience.
- ***Anobium inexpectatum*** (Lohse) (Coleoptera: Ptinidae) (type of wood boring beetle; no common name). One of the two saproxylic 'woodworm' beetles. This species is normally found in the wood of ivy (*Hedera helix*) and is considered scarce in Ireland (Duff, A. 2020). There are just two previous Irish records. This is not the species commonly found in untreated timber in synanthropic settings (*Anobium punctatum*).
- ***Drosophila tristis*** (Fallén) (Diptera: Drosophilidae) (commonly referred to as a European fruit fly species). A fly that feeds from sap runs on trees. It is very local in its Irish distribution.

26. In addition to the species listed above, the following more common species also have an association with wood and wood decay:

- *Salpingus planirostris* (Coleoptera: Tenebrionidae) (type of beetle; no common name) associated with dead wood,
- *Piezura pardalina* (Diptera: Fanniidae) (type of fly; no common name) associated with fungi,
- *Drosophila subobscura* (Diptera: Drosophilidae) (type of fruit fly; no common name) associated with fungi,
- *Ferdinandea cuprea* (Diptera: Syrphidae) (type of European hoverfly species; no common name) associated with sap runs,
- *Exechia seriata* (Diptera: Mycetophilidae) (type of fungus gnat species; no common name) associated with fungi, especially Boletes and Russulas),
- *Macrostera stigmoides* (Diptera: Keroplatidae) (type of fungus gnat species; no common name) a woodland species likely to be associated with fungi and dead wood,
- *Phaonia pallida* (Diptera: Muscidae) (commonly referred to as muscid fly) associated with fungi and under bark.



Figure 6 - *Scolytus laevis* Udo Schmidt Creative Commons licence (CC BY-SA 2.0)

6.3 Discussion

27. Table 1 shows numbers of species recorded at the proposed WTP site. Results from the surveys indicate a reasonably diverse invertebrate community as might be expected from a traditionally managed site such as this.

Table 1 - Numbers of species recorded in target groups in both surveys

Group	
Aranaea	56
Coleoptera	118
Diptera	129
Isopoda	5
Mollusca	18
TOTAL	329

28. None of the species recorded during the survey are listed in Annex II of the Habitats Directive or benefit from red list status although it should be noted that relatively few groups of invertebrates have been red listed to date in Ireland. If red listing were completed however, *Scolytus laevis* and *Anobium inexpectatum* would almost certainly gain a red list VU, CR, DD, or EN status due to their rarity and several others in Sections 6.1 and 6.2 are likely to be red listed on the basis of decline.

29. In terms of the invertebrate communities, species of wet habitats, saprophagic and dung feeding species are well represented as would be expected given the obviously wet nature of the site. The vast majority are relatively widespread and eurytopic species. Because these communities are common and widespread they are not considered of significant conservation concern and are therefore not discussed further.

30. The other community is a strong component of woodland species, many of which can be termed saproxylic, i.e. those invertebrates that are dependent on dead or decaying wood (or dependent on other organisms that are themselves dependent on dead wood e.g. beetles that predate fly

larvae in decaying fungal fruiting bodies). This community contained several species that are rare in an Irish context including the beetle *Scolytus laevis* which is the first record of this species from Ireland. These will be inhabiting the hedgerow wych elm that are a feature of this site.

31. In some ways the site is analogous to a parkland or grazed woodland setting which are known to support valuable invertebrate communities (Kirby, P. 1992 & Blakesley, D. 2010). Example images of the hedgerow with mature trees habitats are shown in Figure 1, Figure 7, Figure 8 and Figure 9.



Figure 7 - Typical mature hedgerow



Figure 8 - Typical mature hedgerow



Figure 9 - Typical mature hedgerow

32. Sampling saproxylic species is difficult as they are often small, cryptic and often have short flight periods during which many will not fly far from where they pupated before mating and egg-laying close by. Hand searching is often ineffective for those reasons. Passive trapping with flight intercept traps that are left in place for an extended period are often more effective.

6.4 Recommendations

33. In our opinion the saproxylic community at the WTP site is significant in conservation terms but does not receive any statutory protection (i.e. listing in Annex II of the Habitats Directive). To avoid or reduce impacts on the woodland and saproxylic invertebrate community we recommend that:

- The existing network of hedgerows and mature trees is maintained wherever possible within the site.
- A management plan is developed for both the hedgerows and trees focussing on traditional management techniques i.e. hedge laying rather than annual flailing. It is important that the plan retains the existing structure of the hedgerows and acknowledges the importance of managing trees sensitively. i.e. not automatically removing ivy, and taking a reasonable approach to managing safety issues around trees. It is important that the plan is written by an ecologist with a sound understanding of invertebrate ecology, but pointers are given in Kirby, P. (1992). The aim should be to retain the status quo but this cannot be achieved without active management.
- There should be a specific focus on retaining specimens of *Ulmus glabra* (wych elm) wherever possible.
- Appropriate new planting of new hedgerows and native trees around the site where there are opportunities to do so. The mix of species should reflect the already diverse hedgerows on the site rather than introduce new species. Use of non-native species should be avoided, and where possible new trees should be of Irish genetic origin. Trees should be planted at a low density to encourage a grazed woodland/parkland setting to develop.
- Opportunities for provision of new habitat to compensate for the areas that are to be lost should be seized upon. This should include planting of trees and hedgerows, and low inputs (i.e. no artificial fertilizer or herbicide) and traditional grazing with beef cattle at low stock density or managed as a traditional wildflower meadow by cutting once late in the summer. Multiple annual cuts for silage production should be avoided.

7. Bibliography

Blakesley, D. (2010) *Managing your Woodland for Wildlife*. Pisces publications

Byrne, A. M. (2009). *Ireland Red List No. 2: Non Marine Molluscs*. NPWS.

Drake, C. M., Lott, D. A., Alexander, K. N. A., & Webb, J. (2007). Surveying Terrestrial and Freshwater Invertebrates for Conservation Evaluation. *Nat Engl Res Rep*, 5, 1-123.

Duff, A. G. (2020). *Beetles of Britain and Ireland Vol. 3*.

Duff, A. G. (2016). *Beetles of Britain and Ireland Vol. 4*.

Kirby, P. (1992) *Habitat Management for Invertebrates: a practical handbook*. JNCC.

SRS (Spider Recording Scheme) website [A-Z Species Index \(britishspiders.org.uk\)](https://www.britishspiders.org.uk)

Annex 1 – species list from the 2020 survey

Group	Common name	Latin name	Date	Location	Habitat	Niche	Abundance
Aranaea	Money spider	<i>Palliduphantes pallidus</i>	21/09/2020	R72287061	Rush pasture	Around farm buildings	1
Aranaea	Long-jawed spider	<i>Metellina merianae</i>	21/09/2020	R72437033	Rush pasture	Under bark of dead hedgerow elm	1
Aranaea	Comb-footed spider	<i>Amaurobius fenestralis</i>	21/09/2020	R72437033	Rush pasture	Under bark of dead hedgerow elm	1
Aranaea	Running crab sider	<i>Philodromus cespitum</i>	21/09/2020	R72297042	Rush pasture	Tapped from hedgerow gorse	1
Aranaea	Money spider	<i>Linyphia triangularis</i>	21/09/2020	R72297042	Rush pasture	Tapped from hedgerow gorse	1
Aranaea	Long-jawed spider	<i>Metellina segmentata</i>	21/09/2020	R72297042	Rush pasture	Tapped from hedgerow gorse	1
Aranaea	Money spider	<i>Monocephalus castaneipes</i>	22/09/2020	R722703	Rush pasture	Dead wood in hedgerow	1
Aranaea	Money spider	<i>Neriene clathrata</i>	22/09/2020	R722703	Rush pasture	Dead wood in hedgerow	2
Aranaea	Theridiid spider	<i>Robertus lividus</i>	22/09/2020	R722703	Rush pasture	Dead wood in hedgerow	1
Aranaea	Money spider	<i>Centromerus sylvaticus</i>	22/09/2020	R722703	Rush pasture	Dead wood in hedgerow	1
Aranaea	Orb weaver	<i>Araneus diadematus</i>	22/09/2020	R721705	Rush pasture	Field layer	1
Aranaea	Orb weaver	<i>Araneus quadratus</i>	22/09/2020	R721705	Rush pasture	Field layer	1
Aranaea	Orb weaver	<i>Larinioides cornutus</i>	22/09/2020	R721705	Rush pasture	Field layer	1
Aranaea	Money spider	<i>Oedothorax fuscus</i>	22/09/2020	R721705	Rush pasture	Field layer	3
Aranaea	Long-jawed spider	<i>Pachygnatha degeeri</i>	22/09/2020	R721705	Rush pasture	Field layer	2
Aranaea	Long-jawed spider	<i>Tetragnatha extensa</i>	22/09/2020	R721705	Rush pasture	Field layer	1
Aranaea	Money spider	<i>Tenuiphantes tenuis</i>	22/09/2020	R721705	Rush pasture	Field layer	2
Aranaea	Money spider	<i>Oedothorax fuscus</i>	21/09/2020	R723703	Rush pasture	Field layer	8
Aranaea	Long-jawed spider	<i>Pachygnatha degeeri</i>	21/09/2020	R723703	Rush pasture	Field layer	1
Aranaea	Money spider	<i>Tallusia experta</i>	21/09/2020	R723703	Rush pasture	Field layer	3
Aranaea	Money spider	<i>Dicymbium nigrum</i>	21/09/2020	R723703	Rush pasture	Field layer	1
Aranaea	Money spider	<i>Erigone atra</i>	21/09/2020	R72267058	Rush pasture	Field layer	1
Aranaea	Money spider	<i>Centromerita bicolor</i>	21/09/2020	R72267058	Rush pasture	Field layer	1
Aranaea	Money spider	<i>Gonatium rubens</i>	21/09/2020	R72267058	Rush pasture	Field layer	1
Aranaea	Money spider	<i>Allomengea scopigera</i>	21/09/2020	R72267058	Rush pasture	Field layer	1
Aranaea	Money spider	<i>Gnathonarium dentatum</i>	21/09/2020	R72267058	Rush pasture	Field layer	2
Aranaea	Long-jawed spider	<i>Pachygnatha degeeri</i>	21/09/2020	R72267058	Rush pasture	Field layer	1
Aranaea	Long-jawed spider	<i>Pachygnatha clercki</i>	21/09/2020	R72267058	Rush pasture	Field layer	1
Caudata	Smooth Newt	<i>Lissotriton vulgaris</i>	22/09/2020	R72067062	Rush pasture	Drainage ditch	Several
Coleoptera	Water beetle	<i>Colymbetes fuscus</i>	22/09/2020	R72337037	Rush pasture	Water filled ruts	1
Coleoptera	Water beetle	<i>Agabus bipustulatus</i>	22/09/2020	R72337037	Rush pasture	Water filled ruts	7
Coleoptera	Water beetle	<i>Helophorus grandis</i>	22/09/2020	R72337037	Rush pasture	Water filled ruts	2
Coleoptera	Water beetle	<i>Hydroporus tessellatus</i>	22/09/2020	R72337037	Rush pasture	Water filled ruts	1
Coleoptera	Water beetle	<i>Hydroporus pubescens</i>	22/09/2020	R72337037	Rush pasture	Water filled ruts	1
Coleoptera	Water beetle	<i>Agabus bipustulatus</i>	22/09/2020	R72067062	Rush pasture	Muddy pool	2
Coleoptera	Water beetle	<i>Halipplus lineatocollis</i>	22/09/2020	R72067062	Rush pasture	Muddy pool	3
Coleoptera	Water beetle	<i>Helophorus grandis</i>	22/09/2020	R72067062	Rush pasture	Muddy pool	1
Coleoptera	Water beetle	<i>Hydroporus pubescens</i>	22/09/2020	R72067062	Rush pasture	Muddy pool	1
Coleoptera	Whirligig beetle	<i>Gyrinus substriatus</i>	22/09/2020	R72067062	Rush pasture	Muddy pool	1
Coleoptera	Rove beetle	<i>Stenus juno</i>	21/09/2020	R72287061	Rush pasture	Around farm buildings	1
Coleoptera	Rove beetle	<i>Lathrobium geminum</i>	21/09/2020	R72287061	Rush pasture	Around farm buildings	1
Coleoptera	Carabid beetle	<i>Agonum thoreyi</i>	21/09/2020	R72437033	Rush pasture	Under bark of dead hedgerow elm	1

