

**The status and distribution of the Nationally Rare and Vulnerable bog rove beetle *Lathrobium rufipenne* in Cheshire in 2022**



**Peter Brash February 2023**

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## Summary

A field survey of the Red-list Vulnerable rove beetle *Lathrobium rufipenne* (Gyllenhal, 1813) was conducted between 7<sup>th</sup> June and 12<sup>th</sup> August 2022 in order to ascertain its status and distribution in Cheshire.

A desk study identified four sites with previous records and 17 sites to be surveyed, Table 1. This included one site thought most likely to support an extant population (Wybunbury Moss), sites with historical records and sites thought to have potential to support the species.

**Table 1 Target sites**

<b>Mire Grouping</b>	<b>Mire Sites</b>	<b>Latest year found</b>
Abbot's Moss Area	Lily Pool (SJ 59566925)	
	Gull Moss (SJ 60116871)	1920?
	Shemmy Moss (SJ 59496892)	1920?
	South Moss (SJ 59376863)	1920?
	Brackenhurst Bog (SJ 59566983)	
	Oak Mere (SJ 57656807)	
	Petty Pool	1973
Delamere Forest	Flaxmere Moss (SJ 55657229)	1980
	Barnsbridge Basin (SJ 54207190)	
	Basin Mire N3 (SJ 54927205)	
	Black Lake (SJ 53737091)	
	Hatchmere (SJ 55217206)	
	Hogshead Moss (SJ 58426952)	
Little Budworth Common	Central Moss (SJ 58506574)	
	East Moss (SJ 58596570)	
	North Moss (SJ 58426585)	
	Whitehall Moss (SJ 58786580)	
Wybunbury	Wybunbury Moss (SJ 697502)	2003

All sites were visited at least once with the exception of Oak Mere, Brackenhurst Bog and Petty Pool (access couldn't be arranged to the latter site and the former sites were considered to be too dry to support the target species). Some of the sites were visited on more than one occasion.

*Lathrobium rufipenne* was found at a total of four sites. It was reconfirmed from Wybunbury Moss, rediscovered at Shemmy Moss and recorded for the first time at Lily Pool and Black Lake. Adults of both sexes were found and on 25<sup>th</sup> July teneral specimens of the beetle were found at Shemmy Moss, giving additional insight into the breeding cycle of the species. With this in mind it seems likely that the species breeds in the spring and will overwinter in the adult stage, a strategy outlined in Lott, (2003a).

*Lathrobium rufipenne* couldn't be found at Flaxmere. The site is thought to be too dry for the species currently. The Petty Pool site was not visited but again due to access limitations, habitat is thought to be too dry to be suitable (Gary Hedges, pers. comm.).

In total 191 species of invertebrate were encountered during the survey, including 77 beetles, 38 true flies, 26 true bugs and 18 hymenoptera. Amongst these were a number of rare, scarce or otherwise significant species, these included the first Cheshire record of the common tortoise bug *Eurygaster testidunaria* and the first modern records of the aleocharine rove beetle *Gymnusa brevicollis*.

## Introduction

*Lathrobium rufipenne* is a small (6-7mm long) rove beetle associated with wetland sites. There seem to be two types of habitat that the species frequents; very wet sphagnum bogs, usually with areas of open water in close proximity (the Cheshire sites all had these characteristics), the beetle is also associated with drier fen habitats in East Anglia, being found amongst sedge or rush litter (Lott, 2003).

National Biodiversity Network (NBN) shows 18 records (confirmed and unconfirmed) in England and Wales. These include a cluster of records from the Cheshire Mosses, another cluster of records from the Norfolk Broads, centred on the Rivers Bure and its tributary the River Ant. Boyce (2022) states that records from the Midlands, South Wales, Scotland and South Lancashire are unconfirmed and might be misidentifications. There is no mention of a record from Chippenham Fen in Cambridgeshire which is stated to be confirmed on the National Biodiversity Network (NBN) Atlas.

Boyce (2022) states that the beetle has been recorded from 12 pre-1980 and only four post-1979 hectads (10Km x 10Km squares). This suggests a significant decline although the author thinks it likely that some earlier records may be misidentifications of other *Lathrobium* species.

The most recent record in Cheshire is from Wybunbury Moss on 10th June 2003, where it was 'abundant'. It was searched for on 11<sup>th</sup> June, 2003 at Flaxmere (location of a 1980 record) but not located, (Lott, 2003). There are more recent (2010) records from Catfield Fen in Norfolk.

Other Cheshire records include 'Petty Pool' in 1973 and one or more of the mosses in the Abbot's Moss complex in 1920.

## Methodology

The first site to be visited was Wybunbury Moss as it was thought most likely to support a viable population of the beetle and search methods could be refined. Other sites were then visited, with the wetter areas of the site targeted primarily.

Various habitats were hand-searched at Wybunbury including fen pools, sphagnum, sedge and rush litter. Vacuum sampling (with a small handheld electric vacuum cleaner) was attempted in wet sphagnum without success.

The method that was successful was similar to that outlined by Lott (2003b). Sphagnum moss was submerged by walking backwards over it and searching for the beetles rising to the surface of the water. Beetles could then be captured by hand or by scooping up with a small plastic tea strainer. The method was particularly successful close to an area of open water at Wybunbury and all sites that were occupied by *Lathrobium rufipenne* had an element of open water nearby (within 20 metres). Sites in which sphagnum was easily submerged were the ones that were fruitful during the survey, usually water depth would be a minimum of 30cm when walked upon. All sites where sphagnum was difficult to submerge or where the sphagnum rebounded quickly appeared to be unoccupied.

Occupied sites were marked with a mobile phone app that gave a 10 figure Ordnance Survey grid reference.

Specimens tentatively identified in the field were confirmed by using the keys in Lott and Anderson (2011). Reference was also made to a key by Lompe which is available online on the Coleonet.de website.

The beetles are approximately 6-7mm long and black with elytra two-thirds red, appendages are reddish. The head is fairly square but with rounded hind angles and the neck is thick. The puncturation on the head is very fine and dense (compared to the thorax). The male genitalia are diagnostic.



Genitalia of male *Lathrobium rufipenne*

Voucher material of *L. rufipenne* from the survey will be held in perpetuity at World Museum, Liverpool.

A range of other techniques including sweep netting, beating tray and visual searching were used to find other invertebrates on site. All species were entered onto iRecord.



## Results

### Occupied sites

*Lathrobium rufipenne* was relocated at Wybunbury Moss on 7<sup>th</sup> June 2022, a minimum of seven beetles being found close to a bog pool at SJ6957450212. A series of small hollows (possibly ephemeral pools that were dry at the time of survey) were sampled without success.



**Wybunbury Moss survey locations. Green line shows area where seven *Lathrobium rufipenne* were found, red pins showing unsuccessful searches.**