Group	Common name	Latin name	Date	Location	Habitat	Niche	Abundance
Coleoptera	Rove beetle	<i>Anotylus rugosus</i>	22/09/2020	R722703	Rush pasture	Dead wood in hedgerow	1
Coleoptera	Carabid beetle	<i>Bradycellus sharpi</i>	22/09/2020	R722703	Rush pasture	Dead wood in hedgerow	1
Coleoptera	Leaf beetle	<i>Hydrothassa marginata</i>	22/09/2020	R271705	Rush pasture	Field layer	1
Coleoptera	Rove beetle	<i>Stenus cindeloides</i>	22/09/2020	R271705	Rush pasture	Field layer	3
Coleoptera	Rove beetle	<i>Stenus fulvicornis</i>	22/09/2020	R271705	Rush pasture	Field layer	1
Coleoptera	Rove beetle	<i>Stenus fulvicornis</i>	21/09/2020	R722703	Rush pasture	In moss and rushes	1
Coleoptera	Carabid beetle	<i>Pterostichus strenuus</i>	21/09/2020	R722703	Rush pasture	In moss and rushes	2
Coleoptera	Carabid beetle	<i>Pterostichus diligens</i>	21/09/2020	R722703	Rush pasture	In moss and rushes	2
Coleoptera	Rove beetle	<i>Lathrobium terminatum</i>	21/09/2020	R722703	Rush pasture	In moss and rushes	1
Coleoptera	Rove beetle	<i>Philonthus carbonarius</i>	21/09/2020	R722703	Rush pasture	In moss and rushes	2
Coleoptera	Rove beetle	<i>Philonthus cognatus</i>	21/09/2020	R722703	Rush pasture	In moss and rushes	2
Coleoptera	Rove beetle	<i>Stenus cindeloides</i>	22/09/2020	R721705	Rush pasture	Field layer	1
Coleoptera	Leaf beetle	<i>Neocrepidodera transversa</i>	22/09/2020	R721705	Rush pasture	Field layer	1
Coleoptera	Rove beetle	<i>Stenus fulvicornis</i>	21/09/2020	R723703	Rush pasture	Field layer	1
Coleoptera	Rove beetle	<i>Ocyopus aenaeocephalus</i>	21/09/2020	R723703	Rush pasture	Field layer	2
Coleoptera	Rove beetle	<i>Rugilus erichsonii</i>	21/09/2020	R72267058	Rush pasture	Field layer	1
Coleoptera	Rove beetle	<i>Stenus junco</i>	21/09/2020	R72267058	Rush pasture	Field layer	1
Coleoptera	Rove beetle	<i>Stenus cindeloides</i>	21/09/2020	R72267058	Rush pasture	Field layer	1
Coleoptera	Rove beetle	<i>Stenus fulvicornis</i>	21/09/2020	R72267058	Rush pasture	Field layer	1
Coleoptera	Rove beetle	<i>Xantholinus longiventris</i>	21/09/2020	R72267058	Rush pasture	Field layer	1
Coleoptera	Water beetle	<i>Helophorus brevivalpis</i>	21/09/2020	R72267058	Rush pasture	Field layer	1
Coleoptera	Carabid beetle	<i>Agonum fuliginosum</i>	21/09/2020	R72267058	Rush pasture	Field layer	1
Coleoptera	A rove beetle	<i>Amischa analis</i>	21/09/2020	R72267058	Rush pasture	Tussocks in rush pasture	1
Coleoptera	A ground beetle	<i>Bembidion mannerheimii</i>	21/09/2020	R72267058	Rush pasture	Tussocks in rush pasture	7
Coleoptera	A ground beetle	<i>Bradycellus sharpi</i>	21/09/2020	R723703	Hedgerow, field layer	Dead wood.	1
Coleoptera	A rove beetle	<i>Gabrius</i> sp.	21/09/2020	R723703	Hedgerow, field layer	Dead wood.	1f
Coleoptera	A rove beetle	<i>Geostiba circellaris</i>	21/09/2020	R72267058	Rush pasture	Tussocks in rush pasture	9
Coleoptera	A rove beetle	<i>Geostiba circellaris</i>	21/09/2020	R723703	Hedgerow, field layer	Dead wood.	5
Coleoptera	Helophorus beetle	<i>Helophorus brevivalpis</i>	21/09/2020	R723703	Parteen lower meadow	Dead wood.	1
Coleoptera	A longnose weevil	<i>Leiosoma deflexum</i>	21/09/2020	R723703	Hedgerow, field layer	Dead wood.	1
Coleoptera	A rove beetle	<i>Lesteva sicula</i>	21/09/2020	R72267058	Rush pasture	Tussocks in rush pasture	1
Coleoptera	A rove beetle	<i>Liosoma deflexum</i>	21/09/2020	R72267058	Rush pasture	Tussocks in rush pasture	1
Coleoptera	Water scavenger beetle	<i>Megasternum concinnum</i>	21/09/2020	R723703	Rush pasture in lower meadow	Moss/rush tussocks	1
Coleoptera	Water scavenger beetle	<i>Megasternum concinnum</i>	21/09/2020	R72297042	Parteen lower meadow	Tapped from gorse	1
Coleoptera	A rove beetle	<i>Mocyta fungi</i>	21/09/2020	R72267058	Parteen water ttment.	Tussocks in rush pasture	1
Coleoptera	A rove beetle	<i>Mocyta fungi</i>	21/09/2020	R723703	Hedgerow, field layer	Dead wood.	8
Coleoptera	Rayed glass snail	<i>Nesovitrea hammonis</i>	21/09/2020	R723703	Hedgerow, field layer	Dead wood.	1
Coleoptera	A ground beetle	<i>Ocys tachysoides</i>	21/09/2020	R70057018	Rush pasture	Red rot on pine.	1
Coleoptera	A ground beetle	<i>Ocys tachysoides</i>	21/09/2020	R72437033	Rush pasture	Under bark of fallen elm.	1
Coleoptera	A rove beetle	<i>Olophrum piceum</i>	21/09/2020	R723703	Hedgerow, field layer	Dead wood.	3
Coleoptera	Leaf beetle	<i>Oulema obscura</i>	21/09/2020	R723703	Hedgerow, field layer	Dead wood.	1
Coleoptera	Cellar snail	<i>Oxychilus cellarius</i>	21/09/2020	R723703	Hedgerow, field layer	Dead wood.	1 dead
Coleoptera	A ground beetle	<i>Pterostichus diligens</i>	21/09/2020	R72267058	Rush pasture	Tussocks in rush pasture	1