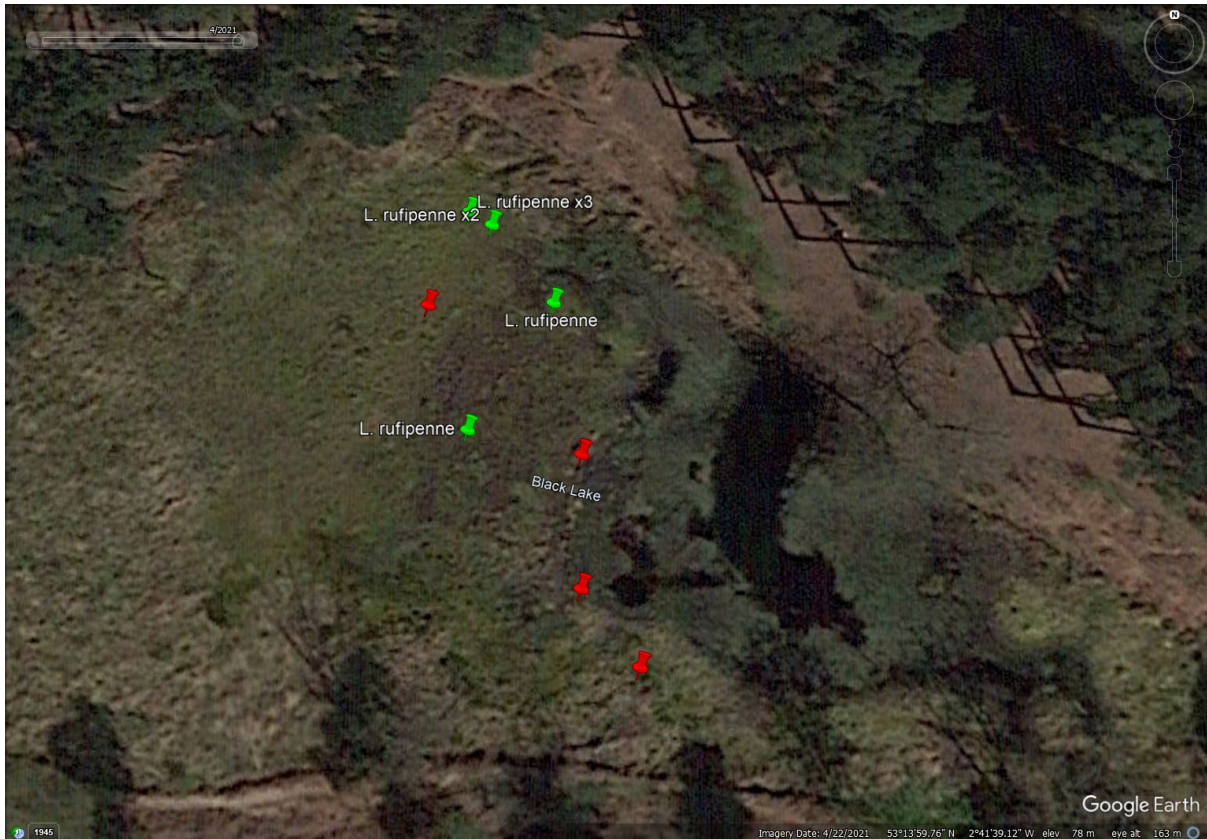
The habitat where successful searches were made was within 2 metres or so of a pool containing a small amount of water, bog mosses including *Sphagnum cuspidatum* and common cotton grass *Eriophorum angustifolium*. The habitat that the beetles came from was a mix of sphagna, common cotton grass, bog-rosemary *Andromeda polifolium*, round-leaved sundew *Drosera rotundifolia*, cranberry *Vaccinium oxycoccos*, heather *Calluna vulgaris* and cross-leaved heath *Erica tetralix*.



Wybunbury Moss *Lathrobium rufipenne* habitat



Black Lake, Delamere Forest was visited on 28<sup>th</sup> June 2022. A minimum of 2 beetles were found in a line between SJ5375570925 and SJ5374770916. A minimum of 5 beetles were found in an area centred around SJ5375070936.



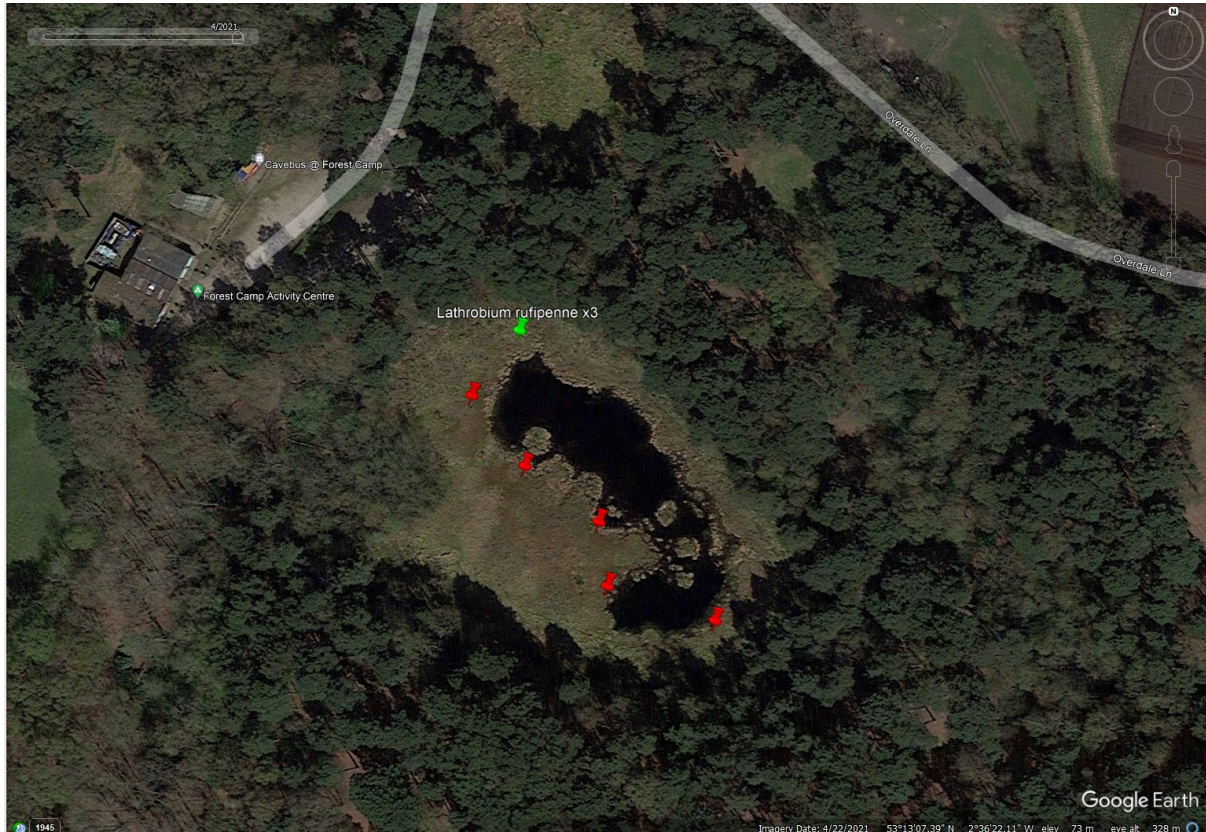
**Black Lake survey locations. Green pins show locations of successful searches, red pins unsuccessful searches.**

At Black Lake there is a large area of open water that supports a pondweed, possibly broad-leaved pondweed *Potamogeton natans* and bottle sedge *Carex rostrata*. The areas of the site that were occupied by *Lathrobium rufipenne* were between 10 and 20 metres of the open water. Here, there was easily submersible sphagnum moss, common cotton-grass, cranberry, round-leaved sundew, cross-leaved heath and sporadic rushes *Juncus sp.*.

A specimen from Black Lake was DNA barcoded and matches with sequences from the continent. The barcode is published on the BOLD database.



Lily Pool was visited on 4<sup>th</sup> July 2022. A minimum of three adult *Lathrobium rufipenne* were found close to SJ59556929. A repeat visit was made on 12<sup>th</sup> August 2022 when a minimum of two adult *L. rufipenne* were found in the same area. A number of other locations around the edge of the pool were surveyed without success.



**Lily Pool survey locations. Green pins show successful searches, red pins unsuccessful.**

Occupied habitat at Lily Pool was within 5 metres of open water. Easily submersible sphagnum was dominant in this area with frequent common cotton-grass, purple moor-grass *Molinia caerulea*, cranberry, round-leaved sundew, occasional common spike-rush *Eleocharis palustris*, white beak sedge *Rhynchospora alba*, marsh cinquefoil *Potentilla palustris* and cross-leaved heath.





Lily Pool *Lathrobium rufipenne* habitat.



Shemmy Moss was visited on 25<sup>th</sup> July 2022. A total of six adult *Lathrobium rufipenne* were found close to SJ5953568784. Amongst these were three teneral specimens suggesting that the new generation of adults emerges at this time and overlap with the previous generation.



#### Shemmy Moss survey locations.

The habitat at Shemmy Moss where *L. rufipenne* was found was dominated by sphagnum which was easily submersible, all records were within 5 metres of open water. Apart from sphagnum there was also abundant cranberry, frequent common cotton-grass, cross-leaved heath and heather were rare. The wetter edges towards the open water had great reedmace *Typha latifolia*, soft rush *Juncus effusus*, willows *Salix sp.*, and birches *Betula sp.* The latter mostly dead, presumably the site having become more wet since they had established.