Group	Common name	Latin name	Date	Location	Habitat	Niche	Abundance
Coleoptera	A rove beetle	<i>Reichenbachia juncorum</i>	21/09/2020	R72267058	Rush pasture	Tussocks in rush pasture	1
Coleoptera	A ladybird	<i>Rhizobius litura</i>	21/09/2020	R72267058	Rush pasture	Tussocks in rush pasture	1
Coleoptera	A rove beetle	<i>Rugilus rufipes</i>	21/09/2020	R723703	Hedgerow, field layer	Dead wood.	1
Coleoptera	A rove beetle	<i>Sepedophilus nigripennis</i>	21/09/2020	R723703	Rush pasture in lower meadow	Moss/rush tussocks	1
Coleoptera	A rove beetle	<i>Sepedophilus nigripennis</i>	21/09/2020	R72267058	Rush pasture	Tussocks in rush pasture	1
Coleoptera	A rove beetle	<i>Sepedophilus nigripennis</i>	21/09/2020	R723703	Hedgerow, field layer	Dead wood.	1
Coleoptera	A rove beetle	<i>Stenus juno</i>	21/09/2020	R72267058	Rush pasture	Tussocks in rush pasture	1m
Coleoptera	A rove beetle	<i>Stenus nanus</i>	21/09/2020	R723703	Rush pasture in lower meadow	Moss/rush tussocks	1m
Coleoptera	A rove beetle	<i>Tachinus signatus</i>	21/09/2020	R72267058	Rush pasture	Tussocks in rush pasture	1
Coleoptera	A rove beetle	<i>Tachinus signatus</i>	21/09/2020	R723703	Hedgerow, field layer	Dead wood.	1
Coleoptera	A rove beetle	<i>Tachyporus dispar</i>	21/09/2020	R72267058	Rush pasture	Tussocks in rush pasture	2
Coleoptera	A rove beetle	<i>Tachyporus nitidulus</i>	21/09/2020	R72267058	Rush pasture	Tussocks in rush pasture	1
Diptera	Hoverfly	<i>Rhingia campestris</i>	21/09/2020	R721705	Rush pasture		1
Diptera	The footballer	<i>Helophilus pendulus</i>	21/09/2020	R72477049	Rush pasture		Several
Diptera	Hoverfly	<i>Melanostoma scalare</i>	21/09/2020	R72477049	Rush pasture		Several
Isopoda	Woodlouse	<i>Oniscus asellus</i>	21/09/2020	R72287061	Rush pasture	Around farm buildings	1
Isopoda	Woodlouse	<i>Oniscus asellus</i>	22/09/2020	R722703	Rush pasture	Dead wood in hedgerow	1
Isopoda	Woodlouse	<i>Andronicus dentiger</i>	22/09/2020	R722703	Rush pasture	Dead wood in hedgerow	1
Isopoda	Woodlouse	<i>Oniscus asellus</i>	21/09/2020	R72267058	Rush pasture	Field layer	1
Isopoda	A woodlouse	<i>Porcellionides cingendus</i>	21/09/2020	R72327059	Around farm buildings	Hand search.	1
Lepidoptera	Green-veined white	<i>Pieris napi</i>	21/09/2020	R721705	Rush pasture		Several
Mollusca	Rounded snail	<i>Discus rotundatus</i>	21/09/2020	R72287061	Rush pasture	Around farm buildings	1
Mollusca	Door snail	<i>Clausilia bidentata</i>	21/09/2020	R72287061	Rush pasture	Around farm buildings	1
Mollusca	White-lipped ramshorn	<i>Anisus leucostoma</i>	21/09/2020	R72067062	Meadow	In muddy pool.	2
Mollusca	Tree snail	<i>Balea heydeni</i>	21/09/2020	R72437033	Meadow	Under bark of fallen elm.	1
Mollusca	Door snail	<i>Clausilia bidentata</i>	21/09/2020	R72437033	Meadow	Under bark of fallen elm.	5
Mollusca	Slippery moss snail	<i>Cochlicopa lubrica</i>	21/09/2020	R723703	Rush pasture in lower meadow	Moss/rush tussocks	1
Mollusca	Slippery moss snail	<i>Cochlicopa lubrica</i>	21/09/2020	R72267058	Rush pasture	Tussocks in rush pasture	1
Mollusca	Slippery moss snail	<i>Cochlicopa lubrica</i>	21/09/2020	R72297042	Hedgerow	Tapped from gorse	1
Mollusca	Rounded snail	<i>Discus rotundatus</i>	21/09/2020	R72327059	Around farm buildings	Hand search.	2
Mollusca	Common chrysalis snail	<i>Lauria cylindracea</i>	21/09/2020	R72327059	Around farm buildings	Hand search.	2
Mollusca	Cellar snail	<i>Oxychilus cellarius</i>	21/09/2020	R72327059	Around farm buildings	Hand search.	8
Mollusca	Small amber snail	<i>Oxyloma elegans</i>	21/09/2020	R723703	Rush pasture in lower meadow	Moss/rush tussocks	2
Mollusca	Small amber snail	<i>Oxyloma elegans</i>	21/09/2020	R72267058	Rush pasture	Tussocks in rush pasture	1
Mollusca	Small amber snail	<i>Oxyloma elegans</i>	21/09/2020	R72437033	Rush pasture	Under bark of fallen elm.	1
Mollusca	Marsh snail	<i>Stagnicola fuscus</i>	21/09/2020	R72067062	Rush pasture	In muddy pool.	2
Mollusca	Green-soled slug	<i>Arion flagellus</i>	21/09/2020		Rush pasture	Field layer	1
Mollusca	Iberian 3-banded slug	<i>Ambigolimax valentianus</i>	21/09/2020		Rush pasture	Field layer	1
Mollusca	Netted field slug	<i>Deroceras reticulatum</i>	21/09/2020		Rush pasture	Field layer	1
Mollusca	Tramp slug	<i>Deroceras invadens</i>	21/09/2020		Rush pasture	Field layer	1
Mollusca	Hedgehog slug	<i>Arion intermedius</i>	21/09/2020		Rush pasture	Field layer	1

Annex 2 – species list from the 2021 survey

Group	Common name	Latin name	Date	Location	Habitat	Niche	Method	Abundance
Lepidoptera	Meadow brown	<i>Maniola jurtina</i>	01/07/2021	R720726	Rush pasture	Meadow	Field observation	1
Lepidoptera	Green veined white	<i>Pieris napi</i>	01/07/2021	R720726	Rush pasture	Meadow	Field observation	1
Lepidoptera	Ringlet	<i>Aphantopus hyperantus</i>	01/07/2021	R720726	Rush pasture	Meadow	Field observation	1
Lepidoptera	Speckled wood	<i>Pararge aegeria</i>	01/07/2021	R720726	Rush pasture	Meadow	Field observation	1
Lepidoptera	Small white	<i>Pieris rapae</i>	17/08/2021	R723705	Rush pasture	Hedgerow	Field observation	1
Lepidoptera	Small tortoiseshell	<i>Aglais urticae</i>	17/08/2021	R723705	Rush pasture	Hedgerow	Field observation	1
Diptera	Hoverfly	<i>Platycheirus rosarum</i>	01/07/2021	R723703	Rush pasture	Field layer		1
Diptera	Soldierfly	<i>Chloromyia formosa</i>	01/07/2021	R723703	Rush pasture	Field layer	Sweep net	1
Diptera	Soldierfly	<i>Chloromyia formosa</i>	01/07/2021	R720726	Rush pasture	Field layer	Sweep net	4
Diptera	Hoverfly	<i>Cheilosia illustrata</i>	02/07/2021	R720726	Rush pasture	Field layer	Sweep net	1
Diptera	Hoverfly	<i>Platycheirus granditarsus</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	1
Diptera	Hoverfly	<i>Platycheirus granditarsus</i>	01/07/2021	R720726	Rush pasture	Field layer	Sweep net	4
Diptera	Hoverfly	<i>Platycheirus albimanus</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	1
Diptera	Hoverfly	<i>Platycheirus albimanus</i>	01/07/2021	R720726	Rush pasture	Field layer	Sweep net	1
Diptera	Hoverfly	<i>Platycheirus granditarsus</i>	02/07/2021	R720706	Rush pasture	Field layer	Sweep net	1
Diptera	Hoverfly	<i>Platycheirus albimanus</i>	02/07/2021	R720706	Rush pasture	Field layer	Sweep net	2
Diptera	Hoverfly	<i>Rhingia campestris</i>	01/07/2021	R720726	Rush pasture	Field layer	Sweep net	2
Diptera	Chironomid midge	<i>Stilobezzia gracilis</i>	01/07/2021	R723703	Hedgerow	Field layer	Sweep net	1
Diptera	Soldierfly	<i>Beris vallata</i>	01/07/2021	R723703	Hedgerow	Field layer	Tapped	1
Diptera	Notch-horned cleg	<i>Haematopota pluvialis</i>	01/07/2021	R723703	Hedgerow	Field layer	Tapped	1
Diptera	Long-legged fly	<i>Chrysotus gramineus</i>	01/07/2021	R723703	Hedgerow	Field layer	Tapped	1
Diptera	Long-legged fly	<i>Dolichopus phaeopus</i>	01/07/2021	R723703	Hedgerow	Field layer	Tapped	1
Diptera	Long-legged fly	<i>Dolichopus plumipes</i>	01/07/2021	R723703	Hedgerow	Field layer	Tapped	1
Diptera	Hoverfly	<i>Platycheirus albimanus</i>	01/07/2021	R723703	Hedgerow	Field layer	Tapped	1
Diptera	Sepsid fly	<i>Themira annulipes</i>	01/07/2021	R723703	Hedgerow	Field layer	Tapped	1
Diptera	Agromyzid fly	<i>Cerodontha capitata</i>	01/07/2021	R723703	Hedgerow	Field layer	Tapped	1
Diptera	Yellow dung fly	<i>Scathophaga stercoraria</i>	01/07/2021	R723703	Hedgerow	Field layer	Tapped	2
Diptera	Anthomyiid fly	<i>Pegoplata infirma</i>	01/07/2021	R723703	Hedgerow	Field layer	Tapped	1
Diptera	Black snipefly	<i>Chrysopilus cristatus</i>	01/07/2021	R720706	Rush pasture	Field layer	Tapped	2
Diptera	Notch-horned cleg	<i>Haematopota pluvialis</i>	01/07/2021	R720706	Rush pasture	Field layer	Sweep net	1
Diptera	Empid fly	<i>Bicellaria vana</i>	01/07/2021	R720706	Rush pasture	Field layer	Sweep net	Several
Diptera	Empid fly	<i>Empis livida</i>	01/07/2021	R720706	Rush pasture	Field layer	Sweep net	3
Diptera	Long-legged fly	<i>Chrysotus gramineus</i>	01/07/2021	R720706	Rush pasture	Field layer	Sweep net	1
Diptera	Long-legged fly	<i>Dolichopus plumipes</i>	01/07/2021	R720706	Rush pasture	Field layer	Sweep net	1
Diptera	Hoverfly	<i>Eristalis abusiva</i>	01/07/2021	R720706	Rush pasture	Field layer	Sweep net	1