Shemmy Moss *Lathrobium rufipenne* habitat

### Vacant sites

Flaxmere was initially visited on 15<sup>th</sup> June 2022.

Much of the site is dominated by ericaceous shrubs with heather most frequent, bell heather *Erica cineraria* and cross-leaved heath also occur. Round-leaved sundew, purple moor-grass and common cotton-grass occur in the wetter areas and bog asphodel *Narthecium ossifragum* occurs very locally. There are a lot of young birch saplings and bramble *Rubus fruticosus* agg. and *Rhododendron ponticum* also occur. Sphagnum occurs in a few low-lying areas and along a ditch which runs south-westwards across the site.

There is a lack of open water at Flaxmere and only one location that appeared to approach the wetness necessary to support the species. Generally, it was difficult to bring water to the surface anywhere across the site.

Flaxmere was visited again on 5<sup>th</sup> July 2022 after a heavy rain event the previous day but there was no noticeable impact on water levels.

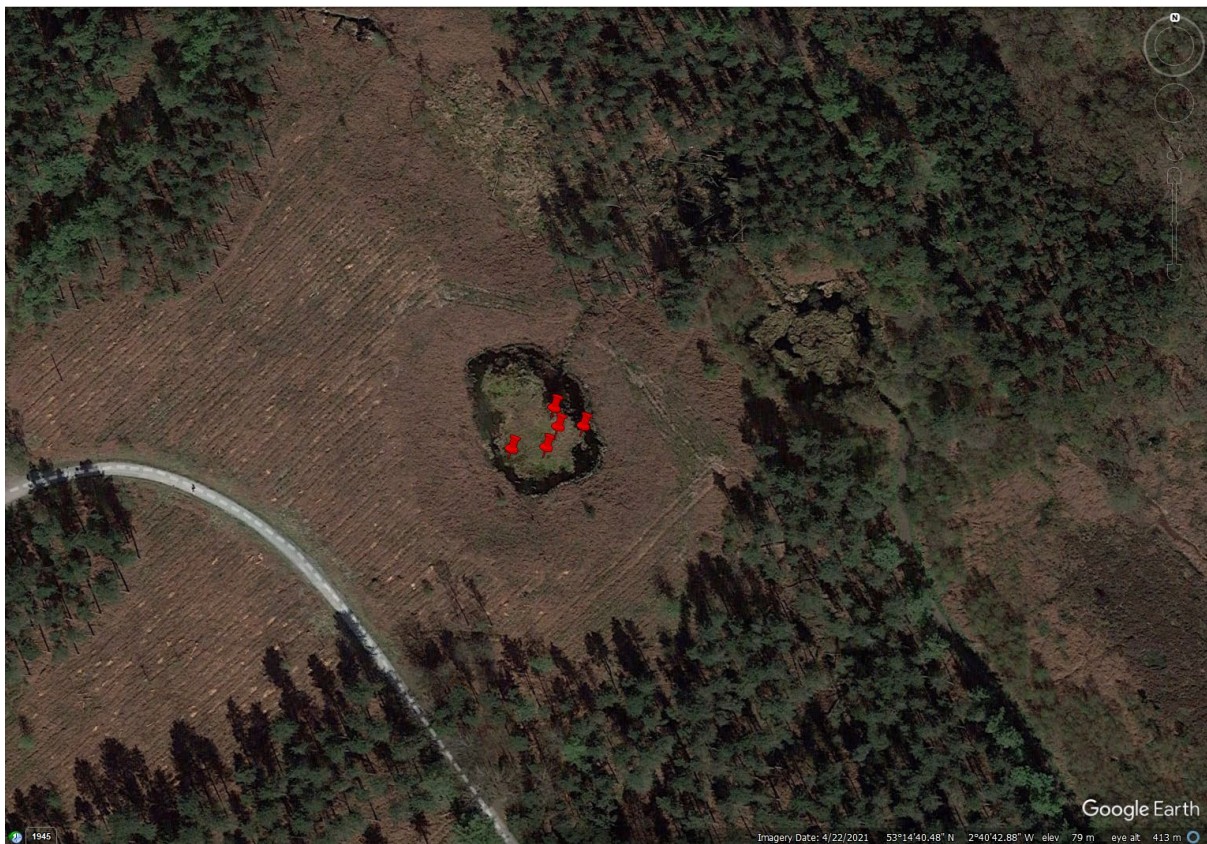


Flaxmere survey locations



Mire N3 was initially visited on 5<sup>th</sup> July 2022, safe access proved impossible as there was effectively a moat of deep water around the site, only a few small areas could be sampled. A repeat visit (accompanied) was made on 12<sup>th</sup> August 2022 when more of the site could be sampled. The site has water surrounding it with easily submersible sphagnum in places close to the water's edge. The interior in places is dominated by hummocks of *Polytrichum* moss. Other plants include soft rush, common cotton-grass, cross-leaved heath and broad buckler-fern *Dryopteris dilatata*.

The site appears to be wet enough to support the target species but none could be found.



Basin Mire N3 survey locations



Hatchmere was visited on 1<sup>st</sup> July 2022. Habitat was variable with some old drainage ditches and small seasonal pools supporting sphagnum but it was difficult to bring water to the surface. Otherwise much of the habitat was too dry with ericaceous shrubs (mainly heather, bilberry *Vaccinium myrtillus* and bell heather), scattered bog myrtle *Myrica gale* and wavy hair-grass *Deschampsia flexuosa*.

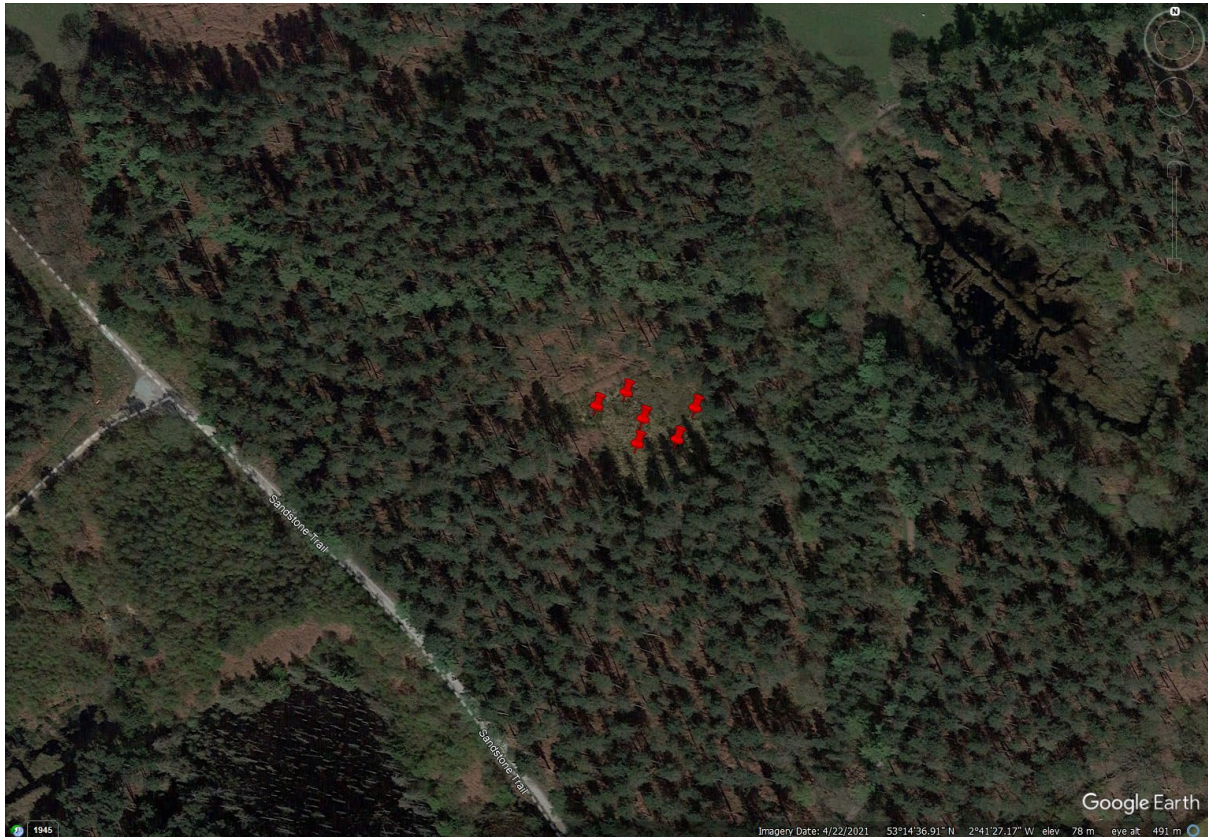
Closer to the mere itself the habitat grades from damp purple moor-grass and soft rush to a region dominated by bottle sedge before common reed *Phragmites australis* becomes dominant.



Hatchmere survey locations

Barnsbridge Basin was visited on 1<sup>st</sup> July 2022. The habitat was damp but not wet, sphagnum was abundant with occasional small areas where water could be brought to the surface but the sphagnum quickly rebounded to cover any water. Other plants included cranberry, cross-leaved heath and common cotton-grass.

Overall, the habitat appeared to be too dry for the target species.



Barnsbridge Basin survey locations



Hogshead Moss was visited on 4<sup>th</sup> July 2022. This was another site that was difficult to access being very wet around the edges and not safely accessed when alone. The edges were explored in some areas. Easily submersible sphagnum was dominant along the wetter edges with bottle sedge and common cotton-grass also frequent. Soft rush and great reedmace were also frequent in some of the drier edges and Polytrichum mosses were common in the central part. Birch, pine and willow trees were frequent.

The target species couldn't be found on this occasion, but the suitable wetness of the site and presence of sphagnum associated rove beetle *Gymnusa brevicollis* means that further exploration would be worthwhile.



Hogshead Moss survey locations



Whitehall Moss (part of the Little Budworth complex) was visited on 21<sup>st</sup> June 2022. The site is mostly dominated by ericaceous shrubs including heather and bell heather. In the southern part of the site there is an area dominated by sphagnum with occasional common cotton-grass, cranberry and cross-leaved heath. The habitat was too dry to support the target species.



Whitehall Moss survey locations

North, Central and East Mosses (part of the Little Budworth complex) were visited on 21<sup>st</sup> June 2022. The habitat is mainly dominated by ericaceous shrubs. Wetter areas include occasional small seasonal pools with sphagnum, common cotton-grass, cranberry, purple moor-grass and cross-leaved heath. Water can be brought to the surface in places but sphagnum quickly rebounds in most areas.



North Moss, Central Moss and East Moss survey locations.



Gull Moss was visited on 25<sup>th</sup> July 2022. The outer edge is dominated by birch and willow scrub but is very wet in places with sphagnum, bottle sedge, soft rush and in places water purslane *Lythrum portula* and marsh cinquefoil. The inner part of the site is drier and more open with sphagnum dominant, abundant cranberry, occasional to frequent cross-leaved heath and heather and occasional round-leaved sundew and bottle sedge.

Much of the habitat here appeared to be too dry to support the target species.



Gull Moss survey locations.

South Moss was visited on 25<sup>th</sup> July 2022. The edge of the habitat was very wet and it was difficult to penetrate into the interior of the site. The edge was a mix of common cotton-grass, sphagnum and bottle sedge with mostly dead pine and birch trees and living willows.

The interior of the site was varied, sphagnum was abundant with areas of bottle sedge and cranberry. White beak-sedge was abundant in places and cross-leaved heath and bog rosemary also frequent.

Although the species couldn't be found, the habitat is quite extensive and does appear suitable with plenty of areas where sphagnum can be easily submerged. Further investigation of this site would be worthwhile.



South Moss survey locations

## Discussion

The method outlined by Lott (2003b) of submersing sphagnum underfoot worked well. Sites that were occupied tended to have at least 30cm of water underneath the surface of the sphagnum and the moss tended to stay submerged for some time rather than rebounding back quickly. All of the occupied sites were within 20 metres of open water (often much closer), suggesting that this species is either restricted to the wettest sites or that saturated sphagnum moss is an important feature in the ecology of the species.



The *Lathrobium rufipenne* that were found, floated on the water surface, the appearance was of a tricoloured beetle with the red-tipped black elytra raised to expose the yellowish wings. At no time were the wings extended to attempt flight. The beetles swam very weakly across the surface of the water, moving slowly and flexing the whole body from side to side, there didn't appear to be any control of direction, the beetles drifting across the water surface before climbing onto tall vegetation (such as *Juncus*) to groom (cleaning of legs, antennae etc.), before returning below the surface of the sphagnum.

Lott, (2003b) reported a sex ratio of one male out of ten specimens, the results from this survey were less extreme with two males from six specimens taken.

Populations at the occupied sites appeared to be very localised. Beetles were found within a relatively small area and then seemingly absent across what seemed to be similar habitat within the same site. Some sites were also difficult to access due to the depth of water. Hogshead Moss, South Moss and Shemmy Moss may deserve more investigation due to the presence of what appeared to be suitable habitat and sufficient wetness. There may be other sites within Delamere Forest that are worthy of investigation also. The western end of Blakemere and Dolittle Moss are two examples.

## Threats

The three primary threats to the habitat that *Lathrobium rufipenne* occupies are drainage, eutrophication and increased tree cover, both through afforestation and natural regeneration.

Flaxmere was occupied up until at least 1980 but now appears to be too dry to support the species. The tree cover on the site has increased massively since 1945, with archive photographs showing tree cover being very restricted, mainly a small wedge on the northern part of the site. Efforts have been made to maintain higher water levels on the site with artificial dams inserted in a few places.

All of the sites visited had varying levels of tree cover, mainly pine, birches and willows and alder, rhododendron occurred on one or two sites also. Some sites that are ringed by tree cover might benefit from this being opened up, particularly where this might link other wetlands together.

Wybunbury Moss has suffered from eutrophication from various sources in the past and there was localised evidence (filamentous algae) of eutrophication at Lily Pool.

Another confounding factor on some of the sites is the fact that they are host to other species with conflicting management needs. Piper (2015) mentions planting willow to bolster the population of ten-spotted pot beetle at Wybunbury. Grayson has speculated that creating pools (something that might benefit *Lathrobium rufipenne*) might adversely affect populations of Cheshire horsefly. It is clear that managing for any of the special species that inhabit the Cheshire Mosses must take the other species into account. This also suggests

that the Lawton principles of bigger, better and more joined up are crucial for the ongoing favourable conservation status of the suite of species inhabiting Cheshire Mosses.

## Other significant records

A number of other important species records were generated during the survey, comprising Nationally Rare or Nationally Scarce species or records of high significance for Cheshire.

### Spiders

***Gnaphosa nigerrima*** Nationally Rare, Red-list Vulnerable

A robust black spider previously known only from Wybunbury Moss in Cheshire, but found at Black Firs and Cranberry Bog, Staffordshire in 2021. Inhabits sphagnum moss in boggy areas.

At least one recorded from Wybunbury Moss, SJ69575021 on 7<sup>th</sup> June.

***Sitticus floricola*** Nationally Rare

An attractive jumping spider known from boggy sites in Cheshire, Shropshire and Denbighshire, another population in loch shores in Kirkcudbrightshire.

Found at two known sites. Whitehall Moss SJ58786577 on 21st June and Lily Pool SJ595692 on 4<sup>th</sup> July.

### Flies

***Idioptera linnei*** Red Data Book-Endangered

A delicate crane fly with patterned wings. One seen at Wybunbury Moss SJ69575021 on 7<sup>th</sup> June. Several seen at Whitehall Moss SJ58786579 on 21<sup>st</sup> June.

**Cheshire horsefly *Atylotus plebeius*** Nationally Rare, Red-list Endangered

A relatively small, grey horsefly. No records of blood meals have been documented. Records from a few mosses in Cheshire with older records from Shropshire.

A single female was encountered at Central Moss SJ58526574, a known site.

***Cordilura rufimana*** Nationally Notable

A dung fly of wetlands including sphagnum bogs, larvae probably developing in the stems of sedges. Records from Wales, Midland and northern England and Scotland. Adults recorded between April and August.