Group	Common name	Latin name	Date	Location	Habitat	Niche	Method	Abundance
Diptera	Hoverfly	<i>Helophilus pendulus</i>	01/07/2021	R720706	Rush pasture	Field layer	Sweep net	1
Diptera	Hoverfly	<i>Platycheirus albimanus</i>	01/07/2021	R720706	Rush pasture	Field layer	Sweep net	14
Diptera	Hoverfly	<i>Platycheirus clypeatus</i>	01/07/2021	R720706	Rush pasture	Field layer	Sweep net	5
Diptera	Hoverfly	<i>Syrphus ribesii</i>	01/07/2021	R720706	Rush pasture	Field layer	Sweep net	1
Diptera	Snail-killing fly	<i>Pherbina coryleti</i>	01/07/2021	R720706	Rush pasture	Field layer	Sweep net	1
Diptera	Snail-killing fly	<i>Tetanocera ferruginea</i>	01/07/2021	R720706	Rush pasture	Field layer	Sweep net	1
Diptera	Sepsid fly	<i>Sepsis cynipsea</i>	01/07/2021	R720706	Rush pasture	Field layer	Sweep net	2
Diptera	Yellow dung fly	<i>Scathophaga stercoraria</i>	01/07/2021	R720706	Rush pasture	Field layer	Sweep net	9
Diptera	Anthomyiid fly	<i>Pegoplata aestiva</i>	01/07/2021	R720706	Rush pasture	Field layer	Sweep net	1
Diptera	Muscid fly	<i>Phaonia incana</i>	01/07/2021	R720706	Rush pasture	Field layer	Sweep net	4
Diptera	Pale veined emerald bottle	<i>Bellardia vulgaris</i>	01/07/2021	R720706	Rush pasture	Field layer	Sweep net	1
Diptera	Notch-horned cleg	<i>Haematopota pluvialis</i>	01/07/2021	R723703	Rush pasture	Field layer	Sweep net	1
Diptera	Empid fly	<i>Bicellaria vana</i>	01/07/2021	R723703	Rush pasture	Field layer	Sweep net	1
Diptera	Long-legged fly	<i>Chrysotus gramineus</i>	01/07/2021	R723703	Rush pasture	Field layer	Sweep net	1
Diptera	Hoverfly	<i>Eristalis nemorum</i>	01/07/2021	R723703	Rush pasture	Field layer	Sweep net	1
Diptera	Hoverfly	<i>Helophilus pendulus</i>	01/07/2021	R723703	Rush pasture	Field layer	Sweep net	1
Diptera	Hoverfly	<i>Platycheirus albimanus</i>	01/07/2021	R723703	Rush pasture	Field layer	Sweep net	12
Diptera	Hoverfly	<i>Platycheirus clypeatus</i>	01/07/2021	R723703	Rush pasture	Field layer	Sweep net	7
Diptera	Hoverfly	<i>Platycheirus granditarsa</i>	01/07/2021	R723703	Rush pasture	Field layer	Sweep net	2
Diptera	Hoverfly	<i>Rhingia campestris</i>	01/07/2021	R723703	Rush pasture	Field layer	Sweep net	2
Diptera	Snail killing fly	<i>Pherbina coryleti</i>	01/07/2021	R723703	Rush pasture	Field layer	Sweep net	2
Diptera	Sepsid fly	<i>Sepsis violacea</i>	01/07/2021	R723703	Rush pasture	Field layer	Sweep net	1
Diptera	Yellow dung fly	<i>Scathophaga stercoraria</i>	01/07/2021	R723703	Rush pasture	Field layer	Sweep net	Several
Diptera	Anthomyiid fly	<i>Pegoplata aestiva</i>	01/07/2021	R723703	Rush pasture	Field layer	Sweep net	1
Diptera	Awkward clusterfly	<i>Pollenia rudis</i>	01/07/2021	R723703	Rush pasture	Field layer	Sweep net	1
Diptera	Crane fly	<i>Erioconopa trivialis</i>	02/07/2021	R720706	Rush pasture	Field layer	Sweep net	1
Diptera	Empid fly	<i>Bicellaria vana</i>	02/07/2021	R720706	Rush pasture	Field layer	Sweep net	1
Diptera	Empid fly	<i>Empis livida</i>	02/07/2021	R720706	Rush pasture	Field layer	Sweep net	2
Diptera	Long-legged fly	<i>Dolichopus phaeopus</i>	02/07/2021	R720706	Rush pasture	Field layer	Sweep net	4
Diptera	Long-legged fly	<i>Dolichopus plumipes</i>	02/07/2021	R720706	Rush pasture	Field layer	Sweep net	4
Diptera	Long-legged fly	<i>Dolichopus simplex</i>	02/07/2021	R720706	Rush pasture	Field layer	Sweep net	1
Diptera	Hoverfly	<i>Platycheirus albimanus</i>	02/07/2021	R720706	Rush pasture	Field layer	Sweep net	3
Diptera	Hoverfly	<i>Platycheirus clypeatus</i>	02/07/2021	R720706	Rush pasture	Field layer	Sweep net	3
Diptera	Sepsid fly	<i>Sepsis punctum</i>	02/07/2021	R720706	Rush pasture	Field layer	Sweep net	1
Diptera	Snail killing fly	<i>Pherbina coryleti</i>	02/07/2021	R720706	Rush pasture	Field layer	Sweep net	2
Diptera	Agromyzid fly	<i>Cerodontha biseta</i>	02/07/2021	R720706	Rush pasture	Field layer	Sweep net	1

Group	Common name	Latin name	Date	Location	Habitat	Niche	Method	Abundance
Diptera	Yellow dung fly	<i>Scathophaga stercoraria</i>	02/07/2021	R720706	Rush pasture	Field layer	Sweep net	Several
Diptera	Anthomyiid fly	<i>Botanophila striolata</i>	02/07/2021	R720706	Rush pasture	Field layer	Sweep net	1
Diptera	Anthomyiid fly	<i>Pegoplata aestiva</i>	02/07/2021	R720706	Rush pasture	Field layer	Sweep net	1
Diptera	Muscid fly	<i>Helina subvittata</i>	02/07/2021	R720706	Rush pasture	Field layer	Sweep net	4
Diptera	Head fly	<i>Hydrotaea irritans</i>	02/07/2021	R720706	Rush pasture	Field layer	Sweep net	1
Diptera	Muscid fly	<i>Phaonia incana</i>	02/07/2021	R720706	Rush pasture	Field layer	Sweep net	3
Diptera	Soldierfly	<i>Beris vallata</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	1
Diptera	Long-legged fly	<i>Chrysotus gramineus</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	1
Diptera	Long-legged fly	<i>Dolichopus phaeopus</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	3
Diptera	Long-legged fly	<i>Dolichopus plumipes</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	3
Diptera	Long-legged fly	<i>Dolichopus simplex</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	1
Diptera	Hoverfly	<i>Platycheirus albimanus</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	1
Diptera	Hoverfly	<i>Platycheirus clypeatus</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	3
Diptera	Tephritid fly	<i>Terellia ruficauda</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	1
Diptera	Opomyzid fly	<i>Opomyza germinationis</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	1
Diptera	Yellow dung fly	<i>Scathophaga stercoraria</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	10
Diptera	Anthomyiid fly	<i>Hylemya variata</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	1
Diptera	Anthomyiid fly	<i>Paregle audacula</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	2
Diptera	Anthomyiid fly	<i>Pegoplata aestiva</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	1
Diptera	Anthomyiid fly	<i>Pegoplata infirma</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	1
Diptera	Muscid fly	<i>Helina evecta</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	2
Diptera	Muscid fly	<i>Helina subvittata</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	1
Diptera	Muscid fly	<i>Phaonia incana</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	5
Diptera	Pale veined emerald bottle	<i>Bellardia vulgaris</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	1
Diptera	Fungus gnat	<i>Schwenckfeldina carbonaria</i>	17/08/2021	R720705	Rush pasture	Field layer	Sweep net	1
Diptera	Empid fly	<i>Bicellaria vana</i>	17/08/2021	R720705	Rush pasture	Field layer	Sweep net	1
Diptera	Common drone fly	<i>Eristalis tenax</i>	17/08/2021	R720705	Rush pasture	Field layer	Sweep net	1
Diptera	Hoverfly	<i>Helophilus pendulus</i>	17/08/2021	R720705	Rush pasture	Field layer	Sweep net	2
Diptera	Hoverfly	<i>Neoascia podagrica</i>	17/08/2021	R720705	Rush pasture	Field layer	Sweep net	1
Diptera	Hoverfly	<i>Platycheirus albimanus</i>	17/08/2021	R720705	Rush pasture	Field layer	Sweep net	3
Diptera	Hoverfly	<i>Platycheirus granditarsus</i>	17/08/2021	R720705	Rush pasture	Field layer	Sweep net	2
Diptera	Hoverfly	<i>Sphaerophoria scripta</i>	17/08/2021	R720705	Rush pasture	Field layer	Sweep net	1
Diptera	Snail killing fly	<i>Pherbina coryleti</i>	17/08/2021	R720705	Rush pasture	Field layer	Sweep net	1
Diptera	Snail killing fly	<i>Tetanocera ferruginea</i>	17/08/2021	R720705	Rush pasture	Field layer	Sweep net	2
Diptera	Opomyzid fly	<i>Opomyza germinationis</i>	17/08/2021	R720705	Rush pasture	Field layer	Sweep net	1
Diptera	Yellow dung fly	<i>Scathophaga stercoraria</i>	17/08/2021	R720705	Rush pasture	Field layer	Sweep net	Several

Group	Common name	Latin name	Date	Location	Habitat	Niche	Method	Abundance
Diptera	Muscid fly	<i>Phaonia angelicae</i>	17/08/2021	R720705	Rush pasture	Field layer	Sweep net	1
Diptera	Pale veined emerald bottle	<i>Bellardia vulgaris</i>	17/08/2021	R720705	Rush pasture	Field layer	Sweep net	6
Diptera	Awkward clusterfly	<i>Pollenia rudis</i>	17/08/2021	R720705	Rush pasture	Field layer	Sweep net	Several
Diptera	Hoverfly	<i>Lejogaster metallina</i>	17/08/2021	R719706	Rush pasture	Field layer	Sweep net	1
Diptera	Hoverfly	<i>Melanostoma scalare</i>	17/08/2021	R719706	Rush pasture	Field layer	Sweep net	1
Diptera	Hoverfly	<i>Platycheirus granditarsa</i>	17/08/2021	R719706	Rush pasture	Field layer	Sweep net	1
Diptera	Snail-killing fly	<i>Tetanocera ferruginea</i>	17/08/2021	R719706	Rush pasture	Field layer	Sweep net	1
Diptera	Yellow dung fly	<i>Scathophaga stercoraria</i>	17/08/2021	R719706	Rush pasture	Field layer	Sweep net	Several
Diptera	Muscid fly	<i>Coenosia tigrina</i>	17/08/2021	R719706	Rush pasture	Field layer	Sweep net	1
Diptera	Pale veined emerald bottle	<i>Bellardia vulgaris</i>	17/08/2021	R719706	Rush pasture	Field layer	Sweep net	Several
Diptera	Awkward clusterfly	<i>Pollenia rudis</i>	17/08/2021	R719706	Rush pasture	Field layer	Sweep net	Several
Diptera	Crane fly	<i>Dicranomyia chorea</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Sweep net	1
Diptera	Crane fly	<i>Rhipidia maculata</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Fever fly	<i>Dilophus febrilis</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Fungus gnat	<i>Coelosia tenella</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Fungus gnat	<i>Schwenckfeldina carbonaria</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	Several
Diptera	Scatopsid fly	<i>Scatopse notata</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	2
Diptera	Anisopodid fly	<i>Sylvicola punctatus</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	Numerous
Diptera	Mosquito	<i>Culiseta annulata</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Down-looking snipefly	<i>Rhagio scolopaceus</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Soldierfly	<i>Beris fuscipes</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Empid fly	<i>Empis grisea</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	2
Diptera	Long-legged fly	<i>Dolichopus plumipes</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	Several
Diptera	Phorid fly	<i>Diplonevra florescens</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	2
Diptera	Hoverfly	<i>Ferdinandea cuprea</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	2
Diptera	Hoverfly	<i>Riponnensia splendens</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	2
Diptera	Tephritid fly	<i>Seioptera vibrans</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Tephritid fly	<i>Lonchaea chorea</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	16
Diptera	Tephritid fly	<i>Palloptera umbellatarum</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	2
Diptera	Lauxaniid fly	<i>Meiosimyza rorida</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Lauxaniid fly	<i>Minettia inusta</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Dryomyzid fly	<i>Dryomyza anilis</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	Numerous
Diptera	Heleomyzid fly	<i>Heteromyza rotundicornis</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	6
Diptera	Heleomyzid fly	<i>Tephrochlamys rufiventris</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Fruit fly	<i>Drosophila funebris</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1

Group	Common name	Latin name	Date	Location	Habitat	Niche	Method	Abundance
Diptera	Fruit fly	<i>Drosophila subobscura</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Fruit fly	<i>Drosophila tristis</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	Several
Diptera	Scathophagid fly	<i>Scathophaga inquinata</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	Several
Diptera	Scathophagid fly	<i>Scathophaga spurca</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	Several
Diptera	Yellow dung fly	<i>Scathophaga stercoraria</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	Several
Diptera	Anthomyiid fly	<i>Hydrophoria ruralis</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	2
Diptera	Anthomyiid fly	<i>Hylemya nigrimana</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Anthomyiid fly	<i>Hylemya vagans</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	Several
Diptera	Anthomyiid fly	<i>Lasiomma seminitidum</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Anthomyiid fly	<i>Pegomya bicolor</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Anthomyiid fly	<i>Pegomya solennis</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Lesser house fly	<i>Fannia canicularis</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	2
Diptera	Fanniid fly	<i>Fannia serena</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Muscid fly	<i>Azelia cilipes</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Muscid fly	<i>Azelia nebulosa</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	3
Diptera	Muscid fly	<i>Eudasyphora cyanella</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	2
Diptera	Muscid fly	<i>Hebecnema nigra</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Muscid fly	<i>Hebecnema vespertina</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	2
Diptera	Muscid fly	<i>Helina depuncta</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	Several
Diptera	Muscid fly	<i>Helina evecta</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Muscid fly	<i>Helina impuncta</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Cranefly	<i>Limnophora tigrina</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Noon fly	<i>Mesembrina meridiana</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Muscid fly	<i>Muscina levida</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	Several
Diptera	Muscid fly	<i>Phaonia errans</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	Several
Diptera	Muscid fly	<i>Phaonia pallida</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	Numerous
Diptera	Muscid fly	<i>Phaonia palpata</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	2
Diptera	Muscid fly	<i>Phaonia rufiventris</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	Several
Diptera	Muscid fly	<i>Phaonia subventa</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	Several
Diptera	Muscid fly	<i>Polietes lardarius</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	Several
Diptera	Common greenbottle	<i>Lucilia illustris</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Awkward clusterfly	<i>Pollenia rudis</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Scathophagid fly	<i>Sarcophaga vagans</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Scathophagid fly	<i>Sarcophaga variegata</i>	17/08/2021	R723706	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Cranefly	<i>Dicranomyia modesta</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Upper FITs	1
Diptera	Cranefly	<i>Erioptera lutea</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Cranefly	<i>Limonia nubeculosa</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	2

Group	Common name	Latin name	Date	Location	Habitat	Niche	Method	Abundance
Diptera	Crane fly	<i>Rhipidia maculata</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Fever fly	<i>Dilophus febrilis</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Crane fly	<i>Macrocera stigmoides</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Fungus gnat	<i>Exechia seriata</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Owl midge	<i>Boreoclytocyclus ocellaris</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Owl midge	<i>Pericoma trivialis</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Mosquito	<i>Culiseta annulata</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Wood gnat	<i>Sylvicola punctatus</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	Several
Diptera	Soldierfly	<i>Beris fuscipes</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Long-legged fly	<i>Chrysotus gramineus</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	Several
Diptera	Hoverfly	<i>Ferdinandea cuprea</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Hoverfly	<i>Melanostoma scalare</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Hoverfly	<i>Scaeva selenitica</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Lauxaniid fly	<i>Meiosimyza decempunctata</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	3
Diptera	Lauxaniid fly	<i>Meiosimyza rorida</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Lauxaniid fly	<i>Minettia fasciata</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Lauxaniid fly	<i>Sapromyza albiceps</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Dromyzid fly	<i>Dryomyza anilis</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	Numerous
Diptera	Heleomyzid fly	<i>Heteromyza rotundicornis</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	2
Diptera	Heleomyzid fly	<i>Tephrochlamys rufiventris</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Fruit fly	<i>Drosophila littoralis</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Fruit fly	<i>Drosophila subobscura</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	Several
Diptera	Scathophagid fly	<i>Scathophaga inquinata</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	Several
Diptera	Scathophagid fly	<i>Scathophaga stercoraria</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	Several
Diptera	Anthomyid fly	<i>Hydrophoria ruralis</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	2
Diptera	Anthomyid fly	<i>Hylemya nigrimana</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	Several
Diptera	Anthomyid fly	<i>Hylemya vagans</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	Several
Diptera	Anthomyid fly	<i>Paradelia intersecta</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Fanniid fly	<i>Piezura pardalina</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Muscid fly	<i>Eudasyphora cyanella</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Muscid fly	<i>Hebecnema nigra</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	2
Diptera	Muscid fly	<i>Hebecnema vespertina</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Muscid fly	<i>Helina impuncta</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	Several
Diptera	Muscid fly	<i>Helina lasiophthalma</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Muscid fly	<i>Helina reversio</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	Several
Diptera	Muscid fly	<i>Morellia hortorum</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Muscid fly	<i>Muscina levida</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	Several

Group	Common name	Latin name	Date	Location	Habitat	Niche	Method	Abundance
Diptera	Muscid fly	<i>Phaonia angelicae</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	2
Diptera	Muscid fly	<i>Phaonia pallida</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Muscid fly	<i>Phaonia palpata</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Muscid fly	<i>Phaonia subventa</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	Several
Diptera	Muscid fly	<i>Phaonia tuguriorum</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Muscid fly	<i>Polietes lardarius</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	Several
Diptera	Muscid fly	<i>Thricops semicinereus</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Muscid fly	<i>Bellardia vulgaris</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	2
Diptera	Common bluebottle	<i>Calliphora vicina</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	2
Diptera	Awkward clusterfly	<i>Pollenia rudis</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	Several
Diptera	Smoky-winged woodlouse fly	<i>Melanophora roralis</i>	18/08/2021	R723704	Rush pasture	Tree canopy	Lower FITs	1
Diptera	Crane fly	<i>Tricyphona immaculata</i>	22/09/2021	R721705	Rush pasture	Field layer	Lower FITs	9
Diptera	Crane fly	<i>Erioconopa diuturna</i>	22/09/2021	R721705	Rush pasture	Field layer	Sweep net	1
Diptera	Crane fly	<i>Erioconopa trivialis</i>	22/09/2021	R721705	Rush pasture	Field layer	Sweep net	1
Diptera	Hoverfly	<i>Helophilus pendulus</i>	22/09/2021	R721705	Rush pasture	Field layer	Sweep net	1
Diptera	Broad centurion	<i>Chloromyia formosa</i>	01/07/2021	R720726	Rush pasture	Field layer	Sweep net	2
Odonata	Common blue damselfly	<i>Enallagma cyathigerum</i>	01/07/2021	R721705	Rush pasture		Sweep net	1
Hymenoptera	Bumblebee	<i>Bombus lucorum agg</i>	01/07/2021	R720726	Rush pasture	Field layer	Field observation	1
Hymenoptera	Common red ant	<i>Myrmica ruginodis</i>	18/08/2021	R720705	Hedgerow	Ground layer	Sweep net	1
Orthoptera	Common green grasshopper	<i>Omocestus viridulus</i>	02/07/2021	R721705	Rush pasture	Field layer	Pitfall trap lower	1
Mollusca	Slug	<i>Arion distinctus</i>	18/08/2021	R720705	Rush pasture	Ground layer	Field observation	2
Mollusca	Slug	<i>Deroceras reticulatum</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap lower	3
Mollusca	Cellar snail	<i>Oxychilus cellarius</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap lower	1
Mollusca	Door snail	<i>Balea heydeni</i>	17/08/2021	R720726	Rush pasture	Intact hedge	Pitfall trap lower	2
Mollusca	Pfeiffer's Amber Snail	<i>Oxyloma elegans</i>	17/08/2021	R720726	Rush pasture	Intact hedge	Sweep net	1
Mollusca	Large Amber Snail	<i>Succinea putris</i>	17/08/2021	R720726	Rush pasture	Meadow	Sweep net	1
Mollusca	White-lipped Ramshorn	<i>Anisus leucostoma</i>	02/07/2021	R720706	Hedgerow	Moss/grass. Ground layer	Sweep net	2
Mollusca	Pea clam	<i>Pisidium personatum</i>	02/07/2021	R720706	Hedgerow	Moss/grass. Ground layer	Sorting moss	1
Mollusca	Door snail	<i>Clausilia bidentata</i>	17/08/2021	R72277060	Hedgerow	Dead wood	Sorting moss	2
Coleoptera	7-spot ladybird	<i>Coccinella septempunctata</i>	01/07/2021	R720726	Meadow	Field layer	Sorting dead wood	1
Coleoptera	Rove beetle	<i>Stenus fulvicornis</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	1
Coleoptera	Ground beetle	<i>Trechus fulvus</i>	18/08/2021	R720705	Rush pasture	Field layer	Sweep net	1