Recorded from Barnsbridge Basin SJ54207190 on 1<sup>st</sup> July and Lily Pool SJ59556929 on 4<sup>th</sup> July.



## Beetles

**Ten-spotted pot beetle *Cryptocephalus decemmaculatus*** Nationally Rare, Red-list Endangered, S41 Priority species.

An attractively marked leaf beetle, larvae feeding on willows and birches in wet areas. Wybunbury Moss in Cheshire supports the largest population, with another population in Perthshire.

One was swept from willow at Wybunbury Moss, SJ69505026 a known site.

***Hyperaspis pseudopustulata*** Nationally Notable category B

A small ladybird, predator of scale insects and aphids. Found in a variety of wetland habitats from saltings and coastal marshes to the margins of inland ponds and lakes, usually found in moss or other low vegetation. Widespread but very local in Britain.

One was found at Lily Pool, SJ59556929.

***Gymnusa brevicollis***

An aleocharine rove beetle associated with sphagnum, scattered records across Britain and Ireland.

Recorded at Hogshead Moss SJ58446946 on 4<sup>th</sup> July and Shemmy Moss SJ59506881 on 25<sup>th</sup> July. Preliminary investigations suggest that there are no modern Cheshire records, although it is mentioned in Sharp, 1908.

***Chaetarthria simillima*** Nationally Scarce

A minute water scavenger beetle. Only recently separated from *Chaetarthria seminulum*, this species may be the more frequent of the two, which can only be reliably separated by reference to male genitalia.

A male beetle thought to be this species was taken at Black Lake on 28<sup>th</sup> June. A beetle belonging to the genus was encountered at Lily Pool but was a female so couldn't be identified.

## True bugs

***Chartoscirta cocksi*** Nationally Scarce

A small predatory bug of sphagnum and grass tussocks in bogs. Scattered distribution with most records coming from Wales.

One recorded from Lily Pool SJ59556929 on 4<sup>th</sup> July, a nymph thought to be this species was recorded from Flaxmere SJ55657232 on 5<sup>th</sup> July.

### ***Globiceps juniperi*** Nationally Notable category B

Scattered records from England and Scotland, mainly from midlands and north but one record from Surrey. Recorded from bell heather, heather and willow.

Swept from bog myrtle at Hatchmere SJ55247205 on 1<sup>st</sup> July.

### **Tortoise bug *Eurygaster testudinaria***

A common shieldbug in England and Wales as far as Yorkshire, spreading northwards.

One swept from bottle sedge at Hatchmere SJ55237206, this represents the first record for Cheshire.

## Acknowledgements

Huge thanks to Gary Hedges for all the preliminary work, drawing up the list of potential locations, arranging access to the sites and numerous other aspects of organisation. Thanks to Andrew Grayson for invaluable information regarding parking locations, detailed information regarding habitat and routes in and out of sites. Chris Eckton provided transport to Black Lake.

## All invertebrate records generated during surveys

Species	Species group	Location	Map ref.	Date
<i>Phyllotreta undulata</i>	Beetle	Barnsbridge Basin	SJ54207190	01/07/2022
<i>Bembidion lunulatum</i>	Beetle	Barnsbridge Basin	SJ54207190	01/07/2022
<i>Pterostichus diligens</i>	Beetle	Barnsbridge Basin	SJ54207190	01/07/2022
<i>Stenus nitidiusculus</i>	Beetle	Barnsbridge Basin	SJ54207190	01/07/2022
<i>Lathrobium fulvipenne</i>	Beetle	Barnsbridge Basin	SJ54207190	01/07/2022
<i>Ilybius guttiger</i>	Beetle	Barnsbridge Basin	SJ54207190	01/07/2022
<i>Agabus bipustulatus</i>	Beetle	Barnsbridge Basin	SJ54207190	01/07/2022
<i>Harmonia axyridis</i>	Beetle	Barnsbridge Basin	SJ542719	01/07/2022
<i>Myrmica scabrinodis</i>	Hymenopteran	Barnsbridge Basin	SJ54207190	01/07/2022
<i>Stephanitis takeyai</i>	True bug	Barnsbridge Basin	SJ54207189	01/07/2022



Species	Species group	Location	Map ref.	Date
<i>Hebrus (Hebrusella) ruficeps</i>	True bug	Barnsbridge Basin	SJ54227190	01/07/2022
<i>Cordilura rufimana</i>	True fly	Barnsbridge Basin	SJ54207190	01/07/2022
<i>Phylidorea squalens</i>	True fly	Barnsbridge Basin	SJ54207190	01/07/2022
<i>Helophilus pendulus</i>	True fly	Barnsbridge Basin	SJ542719	01/07/2022
<i>Hybomitra distinguenda</i>	True fly	Basin Mire N3	SJ54907205	01/07/2022
<i>Lathrobium rufipenne</i>	Beetle	Black Lake	SJ53757093	28/06/2022
<i>Lathrobium brunnipes</i>	Beetle	Black Lake	SJ53747094	28/06/2022
<i>Lathrobium terminatum</i>	Beetle	Black Lake	SJ53747094	28/06/2022
<i>Helochares punctatus</i>	Beetle	Black Lake	SJ53747094	28/06/2022
<i>Chaetarhria simillima</i>	Beetle	Black Lake	SJ53747094	28/06/2022
<i>Chloromyia formosa</i>	True fly	Black lake	SJ53767098	28/06/2022
<i>Lochmaea suturalis</i>	Beetle	East Moss	SJ58656571	21/06/2022
<i>Myrmica scabrinodis</i>	Hymenopteran	East Moss	SJ58526574	21/06/2022
<i>Myrmeleotettix maculatus</i>	Orthopteran	East Moss	SJ58606569	21/06/2022
<i>Pithanus maerkelii</i>	True bug	East Moss	SJ58576567	21/06/2022
<i>Kleidocerys ericae</i>	True bug	East Moss	SJ58546571	21/06/2022
<i>Atylotus plebeius</i>	True fly	East Moss	SJ58526574	21/06/2022
<i>Hybomitra bimaculata</i>	True fly	East Moss	SJ58526574	21/06/2022
<i>Chloromyia formosa</i>	True fly	East Moss	SJ58616570	21/06/2022
<i>Oulema melanopus s.str.</i>	Beetle	Flaxmere	SJ55657232	05/07/2022
<i>Anacaena globulus</i>	Beetle	Flaxmere	SJ55657232	25/07/2022
<i>Luperus longicornis</i>	Beetle	Flaxmere	SJ55617229	05/07/2022
<i>Oedemera nobilis</i>	Beetle	Flaxmere	SJ55647227	15/06/2022
<i>Agelastica alni</i>	Beetle	Flaxmere	SJ556722	15/06/2022
<i>Harmonia axyridis</i>	Beetle	Flaxmere	SJ556722	15/06/2022
<i>Coccinella septempunctata</i>	Beetle	Flaxmere	SJ55637224	15/06/2022
<i>Lochmaea suturalis</i>	Beetle	Flaxmere	SJ55637225	15/06/2022
<i>Ochlodes sylvanus</i>	Lepidopteran	Flaxmere	SJ58766578	15/06/2022
<i>Orthetrum cancellatum</i>	Odonata	Flaxmere	SJ55627228	05/07/2022
<i>Libellula quadrimaculata</i>	Odonata	Flaxmere	SJ55637228	05/07/2022
<i>Enallagma cyathigerum</i>	Odonata	Flaxmere	SJ5572	15/06/2022
<i>Bombus pratorum</i>	Hymenopteran	Flaxmere	SJ55647226	15/06/2022
<i>Bombus lucorum sensu lato</i>	Hymenopteran	Flaxmere	SJ55637224	07/06/2022
<i>Autographa gamma</i>	Lepidopteran	Flaxmere	SJ556723	15/06/2022
<i>Diacrisia sannio</i>	Lepidopteran	Flaxmere	SJ557722	15/06/2022
<i>Ematurga atomaria</i>	Lepidopteran	Flaxmere	SJ557722	15/06/2022
<i>Omocestus viridulus</i>	Orthopteran	Flaxmere	SJ55697233	15/06/2022