Group	Common name	Latin name	Date	Location	Habitat	Niche	Method	Abundance
Coleoptera	7-spot ladybird	<i>Coccinella septempunctata</i>	17/08/2021	R720705	Meadow	Field layer	Pitfall trap	1
Coleoptera	Gorse weevil	<i>Exapion ulicis</i>	01/07/2021	R720726	Hedgerow	Gorse	Sweep net	2
Coleoptera	Tenebrionid beetle	<i>Lagria hirta</i>	01/07/2021	R720726	Hedgerow	Gorse	Tapped off hedgerow	1
Coleoptera	Weevil	<i>Ceratapion carduorum</i>	01/07/2021	R720726	Hedgerow	Gorse	Tapped off hedgerow	3
Coleoptera	Rove beetle	<i>Stenus flavipes</i>	01/07/2021	R720726	Hedgerow	Gorse	Tapped off hedgerow	1
Coleoptera	Fungus beetle	<i>Micrambe ulicis</i>	01/07/2021	R720726	Hedgerow	Gorse	Tapped off hedgerow	1
Coleoptera	Soldier beetle	<i>Cantharis flavilabris</i>	01/07/2021	R723703	Rush pasture	Field layer	Tapped off hedgerow	5
Coleoptera	Short-winged flower beetle	<i>Kateretes rufilabris</i>	01/07/2021	R723703	Rush pasture	Field layer	Sweep net	1
Coleoptera	Soldier beetle	<i>Cantharis nigra</i>	01/07/2021	R720726	Rush pasture	Meadow grasses	Sweep net	4
Coleoptera	Soldier beetle	<i>Cantharis pallida</i>	01/07/2021	R720726	Rush pasture	Meadow grasses	Sweep net	2
Coleoptera	7-spot ladybird	<i>Coccinella septempunctata</i>	01/07/2021	R720726	Rush pasture	Meadow grasses	Sweep net	1
Coleoptera	Ground beetle	<i>Amara communis</i>	18/08/2021	R720705	Rush pasture	Ground layer	Sweep net	1
Coleoptera	Water beetle	<i>Anacaena globulus</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap	2
Coleoptera	Hairy spider weevil	<i>Exomias pellucidus</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap	1
Coleoptera	Ground beetle	<i>Bembidion mannerheimii</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap	1
Coleoptera	Ground beetle	<i>Bembidion mannerheimii</i>	18/08/2021	R721706	Rush pasture	Ground layer	Pitfall trap	1
Coleoptera	Rove beetle	<i>Habrocerus capillaricornis</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap	1
Coleoptera	Water beetle	<i>Helophorus brevipalpis</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap	2
Coleoptera	Water beetle	<i>Megasternum obscurum</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap	6
Coleoptera	Rove beetle	<i>Ocyopus aeneocephalus</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap	3
Coleoptera	Rove beetle	<i>Philonthus cognatus</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap	3
Coleoptera	Ground beetle	<i>Pterostichus minor</i>	18/08/2021	R721706	Rush pasture	Ground layer	Pitfall trap	3
Coleoptera	Ground beetle	<i>Pterostichus strenuus</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap	4
Coleoptera	Rove beetle	<i>Quedius fuliginosus</i>	18/08/2021	R721706	Rush pasture	Ground layer	Pitfall trap	1
Coleoptera	Rove beetle	<i>Quedius maurorufus</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap	1
Coleoptera	Rove beetle	<i>Quedius molochinus</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap	1
Coleoptera	Rove beetle	<i>Stenus brunripes</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap	1
Coleoptera	Rove beetle	<i>Stenus clavicornis</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap	3
Coleoptera	Rove beetle	<i>Stenus juno</i>	18/08/2021	R721706	Rush pasture	Ground layer	Pitfall trap	1
Coleoptera	Leaf beetle	<i>Tachyporus chrysomelinus</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap	1
Coleoptera	Ground beetle	<i>Trechus obtusus</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap	1
Coleoptera	Rove beetle	<i>Xantholinus longiventris</i>	18/08/2021	R721706	Rush pasture	Ground layer	Pitfall trap	1
Coleoptera	Gorse weevil	<i>Exapion ulicis</i>	02/07/2021	R719704	Hedgerow	Shrub layer	Pitfall trap	1
Coleoptera	Leaf beetle	<i>Crepidodera fulvicornis</i>	02/07/2021	R719704	Hedgerow	Shrub layer	Tapped off	1
Coleoptera	10-spot Ladybird	<i>Adalia decempunctata</i>	18/08/2021	R722704	Hedgerow	Tree canopy	Tapped off	1
Coleoptera	Rove beetle	<i>Aleochara lanuginosa</i>	18/08/2021	R722704	Hedgerow	Tree canopy	Upper FITS	1

Group	Common name	Latin name	Date	Location	Habitat	Niche	Method	Abundance
Coleoptera	Mould beetle	<i>Cartodere nodifer</i>	18/08/2021	R722704	Hedgerow	Tree canopy	FITS	1
Coleoptera	Narrow-waisted bark beetle	<i>Salpingus planirostris</i>	18/08/2021	R722704	Hedgerow	Tree canopy	FITS	1
Coleoptera	10-spot Ladybird	<i>Adalia decempunctata</i>	17/08/2021	R719704	Hedgerow	Shrub layer	FITS	1
Coleoptera	10-spot Ladybird	<i>Adalia decempunctata</i>	17/08/2021	R723704	Hedgerow	Tree canopy	Sweep net	3
Coleoptera	Rove beetle	<i>Aleochara sparsa</i>	17/08/2021	R723704	Hedgerow	Tree canopy	Upper FITS	3
Coleoptera	Woodworm beetle	<i>Anobium inexpectatum</i>	17/08/2021	R723704	Hedgerow	Tree canopy	Upper FITS	3
Coleoptera	Click beetle	<i>Athous haemorrhoidalis</i>	17/08/2021	R723704	Hedgerow	Tree canopy	Upper FITS	1
Coleoptera	Minute mould beetle	<i>Corticaria gibbosa</i>	17/08/2021	R723704	Hedgerow	Tree canopy	Upper FITS	2
Coleoptera	Ground beetle	<i>Dromius quadrimaculatus</i>	17/08/2021	R723704	Hedgerow	Tree canopy	Upper FITS	1
Coleoptera	Rove beetle	<i>Dropephylla gracilicornis</i>	17/08/2021	R723704	Hedgerow	Tree canopy	Upper FITS	1
Coleoptera	Leaf beetle	<i>Galerucella lineola</i>	17/08/2021	R719704	Hedgerow	Shrub layer	Upper FITS	1
Coleoptera	Rove beetle	<i>Geostiba circellaris</i>	17/08/2021	R719704	Hedgerow	Shrub layer	Sweep net	1
Coleoptera	Weevil	<i>Ischnopterapion modestum</i>	17/08/2021	R719704	Rush pasture	Meadow	Sweep net	1
Coleoptera	Rove beetle	<i>Mocyta amplicollis</i>	17/08/2021	R719704	Hedgerow	Shrub layer	Sweep net	1
Coleoptera	Rove beetle	<i>Mocyta fungi</i>	17/08/2021	R723704	Hedgerow	Canopy	Sweep net	2
Coleoptera	Rove beetle	<i>Mocyta orbata</i>	17/08/2021	R719704	Hedgerow	Shrub layer	Upper FITS	2
Coleoptera	Rove beetle	<i>Phlaeonomus pusillus</i>	17/08/2021	R723704	Hedgerow	Canopy	Sweep net	1
Coleoptera	14-spot Ladybird	<i>Propylea quattuordecimpunctata</i>	17/08/2021	R719704	Hedgerow	Intact hedge	Upper FITS	1
Coleoptera	Fan-bearing wood-borer	<i>Ptilinus pectinicornis</i>	17/08/2021	R723704	Hedgerow	Tree canopy	Sweep net	3
Coleoptera	Rove beetle	<i>Quedius semiobscurus</i>	17/08/2021	R720724	Rush pasture	Field layer	Upper FITS	1
Coleoptera	Elm bark beetle	<i>Scolytus laevis</i>	17/08/2021	R723704	Hedgerow	Tree canopy	Sweep net	1
Coleoptera	Sap beetle	<i>Soronia grisea</i>	17/08/2021	R723704	Hedgerow	Tree canopy	Upper FITS	2
Coleoptera	Rove beetle	<i>Stenus juno</i>	17/08/2021	R722705	Rush pasture	Field layer	Upper FITS	1
Coleoptera	Rove beetle	<i>Tachyporus chrysomelinus</i>	17/08/2021	R721704	Hedgerow	Shrub layer	Sweep net	1
Coleoptera	Ground beetle	<i>Agonum fuliginosum</i>	02/07/2021	R720706	Rush pasture	Shrub layer	Sweep net	1
Coleoptera	Ground beetle	<i>Agonum marginatum</i>	01/07/2021	R721704	Hedgerow	Shrub layer	Sweep net	1
Coleoptera	Water beetle	<i>Anacaena globulus</i>	02/07/2021	R721704	Hedgerow	Moss/grass, ground layer	Sweep net	2
Coleoptera	Ground beetle	<i>Bembidion lampros</i>	01/07/2021	R721704	Hedgerow	Stones, understorey	Hand searching	1
Coleoptera	Ground beetle	<i>Bembidion mannerheimi</i>	01/07/2021	R721704	Hedgerow	Stones, understorey	Hand searching	1
Coleoptera	Weevil	<i>Ceutorhynchus typhae</i>	02/07/2021	R720706	Rush pasture	Shrub layer	Hand searching	1
Coleoptera	Leaf beetle	<i>Chalcoides fulvicornis</i>	02/07/2021	R721704	Species-rich boundaries	Shrub layer	Sweep net	1
Coleoptera	Soldier beetle	<i>Cantharis nigra</i>	02/07/2021	R720706	Hedgerow	Moss/grass. Ground layer	Tapped off	1

Group	Common name	Latin name	Date	Location	Habitat	Niche	Method	Abundance
Coleoptera	Soldier beetle	<i>Cantharis nigra</i>	02/07/2021	R720706	Hedgerow	Shrub layer	Hand searching	2
Coleoptera	Soldier beetle	<i>Cantharis nigra</i>	02/07/2021	R721705	Rush pasture	Shrub layer	Sweep net	1
Coleoptera	Soldier beetle	<i>Cantharis nigra</i>	02/07/2021	R720706	Hedgerow	Moss/grass. Ground layer	Sweep net	1
Coleoptera	Soldier beetle	<i>Cantharis nigra</i>	02/07/2021	R720706	Species-rich boundaries	Shrub layer		2
Coleoptera	Soldier beetle	<i>Cantharis pallida</i>	02/07/2021	R720706	Species-rich boundaries	Shrub layer	Sweep net	1
Coleoptera	Soldier beetle	<i>Cantharis pallida</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	1
Coleoptera	Soldier beetle	<i>Cantharis pallida</i>	02/07/2021	R720706	Rush pasture	Field layer	Sweep net	1
Coleoptera	Mould beetle	<i>Cartodere bifasciata</i>	02/07/2021	R721704	Hedgerow	Moss/grass. Ground layer	Sweep net	1
Coleoptera	Ground beetle	<i>Clivina fossor</i>	02/07/2021	R721704	Hedgerow	Moss/grass. Ground layer	Hand searching	1
Coleoptera	Minute mould beetle	<i>Corticinara gibbosa</i>	02/07/2021	R720706	Hedgerow	Shrub layer	Hand searching	1
Coleoptera	Pill beetle	<i>Cytilus sericeus</i>	02/07/2021	R721704	Hedgerow	Moss/grass. Ground layer	Sweep net	1
Coleoptera	Ground beetle	<i>Demetrias atricapillus</i>	02/07/2021	R720706	Hedgerow	Moss/grass. Ground layer	Hand searching	1
Coleoptera	Gorse weevil	<i>Exapion ulicis</i>	02/07/2021	R720706	Hedgerow	Intact hedge	Hand searching	2
Coleoptera	Rove beetle	<i>Geostiba circellaris</i>	02/07/2021	R721704	Hedgerow	Moss/grass. Ground layer	Sweep net	2
Coleoptera	Short-winged flower beetle	<i>Kateretes rufilabris</i>	02/07/2021	R720706	Rush pasture	Field layer	Hand searching	1
Coleoptera	Weevil	<i>Leiosoma deflexum</i>	02/07/2021	R721704	Hedgerow	Moss/grass. Ground layer	Sweep net	2
Coleoptera	Leaf beetle	<i>Neocrepidodera ferruginea</i>	02/07/2021	R720706	Rush pasture	Field layer	Hand searching	1
Coleoptera	Leaf beetle	<i>Neocrepidodera transversa</i>	02/07/2021	R720706	Rush pasture	Field layer	Sweep net	2
Coleoptera	Leaf beetle	<i>Neocrepidodera transversa</i>	02/07/2021	R720706	Hedgerow	Shrub layer	Sweep net	2
Coleoptera	Leaf beetle	<i>Neocrepidodera transversa</i>	02/07/2021	R720706	Rush pasture	Field layer	Sweep net	1
Coleoptera	Rove beetle	<i>Oxypoda elongatula</i>	02/07/2021	R721704	Rush pasture	Moss/grass. Ground layer	Sweep net	1
Coleoptera	Weevil	<i>Perapion violaceus</i>	02/07/2021	R720706	Rush pasture	Field layer	Hand searching	1
Coleoptera	Rove beetle	<i>Philhygra malleus</i>	02/07/2021	R721704	Rush pasture	Moss/grass. Ground layer	Sweep net	1
Coleoptera	Rove beetle	<i>Philhygra melanocephala</i>	02/07/2021	R721704	Rush pasture	Moss/grass. Ground layer	Hand searching	2
Coleoptera	Ground beetle	<i>Pterostichus diligens</i>	02/07/2021	R720706	Rush pasture	Moss/grass. Ground layer	Hand searching	3
Coleoptera	Ground beetle	<i>Pterostichus diligens</i>	02/07/2021	R721704	Rush pasture	Moss/grass. Ground layer	Hand searching	3
Coleoptera	Rove beetle	<i>Pterostichus rhaeticus</i>	02/07/2021	R721704	Rush pasture	Stones, understorey	Hand searching	4
Coleoptera	Rove beetle	<i>Quedius laevicollis</i>	02/07/2021	R721704	Rush pasture	Moss/grass. Ground layer	Hand searching	1
Coleoptera	Rove beetle	<i>Quedius maurorufus</i>	02/07/2021	R720706	Rush pasture	Moss/grass. Ground layer	Hand searching	1

Group	Common name	Latin name	Date	Location	Habitat	Niche	Method	Abundance
Coleoptera	Rove beetle	<i>Quedius semiaeneus</i>	02/07/2021	R721704	Rush pasture	Moss/grass. Ground layer	Hand searching	1
Coleoptera	Rove beetle	<i>Quedius semiobscurus</i>	02/07/2021	R721704	Rush pasture	Moss/grass. Ground layer	Hand searching	1
Coleoptera	Rove beetle	<i>Reichenbachia juncorum</i>	02/07/2021	R721704	Rush pasture	Moss/grass. Ground layer	Hand searching	1
Coleoptera	Weevil	<i>Sitona lepidus</i>	02/07/2021	R720706	Rush pasture	Field layer	Hand searching	1
Coleoptera	Weevil	<i>Sitona regensteinensis</i>	02/07/2021	R720706	Species-rich boundaries	Shrub layer	Sweep net	2
Coleoptera	Rove beetle	<i>Stenus latifrons</i>	02/07/2021	R721704	Rush pasture	Moss/grass. Ground layer	Sweep net	1
Coleoptera	Rove beetle	<i>Stenus nitidiusculus</i>	02/07/2021	R720706	Rush pasture	Moss/grass. Ground layer	Hand searching	1
Coleoptera	Rove beetle	<i>Stenus nitidiusculus</i>	02/07/2021	R721704	Rush pasture	Moss/grass. Ground layer	Hand searching	2
Coleoptera	Rove beetle	<i>Tachyporus dispar</i>	02/07/2021	R720706	Rush pasture	Moss/grass. Ground layer	Hand searching	1
Coleoptera	Rove beetle	<i>Tachyporus dispar</i>	02/07/2021	R721704	Rush pasture	Moss/grass. Ground layer	Hand searching	1
Coleoptera	Water beetle	<i>Agabus bipustulatus</i>	17/08/2021	R72327059	Pools	In wheel ruts near old farm buildings	Hand searching	1
Coleoptera	Water beetle	<i>Hydroporus planus</i>	17/08/2021	R72327059	Pools	In wheel ruts near old farm buildings	Pond net	1
Coleoptera	Rove beetle	<i>Stenus impressus</i>	17/08/2021	R721704	Hedgerow	Shrub layer	Pond net	1
Coleoptera	Gorse weevil	<i>Exapion ulicis</i>	17/08/2021	R721704	Hedgerow	Shrub layer	Tapped and swept	3
Hemiptera	True bug	<i>Closterotomus norwegicus</i>	17/08/2021	R720705	Rush pasture	Field layer	Tapped and swept	1
Hemiptera	Water measurer	<i>Hydrometra stagnorum</i>	17/08/2021	R720705	Rush pasture	Field layer	Sweep net	1
Hemiptera	Green shieldbug	<i>Palomena prasina</i>	17/08/2021	R719706	Rush pasture	Field layer	Pitfall trap	1
Hemiptera	True bug	<i>Pithanus maerkeli</i>	17/08/2021	R719706	Rush pasture	Field layer	Sweep net	1
Hemiptera	Green shieldbug	<i>Palomena prasina</i>	17/08/2021	R719706	Rush pasture	Field layer	Sweep net	1
Hemiptera	True bug	<i>Capsus ater</i>	17/08/2021	R719706	Rush pasture	Field layer	Sweep net	1
Hemiptera	True bug	<i>Stenodema laevigata</i>	17/08/2021	R725705	Hedgerow	Shrub layer	Sweep net	2
Hemiptera	True bug	<i>Pithanus maerkeli</i>	17/08/2021	R723705	Hedgerow	Shrub layer	Sweep net	1
Hemiptera	Forest shieldbug	<i>Pentatoma rufipes</i>	02/07/2021	R720706	Hedgerow	Shrub layer	Sweep net	1
Aranaea	Crab spider	<i>Misumena vatia</i>	01/07/2021	R720726	Rush pasture	Field layer	Tapped off	1
Aranaea	Nursery web spider	<i>Pisaura mirabilis</i>	02/07/2021	R724705	Rush pasture	Field layer	Sweep net	1
Aranaea	Money spider	<i>Bathyphantes gracilis</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	1
Aranaea	Money spider	<i>Erigone atra</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	1
Aranaea	Money spider	<i>Tenuiphantes tenuis</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	1
Aranaea	Long-jawed spider	<i>Tetragnatha extensa</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	1
Aranaea	Money spider	<i>Oedothorax gibbosus</i>	02/07/2021	R721705	Rush pasture	Field layer	Sweep net	1
Aranaea	Orb weaver	<i>Araniella opisthographa</i>	02/07/2021	R721704	Wet grassland	Ground layer	Sweep net	1