Species	Species group	Location	Map ref.	Date
<i>Rhacognathus punctatus</i>	True bug	Flaxmere	SJ55657232	15/06/2022
<i>Chartoscirta cocksii</i>	True bug	Flaxmere	SJ55657232	05/07/2022
<i>Pithanus maerkelii</i>	True bug	Flaxmere	SJ55617229	05/07/2022
<i>Ulopa reticulata</i>	True bug	Flaxmere	SJ55617229	05/07/2022
<i>Philaenus spumarius</i>	True bug	Flaxmere	SJ55687232	15/06/2022
<i>Hebrus (Hebrusella) ruficeps</i>	True bug	Flaxmere	SJ55697234	15/06/2022
<i>Kleidocerys ericae</i>	True bug	Flaxmere	SJ55647226	15/06/2022
<i>Cixius nervosus</i>	True bug	Flaxmere	SJ55647226	15/06/2022
<i>Ulopa reticulata</i>	True bug	Flaxmere	SJ55647226	15/06/2022
<i>Chrysotoxum festivum</i>	True fly	Flaxmere	SJ55587227	05/07/2022
<i>Cordilura ciliata</i>	True fly	Flaxmere	SJ55617227	05/07/2022
<i>Eristalis intricarius</i>	True fly	Flaxmere	SJ55637227	05/07/2022
<i>Helophilus pendulus</i>	True fly	Flaxmere	SJ55647226	15/06/2022
<i>Nemastoma bimaculatum</i>	Harvestman	Gull Moss	SJ600687	25/07/2022
<i>Trichocellus placidus</i>	Beetle	Gull Moss	SJ60116869	25/07/2022
<i>Acupalpus parvulus</i>	Beetle	Gull Moss	SJ60146869	25/07/2022
<i>Anotylus rugosus</i>	Beetle	Gull Moss	SJ60146869	25/07/2022
<i>Microcara testacea</i>	Beetle	Gull Moss	SJ60146869	25/07/2022
<i>Agabus affinis</i>	Beetle	Gull Moss	SJ60146869	25/07/2022
<i>Ilybius guttiger</i>	Beetle	Gull Moss	SJ60146869	25/07/2022
<i>Bembidion lunulatum</i>	Beetle	Gull Moss	SJ60146869	25/07/2022
<i>Philonthus cognatus</i>	Beetle	Gull Moss	SJ60146869	25/07/2022
<i>Stenus lustrator</i>	Beetle	Gull Moss	SJ60146869	25/07/2022
<i>Ochtheophilum fracticorne</i>	Beetle	Gull Moss	SJ60146869	25/07/2022
<i>Sympetrum striolatum</i>	Odonata	Gull Moss	SJ600687	25/07/2022
<i>Enallagma cyathigerum</i>	Odonata	Gull Moss	SJ600687	25/07/2022
<i>Lestes sponsa</i>	Odonata	Gull Moss	SJ600687	25/07/2022
<i>Drymus (Sylvadrymus) sylvaticus</i>	True bug	Gull Moss	SJ60136869	25/07/2022
<i>Chartoscirta cincta</i>	True bug	Gull Moss	SJ60146869	25/07/2022
<i>Lamproplax picea</i>	True bug	Gull Moss	SJ60146869	25/07/2022
<i>Cixius nervosus</i>	True bug	Gull Moss	SJ60116870	25/07/2022
<i>Cicadella viridis</i>	True bug	Gull Moss	SJ601686	25/07/2022
<i>Philaenus spumarius</i>	True bug	Gull Moss	SJ60106871	25/07/2022
<i>Lamproplax picea</i>	True bug	Gull Moss	SJ60076873	25/07/2022
<i>Sphenella marginata</i>	True fly	Gull Moss	SJ60116869	25/07/2022
<i>Cordilura ciliata</i>	True fly	Gull Moss	SJ6068	25/07/2022
<i>Araniella cucurbitina sensu lato</i>	Spider	Gull Moss	SJ60076872	25/07/2022
<i>Loricera pilicornis</i>	Beetle	Hatchmere	SJ55237205	02/07/2022
<i>Leptura quadrifasciata</i>	Beetle	Hatchmere	SJ55207207	01/07/2022
<i>Propylea quattuordecimpunctata</i>	Beetle	Hatchmere	SJ55217201	01/07/2022
<i>Malachius bipustulatus</i>	Beetle	Hatchmere	SJ552720	01/07/2022



Species	Species group	Location	Map ref.	Date
<i>Lochmaea suturalis</i>	Beetle	Hatchmere	SJ55117188	01/07/2022
<i>Apis mellifera</i>	Hymenopteran	Hatchmere	SJ553722	07/06/2022
<i>Andrena haemorrhoa</i>	Hymenopteran	Hatchmere	SJ55397220	07/06/2022
<i>Eurygaster testudinaria</i>	True bug	Hatchmere	SJ55237206	01/07/2022
<i>Stenodema</i> <i>(Stenodema) holsata</i>	True bug	Hatchmere	SJ55207201	01/07/2022
<i>Stenodema</i> <i>(Brachystira) calcarata</i>	True bug	Hatchmere	SJ55207198	01/07/2022
<i>Ulopa reticulata</i>	True bug	Hatchmere	SJ55197194	01/07/2022
<i>Hebrus (Hebrusella)</i> <i>ruficeps</i>	True bug	Hatchmere	SJ54927212	01/07/2022
<i>Grypocoris</i> <i>(Lophyromiris) stysi</i>	True bug	Hatchmere	SJ5572	01/07/2022
<i>Platycheirus</i> <i>granditarsus</i>	True fly	Hatchmere	SJ55257185	01/07/2022
<i>Chrysogaster solstitialis</i>	True fly	Hatchmere	SJ550720	01/07/2022
<i>Cheilosia illustrata</i>	True fly	Hatchmere	SJ550720	01/07/2022
<i>Leucozona glaucia</i>	True fly	Hatchmere	SJ550720	01/07/2022
<i>Tachina fera</i>	True fly	Hatchmere	SJ55397221	07/06/2022
<i>Lathrobium</i> <i>terminatum</i>	Beetle	Hatchmere 1	SJ55187196	01/07/2022
<i>Pterostichus rhaeticus</i>	Beetle	Hatchmere 1	SJ55187196	01/07/2022
<i>Pterostichus minor</i>	Beetle	Hatchmere 1	SJ55187196	01/07/2022
<i>Philorhizus</i> <i>melanocephalus</i>	Beetle	Hatchmere 1	SJ55187196	01/07/2022
<i>Tachyerges stigma</i>	Beetle	Hatchmere 2	SJ55247205	01/07/2022
<i>Rhamphus pulicarius</i>	Beetle	Hatchmere 2	SJ55247205	01/07/2022
<i>Orchestes rusci</i>	Beetle	Hatchmere 2	SJ55247205	01/07/2022
<i>Lathrobium</i> <i>terminatum</i>	Beetle	Hatchmere 2	SJ55247205	01/07/2022
<i>Limnobaris dolorosa</i>	Beetle	Hatchmere 2	SJ55247205	01/07/2022
<i>Loricera pilicornis</i>	Beetle	Hatchmere 2	SJ55247205	01/07/2022
<i>Agonum gracile</i>	Beetle	Hatchmere 2	SJ55247205	01/07/2022
<i>Agabus affinis</i>	Beetle	Hatchmere 2	SJ55247205	01/07/2022
<i>Dryophilus pusillus</i>	Beetle	Hatchmere 2	SJ55247205	01/07/2022
<i>Cantharis nigra</i>	Beetle	Hatchmere 2	SJ55247205	01/07/2022
<i>Cantharis flavilabris</i>	Beetle	Hatchmere 2	SJ55247205	01/07/2022