Group	Common name	Latin name	Date	Location	Habitat	Niche	Method	Abundance
Aranaea	Money spider	<i>Ceratinella brevipes</i>	02/07/2021	R721704	Wet grassland	Ground layer	Sorting grass & moss	1
Aranaea	Long-jawed spider	<i>Pachygnatha degeeri</i>	02/07/2021	R721704	Wet grassland	Ground layer	Sorting grass & moss	1
Aranaea	Money spider	<i>Erigone atra</i>	02/07/2021	R721704	Wet grassland	Ground layer	Sorting grass & moss	1
Aranaea	Money spider	<i>Bathyphantes gracilis</i>	02/07/2021	R721704	Wet grassland	Ground layer	Sorting grass & moss	1
Aranaea	Wolf spider	<i>Alopecosa pulverulenta</i>	02/07/2021	R721704	Wet grassland	Ground layer	Sorting grass & moss	1
Aranaea	Money spider	<i>Oedothorax retusus</i>	02/07/2021	R721704	Wet grassland	Ground layer	Sorting grass & moss	1
Aranaea	Money spider	<i>Erigonella hiemalis</i>	02/07/2021	R721704	Wet grassland	Ground layer	Sorting grass & moss	1
Aranaea	Money spider	<i>Bathyphantes gracilis</i>	02/07/2021	R721704	Wet grassland	Ground layer	Sorting grass & moss	1
Aranaea	Money spider	<i>Oedothorax fuscus</i>	02/07/2021	R721704	Wet grassland	Ground layer	Sorting grass & moss	1
Aranaea	Wolf spider	<i>Pirata latitans</i>	02/07/2021	R720726	Moss and grass	Ground layer	Sorting grass & moss	1
Aranaea	Comb-footed spider	<i>Enoplognatha ovata</i>	02/07/2021	R720726	Moss and grass	Ground layer	Sorting grass & moss	1
Aranaea	Money spider	<i>Oedothorax fuscus</i>	02/07/2021	R720726	Moss and grass	Ground layer	Sorting grass & moss	1
Aranaea	Crab spider	<i>Xysticus cristatus</i>	02/07/2021	R720706	Rush pasture	Ground layer	Sorting grass & moss	1
Aranaea	Money spider	<i>Bathyphantes gracilis</i>	02/07/2021	R720706	Rush pasture	Ground layer	Sweep net	2
Aranaea	Money spider	<i>Oedothorax gibbosus</i>	02/07/2021	R720706	Rush pasture	Ground layer	Sweep net	2
Aranaea	Money spider	<i>Erigone atra</i>	02/07/2021	R720706	Rush pasture	Ground layer	Sweep net	3
Aranaea	Money spider	<i>Tenuiphantes tenuis</i>	02/07/2021	R720706	Rush pasture	Ground layer	Sweep net	4
Aranaea	Money spider	<i>Oedothorax fuscus</i>	02/07/2021	R720706	Rush pasture	Ground layer	Sweep net	1
Aranaea	Long-jawed spider	<i>Tetragnatha extensa</i>	02/07/2021	R720706	Rush pasture	Ground layer	Sweep net	1
Aranaea	Comb-footed spider	<i>Theridion varians</i>	02/07/2021	R720706	Rush pasture	Ground layer	Sweep net	1
Aranaea	Comb-footed spider	<i>Enoplognatha ovata</i>	02/07/2021	R720706	Hedgerow	Shrub layer	Sweep net	1
Aranaea	Long-jawed spider	<i>Tetragnatha montana</i>	02/07/2021	R720706	Hedgerow	Shrub layer	Tapped off shrubs	3
Aranaea	Money spider	<i>Palliduphantes ericaeus</i>	02/07/2021	R720706	Hedgerow	Shrub layer	Tapped off shrubs	1
Aranaea	Money spider	<i>Kaestria dorsalis</i>	02/07/2021	R720706	Hedgerow	Shrub layer	Tapped off shrubs	1
Aranaea	Money spider	<i>Neriene montana</i>	02/07/2021	R720706	Hedgerow	Shrub layer	Tapped off shrubs	1
Aranaea	Comb-footed spider	<i>Phylloneta sisypbia</i>	02/07/2021	R720706	Hedgerow	Shrub layer	Tapped off shrubs	1
Aranaea	Money spider	<i>Erigone atra</i>	02/07/2021	R720706	Hedgerow	Shrub layer	Tapped off shrubs	1
Aranaea	Money spider	<i>Leptorhoptrum robustum</i>	18/08/2021	R720705	Rush pasture	Ground layer	Tapped off shrubs	3
Aranaea	Money spider	<i>Oedothorax fuscus</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap	5
Aranaea	Money spider	<i>Monocephalus fuscipes</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap	1
Aranaea	Money spider	<i>Pocadicnemis pumila</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap	1
Aranaea	Money spider	<i>Bathyphantes gracilis</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap	1
Aranaea	Wolf spider	<i>Pardosa pullata</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap	1
Aranaea	Orb weaver	<i>Araneus quadratus</i>	17/08/2021	R720705	Rush pasture	Field layer	Pitfall trap	2
Aranaea	Crab spider	<i>Xysticus cristatus</i>	17/08/2021	R720705	Rush pasture	Field layer	Sweep net	1

Group	Common name	Latin name	Date	Location	Habitat	Niche	Method	Abundance
Aranaea	Money spider	<i>Erigone atra</i>	17/08/2021	R720705	Rush pasture	Field layer	Sweep net	1
Aranaea	Long-jawed spider	<i>Tetragnatha extensa</i>	17/08/2021	R720705	Rush pasture	Field layer	Sweep net	1
Aranaea	Money spider	<i>Erigone dentipalpis</i>	17/08/2021	R720705	Rush pasture	Field layer	Sweep net	1
Aranaea	Orb weaver	<i>Araneus diadematus</i>	17/08/2021	R720705	Rush pasture	Field layer	Sweep net	1
Aranaea	Long-jawed spider	<i>Pachygnatha clercki</i>	17/08/2021	R722707	Rush pasture	Ground layer	Sweep net	1
Aranaea	Money spider	<i>Leptorhoptrum robustum</i>	17/08/2021	R722708	Rush pasture	Ground layer	Pitfall trap	1
Aranaea	Money spider	<i>Erigone atra</i>	17/08/2021	R722709	Rush pasture	Ground layer	Pitfall trap	2
Aranaea	Money spider	<i>Oedothorax fuscus</i>	17/08/2021	R722710	Rush pasture	Ground layer	Pitfall trap	1
Aranaea	Long-jawed spider	<i>Pachygnatha degeeri</i>	17/08/2021	R719706	Rush pasture	Field layer	Pitfall trap	1
Aranaea	Money spider	<i>Bathyphantes gracilis</i>	17/08/2021	R719706	Rush pasture	Field layer	Sweep net	2
Aranaea	Long-jawed spider	<i>Metellina segmentata</i>	17/08/2021	R725705	Hedgerow	Shrub layer	Sweep net	2
Aranaea	Long-jawed spider	<i>Tetragnatha extensa</i>	17/08/2021	R725705	Hedgerow	Shrub layer	Sweep net	1
Aranaea	Money spider	<i>Linyphia triangularis</i>	17/08/2021	R725705	Hedgerow	Shrub layer	Sweep net	1
Aranaea	Money spider	<i>Tenuiphantes tenuis</i>	17/08/2021	R725705	Hedgerow	Shrub layer	Sweep net	1
Aranaea	Comb-footed spider	<i>Enoplognatha ovata</i>	01/07/2021	R720726	Hedgerow	Shrub layer	Sweep net	2
Aranaea	Comb-footed spider	<i>Phylloneta sisypbia</i>	01/07/2021	R720726	Hedgerow	Shrub layer	Tapped off gorse	1
Aranaea	Running crab spider	<i>Philodromus cespitum</i>	01/07/2021	R720726	Hedgerow	Shrub layer	Tapped off gorse	1
Aranaea	Orb weaver	<i>Araniella cucurbitina</i>	01/07/2021	R720726	Hedgerow	Shrub layer	Tapped off gorse	1
Aranaea	Labyrinth spider	<i>Agelena labryinthica</i>	01/07/2021	R720726	Hedgerow	Shrub layer	Tapped off gorse	2
Aranaea	Sac spider	<i>Clubiona lutescens</i>	02/07/2021	R720706	Hedgerow	Hedgerow	Tapped off gorse	1
Aranaea	Money spider	<i>Erigone dentipalpis</i>	17/08/2021	R723706	Canopy	Tree canopy	Tapped off gorse	1
Aranaea	Money spider	<i>Monocephalus fuscipes</i>	17/08/2021	R72277060	Hedgerow	Dead wood	Upper FITS	1
Aranaea	Wolf spider	<i>Pirata piraticus</i>	01/07/2021	R721704	Rush pasture	Under stones/wood	Hand searching	1
Aranaea	Wolf spider	<i>Pardosa amentata</i>	01/07/2021	R721704	Rush pasture	Under stones/wood	Hand searching	3
Aranaea	Money spider	<i>Oedothorax agrestis</i>	01/07/2021	R721704	Rush pasture	Under stones/wood	Hand searching	3
Aranaea	Money spider	<i>Bathyphantes gracilis</i>	17/08/2021	R720726	Hedgerow	Shrub layer	Hand searching	1
Aranaea	Money spider	<i>Linyphia triangularis</i>	17/08/2021	R720726	Hedgerow	Shrub layer	Tapped and swept	4
Aranaea	Long-jawed spider	<i>Metellina mengei</i>	17/08/2021	R720726	Hedgerow	Shrub layer	Tapped and swept	1
Aranaea	Comb-footed spider	<i>Anelosimus vittatus</i>	17/08/2021	R723705	Hedgerow	Shrub layer	Tapped and swept	1
Opiliones	Harvestman	<i>Nemastoma bimaculatum</i>	18/08/2021	R720705	Rush pasture	Ground layer	Sweep net	1
Opiliones	Harvestman	<i>Leiobunum blackwalli</i>	17/08/2021	R725705	Hedgerow	Shrub layer	Pitfall trap	1
Opiliones	Harvestman	<i>Nemastoma bimaculatum</i>	17/08/2021	R72317059	Near old farm building	Under stones	Sweep net	1
Opiliones	Harvestman	<i>Dicranopalpus ramosus</i>	17/08/2021	R723705	Hedgerow	Shrub layer	Hand searching	1
Dermaptera	Earwig	<i>Forficula auricularia</i>	17/08/2021	R725705	Hedgerow	Shrub layer	Sweep net	1

Group	Common name	Latin name	Date	Location	Habitat	Niche	Method	Abundance
Isopoda	Common shiny woodlouse	<i>Oniscus asellus</i>	17/08/2021	R72317059	Hedgerow	Under stones	Sweep net	1
Isopoda	Common shiny woodlouse	<i>Oniscus asellus</i>	18/08/2021	R720705	Rush pasture	Ground layer	Hand searching	2
Isopoda	Woodlouse	<i>Oritoniscus flavus</i>	18/08/2021	R720705	Rush pasture	Ground layer	Pitfall trap	1
Isopoda	Rough woodlouse	<i>Porcellio scaber</i>	17/08/2021	R72277060	Hedgerow	Dead wood	Pitfall trap	3
Isopoda	Common shiny woodlouse	<i>Oniscus asellus</i>	17/08/2021	R72277060	Hedgerow	Dead wood	Hand searching	2
Isopoda	Woodlouse	<i>Porcellionides cingendus</i>	17/08/2021	R72277060	Hedgerow	Dead wood	Hand searching	1
Isopoda	Common shiny woodlouse	<i>Oniscus asellus</i>	01/07/2021	R721704		Under stones/wood	Hand searching	2
Diplopoda	Millipede	<i>Polydesmus coriaceus</i>	18/08/2021	R720705	Rush pasture	Dead wood	Hand searching	2