Species	Species group	Location	Map ref.	Date
<i>Philonthus nigrita</i>	Beetle	Hatchmere 2	SJ55247205	01/07/2022
<i>Stenus similis</i>	Beetle	Hatchmere 2	SJ55247205	01/07/2022
<i>Hydrobius fuscipes</i>	Beetle	Hatchmere 2	SJ55247205	01/07/2022
<i>Trypoxylon attenuatum</i>	Hymenopteran	Hatchmere 2	SJ55247205	01/07/2022
<i>Globiceps (Kelidocoris) juniperi</i>	True bug	Hatchmere 2	SJ55247205	01/07/2022
<i>Cymus glandicolor</i>	True bug	Hatchmere 2	SJ55247205	01/07/2022
<i>Pachybrachius fracticollis</i>	True bug	Hatchmere 2	SJ55247205	01/07/2022
<i>Hebrus (Hebrusella) ruficeps</i>	True bug	Hatchmere 2	SJ55247205	01/07/2022
<i>Neoascia geniculata</i>	True fly	Hatchmere 2	SJ55247205	01/07/2022
<i>Cordilura ciliata</i>	True fly	Hatchmere 2	SJ55247205	01/07/2022
<i>Ilybius fuliginosus</i>	Beetle	Hogshead Moss	SJ58446946	04/07/2022
<i>Agonum gracile</i>	Beetle	Hogshead Moss	SJ58446946	04/07/2022
<i>Plateumaris discolor</i>	Beetle	Hogshead Moss	SJ58446946	04/07/2022
<i>Enochrus ochropterus</i>	Beetle	Hogshead Moss	SJ58446946	04/07/2022
<i>Gymnusa brevicollis</i>	Beetle	Hogshead Moss	SJ58446946	04/07/2022
<i>Philonthus nigrita</i>	Beetle	Hogshead Moss	SJ58446946	04/07/2022
<i>Hydrobius fuscipes</i>	Beetle	Hogshead Moss	SJ58446946	04/07/2022
<i>Anisosticta novemdecimpunctata</i>	Beetle	Hogshead Moss	SJ58436947	04/07/2022
<i>Pachybrachius fracticollis</i>	True bug	Hogshead Moss	SJ58436946	04/07/2022
<i>Leptus trimaculatus</i>	Mite	Lily Pool	SJ59546927	04/07/2022
<i>Bradycellus harpalinus</i>	Beetle	Lily Pool	SJ59556929	12/08/2022
<i>Philonthus cruentatus</i>	Beetle	Lily Pool	SJ59556929	12/08/2022
<i>Lathrobium terminatum</i>	Beetle	Lily Pool	SJ59556929	12/08/2022
<i>Lathrobium rufipenne</i>	Beetle	Lily Pool	SJ59556929	04/07/2022
<i>Lathrobium terminatum</i>	Beetle	Lily Pool	SJ59556929	04/07/2022
<i>Hyperaspis pseudopustulata</i>	Beetle	Lily Pool	SJ59556929	04/07/2022
<i>Scirtes hemisphaericus</i>	Beetle	Lily Pool	SJ59556929	04/07/2022



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<i>Enochrus affinis</i>	Beetle	Lily Pool	SJ59556929	04/07/2022
<i>Pterostichus rhaeticus</i>	Beetle	Lily Pool	SJ59556929	04/07/2022
<i>Coccinella septempunctata</i>	Beetle	Lily Pool	SJ59546927	04/07/2022
<i>Micrelus ericae</i>	Beetle	Lily Pool	SJ59546927	04/07/2022
<i>Lestes sponsa</i>	Odonata	Lily Pool	SJ59546927	04/07/2022
<i>Enallagma cyathigerum</i>	Odonata	Lily Pool	SJ59536927	04/07/2022
<i>Myrmica scabrinodis</i>	Hymenopteran	Lily Pool	SJ59556929	04/07/2022
<i>Ceramica pisi</i>	Lepidopteran	Lily Pool	SJ59596920	12/08/2022
<i>Orgyia antiqua</i>	Lepidopteran	Lily Pool	SJ59556929	04/07/2022
<i>Chartoscirta cocksii</i>	True bug	Lily Pool	SJ59556929	04/07/2022
<i>Lamproplax picea</i>	True bug	Lily Pool	SJ59556929	04/07/2022
<i>Pachybrachius fracticollis</i>	True bug	Lily Pool	SJ59556929	04/07/2022
<i>Philaenus spumarius</i>	True bug	Lily Pool	SJ59546927	04/07/2022
<i>Cordilura rufimana</i>	True fly	Lily Pool	SJ59556929	04/07/2022
<i>Haematopota pluvialis</i>	True fly	Lily Pool	SJ59566929	04/07/2022
<i>Sitticus floricola</i>	Spider	Lily Pool	SJ595692	12/08/2022
<i>Sitticus floricola</i>	Spider	Lily Pool	SJ5969	04/07/2022
<i>Philonthus nigrita</i>	Beetle	Mire N3, Delamere	SJ54917205	12/08/2022
<i>Pterostichus minor</i>	Beetle	Mire N3, Delamere	SJ54917205	12/08/2022
<i>Lathrobium terminatum</i>	Beetle	Mire N3, Delamere	SJ54917205	12/08/2022
<i>Pterostichus rhaeticus</i>	Beetle	Mire N3, Delamere	SJ54917205	12/08/2022
<i>Stenus cicindeloides</i>	Beetle	Mire N3, Delamere	SJ54917205	01/07/2022
<i>Stenus fulvicornis</i>	Beetle	Mire N3, Delamere	SJ54917205	01/07/2022
<i>Hybomitra distinguenda</i>	True fly	Mire N3, Delamere	SJ54917205	01/07/2022
<i>Neoascia meticulosa</i>	True fly	Mire N3, Delamere	SJ54917205	01/07/2022
<i>Lathrobium terminatum</i>	Beetle	Shemmy Moss	SJ59446886	25/07/2022
<i>Cyphon hilaris</i>	Beetle	Shemmy Moss	SJ59446886	25/07/2022
<i>Gymnusa brevicollis</i>	Beetle	Shemmy Moss	SJ59506881	25/07/2022
<i>Lathrobium rufipenne</i>	Beetle	Shemmy Moss	SJ59526878	25/07/2022
<i>Chartoscirta cincta</i>	True bug	Shemmy Moss	SJ59506881	25/07/2022
<i>Lamproplax picea</i>	True bug	Shemmy Moss	SJ59536877	25/07/2022

Species	Species group	Location	Map ref.	Date
<i>Linnaemya vulpina</i>	True fly	Shemmy Moss	SJ59506881	25/07/2022
<i>Cymbiodyta marginellus</i>	Beetle	South Moss	SJ59376864	25/07/2022
<i>Ilybius guttiger</i>	Beetle	South Moss	SJ59376864	25/07/2022
<i>Helochares punctatus</i>	Beetle	South Moss	SJ59376864	25/07/2022
<i>Pterostichus diligens</i>	Beetle	South Moss	SJ59376864	25/07/2022
<i>Ochtheophilum fracticorne</i>	Beetle	South Moss	SJ59376864	25/07/2022
<i>Amara aenea</i>	Beetle	South Moss	SJ59376864	25/07/2022
<i>Peritrechus geniculatus</i>	True bug	South Moss	SJ59376864	25/07/2022
<i>Lamproplax picea</i>	True bug	South Moss	SJ59446871	25/07/2022
<i>Pachybrachius fracticollis</i>	True bug	South Moss	SJ59446870	25/07/2022
<i>Plateumaris discolor</i>	Beetle	Whitehall Moss	SJ58786579	21/06/2022
<i>Agabus bipustulatus</i>	Beetle	Whitehall Moss	SJ58786579	21/06/2022
<i>Enochrus ochropterus</i>	Beetle	Whitehall Moss	SJ58786579	21/06/2022
<i>Pterostichus rhaeticus</i>	Beetle	Whitehall Moss	SJ58786579	21/06/2022
<i>Pterostichus diligens</i>	Beetle	Whitehall Moss	SJ58786579	21/06/2022
<i>Bembidion lunulatum</i>	Beetle	Whitehall Moss	SJ58786579	21/06/2022
<i>Philonthus nigrita</i>	Beetle	Whitehall Moss	SJ58786579	21/06/2022
<i>Amara aenea</i>	Beetle	Whitehall Moss	SJ58786579	21/06/2022
<i>Lochmaea suturalis</i>	Beetle	Whitehall Moss	SJ58776576	21/06/2022
<i>Micrelus ericae</i>	Beetle	Whitehall Moss	SJ587657	21/06/2022
<i>Ochlodes sylvanus</i>	Lepidopteran	Whitehall Moss	SJ58786577	21/06/2022
<i>Ochlodes sylvanus</i>	Lepidopteran	Whitehall Moss	SJ58786577	15/06/2022
<i>Pemphredon lugubris</i>	Hymenopteran	Whitehall Moss	SJ58786579	21/06/2022
<i>Formica lemani</i>	Hymenopteran	Whitehall Moss	SJ58786579	21/06/2022
<i>Cymus melanocephalus</i>	True bug	Whitehall Moss	SJ58786579	21/06/2022
<i>Nabis (Nabis) ferus</i>	True bug	Whitehall Moss	SJ58786579	21/06/2022
<i>Bryocoris pteridis</i>	True bug	Whitehall Moss	SJ58786579	21/06/2022



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<i>Pachybrachius fracticollis</i>	True bug	Whitehall Moss	SJ58786579	21/06/2022
<i>Hebrus (Hebrusella) ruficeps</i>	True bug	Whitehall Moss	SJ58786579	21/06/2022
<i>Hebrus (Hebrusella) ruficeps</i>	True bug	Whitehall Moss	SJ58796578	21/06/2022
<i>Riponnensia splendens</i>	True fly	Whitehall Moss	SJ58786579	21/06/2022
<i>Microdon myrmicae</i>	True fly	Whitehall Moss	SJ58786579	21/06/2022
<i>Chrysotoxum festivum</i>	True fly	Whitehall Moss	SJ58786579	21/06/2022
<i>Sargus iridatus</i>	True fly	Whitehall Moss	SJ58786579	21/06/2022
<i>Dolichopus brevipennis</i>	True fly	Whitehall Moss	SJ58786579	21/06/2022
<i>Dicranomyia fusca</i>	True fly	Whitehall Moss	SJ58786579	21/06/2022
<i>Idioptera linnei</i>	True fly	Whitehall Moss	SJ58786579	21/06/2022
<i>Microdon mutabilis sens.lat.</i>	True fly	Whitehall Moss	SJ587657	21/06/2022
<i>Idioptera linnei</i>	True fly	Whitehall Moss	SJ58786577	21/06/2022
<i>Sericomyia silentis</i>	True fly	Whitehall Moss	SJ58786577	21/06/2022
<i>Sitticus floricola</i>	Spider	Whitehall Moss	SJ58786577	21/06/2022
<i>Evarcha falcata</i>	Spider	Whitehall Moss	SJ58786579	21/06/2022
<i>Rhyzobius litura</i>	Beetle	Wybunbury 1	SJ69415024	07/06/2022
<i>Rutpela maculata</i>	Beetle	Wybunbury 1	SJ692501	07/06/2022
<i>Harmonia axyridis</i>	Beetle	Wybunbury 1	SJ693502	07/06/2022
<i>Phaedon tumidulus</i>	Beetle	Wybunbury 1	SJ694500	07/06/2022
<i>Nedyus quadrimaculatus</i>	Beetle	Wybunbury 1	SJ69305020	07/06/2022
<i>Bombus pratorum</i>	Hymenopteran	Wybunbury 1	SJ69415024	07/06/2022
<i>Bombus vestalis</i>	Hymenopteran	Wybunbury 1	SJ69395024	07/06/2022
<i>Andrena scotica</i>	Hymenopteran	Wybunbury 1	SJ69315023	07/06/2022
<i>Petrophora chlorosata</i>	Lepidopteran	Wybunbury 1	SJ69395025	07/06/2022

Species	Species group	Location	Map ref.	Date
<i>Anthophila fabriciana</i>	Lepidopteran	Wybunbury 1	SJ69325021	07/06/2022
<i>Chrysogaster solstitialis</i>	True fly	Wybunbury 1	SJ69415024	07/06/2022
<i>Tipula maxima</i>	True fly	Wybunbury 1	SJ693502	07/06/2022
<i>Scathophaga stercoraria</i>	True fly	Wybunbury 1	SJ693502	07/06/2022
<i>Eristalis horticola</i>	True fly	Wybunbury 1	SJ692501	07/06/2022
<i>Xylota sylvarum</i>	True fly	Wybunbury 1	SJ69315024	07/06/2022
<i>Eristalis pertinax</i>	True fly	Wybunbury 1	SJ693502	07/06/2022
<i>Cryptocephalus decemmaculatus</i>	Beetle	Wybunbury 2	SJ69505026	07/06/2022
<i>Denticollis linearis</i>	Beetle	Wybunbury 2	SJ69485024	07/06/2022
<i>Oedemera lurida</i>	Beetle	Wybunbury 2	SJ694502	07/06/2022
<i>Agapanthia villosviridescens</i>	Beetle	Wybunbury 2	SJ69435025	07/06/2022
<i>Gonepteryx rhamni</i>	Lepidopteran	Wybunbury 2	SJ69445025	07/06/2022
<i>Ochlodes sylvanus</i>	Lepidopteran	Wybunbury 2	SJ69445024	07/06/2022
<i>Pyrrhosoma nymphula</i>	Odonata	Wybunbury 2	SJ69445025	07/06/2022
<i>Chrysopilus cristatus</i>	True fly	Wybunbury 2	SJ69435024	07/06/2022
<i>Volucella bombylans</i>	True fly	Wybunbury 2	SJ69445025	07/06/2022
<i>Platycheirus granditarsus</i>	True fly	Wybunbury 2	SJ694502	07/06/2022
<i>Sericomyia lappona</i>	True fly	Wybunbury 2	SJ69435024	07/06/2022
<i>Helophilus pendulus</i>	True fly	Wybunbury 2	SJ69425024	07/06/2022
<i>Micrelus ericae</i>	Beetle	Wybunbury 3	SJ69565021	07/06/2022
<i>Agelastica alni</i>	Beetle	Wybunbury 3	SJ695502	07/06/2022
<i>Libellula quadrimaculata</i>	Odonata	Wybunbury 3	SJ69575021	07/06/2022
<i>Ematurga atomaria</i>	Lepidopteran	Wybunbury 3	SJ69535025	07/06/2022
<i>Chloromyia formosa</i>	True fly	Wybunbury 3	SJ69535025	07/06/2022

Species	Species group	Location	Map ref.	Date
<i>Cyphon hilaris</i>	Beetle	Wybunbury 4	SJ69575021	07/06/2022
<i>Actenicerus sjaelandicus</i>	Beetle	Wybunbury 4	SJ69575021	07/06/2022
<i>Hydroporus tristis</i>	Beetle	Wybunbury 4	SJ69575021	07/06/2022
<i>Coelostoma orbiculare</i>	Beetle	Wybunbury 4	SJ69575021	07/06/2022
<i>Helochares punctatus</i>	Beetle	Wybunbury 4	SJ69575021	07/06/2022
<i>Enochrus affinis</i>	Beetle	Wybunbury 4	SJ69575021	07/06/2022
<i>Pterostichus diligens</i>	Beetle	Wybunbury 4	SJ69575021	07/06/2022
<i>Pterostichus nigrita</i>	Beetle	Wybunbury 4	SJ69575021	07/06/2022
<i>Limnobaris dolorosa</i>	Beetle	Wybunbury 4	SJ69575021	07/06/2022
<i>Lathrobium rufipenne</i>	Beetle	Wybunbury 4	SJ69575021	07/06/2022
<i>Myrmica scabrinodis</i>	Hymenopteran	Wybunbury 4	SJ69575021	07/06/2022
<i>Hebrus (Hebrusella) ruficeps</i>	True bug	Wybunbury 4	SJ69575021	07/06/2022
<i>Acalypta parvula</i>	True bug	Wybunbury 4	SJ69575021	07/06/2022
<i>Riponnensia splendens</i>	True fly	Wybunbury 4	SJ69575021	07/06/2022
<i>Idioptera linnei</i>	True fly	Wybunbury 4	SJ69575021	07/06/2022
<i>Chalcosyrphus nemorum</i>	True fly	Wybunbury 4	SJ69575021	07/06/2022
<i>Gnaphosa nigerrima</i>	Spider	Wybunbury 4	SJ69575021	07/06/2022



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