

SPEN MOOR & DOFFERFOLD INVERTEBRATE SURVEY 2022 + 2020/2021. SURVEY OF MEADOWLAND AND WETLAND. REISSUE OF REPORT OF OCTOBER 2022 IN FRESH FORMAT.

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Methods

Survey work of the meadowland and hedgerows commenced in fine weather on 25/05/2022 and ended 01/06/2022, prior to the hay crop. A canvas bag was used to sweep vegetation and the samples were sorted in the bag and on a tray. A single visit was made to each plot. A vacuum survey was not carried out, but this would have gained additional results. From late autumn to spring 2020-2021 the ponds were visited once and sampled with a pond net. Included are 6 taxa carried over from earlier pond surveys as the habitat is unchanged.

The table below is a summary of the spreadsheet records. The meadowland survey missed the high summer and autumn invertebrate activity, but it is a useful survey in that all of the other meadowland surveys in the Elton Reservoir Basin have been carried out in the autumn. The survey represents a fraction of what could be present. A handful of recent records are supplied by wildlife photographers.

The site

The site includes ponds and semi-improved grassland with hedges. Higher Spen Moor Farm has diversified some hedges with additional planting. Even those grasslands which have been ploughed and reseeded have abundant Red Clover and Buttercup and insect life is notable on sunny summer days.

** Brown Hare are abundant in the fields of Higher Spen Moor, Middle Spen Moor, Brookbottom Farm and Dofferfold and across to Old Hall Farm.

** Lapwing breed in good numbers from Higher Spen Moor to Brookbottom Farm, and several nests can be found in the improved grassland. The farmer at Brookbottom marks the nests and ushers young birds from each field prior to the harvest.

**Flocks of Snipe and Teal and occasional Jack Snipe use the wetlands. The Elton Reservoir Basin is an oasis in the middle of the conurbation and thus attracts many migrating birds. Waterbirds in such huge numbers are agents of colonisation of e.g. pond snails, and these must account for the presence of *Gyraulus laevis* the Smooth Ramshorn in a new pond dug next to Tudor Grange.

** Waxcap fungi can be found in good number in two fields, at Higher Spen Moor and at Dofferfold.

** The area includes a Bluebell clough woodland of native trees and several veteran English Oaks dotted on the field boundaries dating to pre 1767.

** there are a number of Great Crested Newt breeding ponds, along with Smooth Newt Palmate Newt, Frog and Toad. There are several four and five species breeding ponds, all overlooked by ERAP.

**Otter footprints were found 2023 on The Creek Brook on a sand bar below the footpath north east of Lower Spen Moor house.

** The site is crossed by the Roman Road and one of the streams still runs along the western boundary ditch of the road. Some elements of the pre 1767 landscape remain including a green lane west of Higher Spen Moor Farm, some old stone gateposts at Higher Spen Moor Farm, and a suite of boundary marker posts hugging the canal estate boundary inscribed M B & B CL & RY CO 1842.

Results

475 taxa were recorded:

The nine Scarce species (**red** on the species list below):

<i>Gyraulus laevis</i>	Smooth Ramshorn	Nationally Scarce
<i>Allomengea vidua</i>	Complex Money Spider	Nationally Scarce
<i>Ceriodaphnia setosa</i> *	Prickled Small-headed Water Flea	Rare
<i>Ilybius subaeneus</i>	Red-bellied Black Diving Beetle	Nationally Scarce
<i>Helochares punctatus</i>	Dark Bog Helochares Beetle	Nationally Scarce
<i>Agelastica alni</i>	Alder Leaf Beetle	Red Data Book Nationally Rare
<i>Stenus pusillus</i>	2-hollowed Camphor Beetle	Nationally Notable B
<i>Oxystoma cerdo</i>	Pinch-nosed Apion Weevil	Nationally Notable B
<i>Symphoromyia crassicornis</i>	Moorland Snipefly	Nationally Scarce

*1 of the above is a Greater Manchester first site record.

31 additional taxa are Greater Manchester first records only so far recorded in Elton Reservoir area (**amber** on the species list). A few of the species have rather to very old Greater Manchester records.

84 additional taxa have, to date, been recorded in 1-4 other Greater Manchester sites (**green** on the species list). Just one other known site shifts the record to green.

The national status, Greater Manchester status from records, and for comparison, Cheshire status from records are given. NBN Atlas, iRecord, rECOrd, JNCC Taxon List, taxa websites and own dataset was consulted. Amber County Notable NC taxa reevaluated January 2024.

Additionally the habitat requirements of all species is given.

Discussion

The species list has plenty of species associated with the flower meadow, pasture and dung, and rough habitat of the grasslands and of the hedgerows.

The wetlands and their margins are very important to invertebrates. Given many of the ponds are interlinked with drains and are fed from tile drains crossing the fields any impact on the drainage sheds will harm the wetlands.

The Nationally Scarce Smooth Ramshorn *Gyraulus laevis* is in severe decline and records shown on NBN Atlas in the NW region are very old records, mostly pre 1916 to mid 1800s. The one at Manchester Airport from 1994 is an input error.

The Nationally Scarce Moorland Snipefly *Symphoromyia crassicornis* was taken on Higher Spen Moor, in the damp fields. A look at recent records for this species are all from the Pennines, Yorkshire Dales, Lake District, North Wales and Scotland, with another record from the West Pennine Moors. Spen Moor clearly retains some of its lowland moorland characteristics. The Nationally Scarce pond beetle *Helochares punctatus* is another moorland survivor.

The leafhopper bug *Ribautiana debilis* has only 78 records on NBN Atlas. There are only two other records in NW England. It favours brambles associated with hedgerows.

Psyllopsis fraxinicola, an Ash-feeding Jumping Pant Louse, is the only record in the NW region.

There are around 41 records of sites with *Hilara albipennis* the Milky Balloon Fly on NBN Atlas, iRecord and rECOrd combined, with 12 known sites in NW England, our record being the only modern Greater Manchester record (well, a museum record card exists from 1921).

There are around 38 records of sites with *Hilara hirtipes* the Bifid-tipped Balloon Fly on NBN Atlas, iRecord and rECOrd combined, with 5 known sites in NW England, our record being the only Greater Manchester record.

There are just 19 records of sites with the Big-headed Fly *Pipunculus campestris* in NW England on NBN Atlas, iRecord and rECOrd, ours being the only Greater Manchester record.

There are just 2 records of sites with the Ensign Fly *Sepsis neocynipsea* in NW England on NBN Atlas, iRecord and rECOrd, ours being the only Greater Manchester record. A pastureland species.

There are just 16 records of sites with *Cleigastra apicalis* the Yellow-legged Reedbed Dung Fly in NW England on NBN Atlas, iRecord and rECOrd, ours being the only Greater Manchester record.

SPEN MOOR & DOFFERFOLD, RADCLIFFE, BURY - INVERTEBRATE SURVEY 2022 - DAVE BENTLEY

POND & MEADOWLAND SURVEY INCLUDING FORMER SPEN MOOR PONDS SBI

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Methods include direct observation, canvas bag netting, beating, shaking, pond netting.

Explanatory notes at foot of table	Broad Habitat	Eng/W Sta-tus	GM Sta-tus	Chesh Sta-tus	Habitat simplified	Habitat per literature	of plots/Samples	
TOTAL INVERTEBRATE TAXA: 475 taxa								
PROTOZOA:								
1 taxa:								
<i>Plumatella cf reptans</i>	Bryzoan	A	NC	NC	Wetland	On logs or plastic waste	1	
LUMBRICIDAE:								
EARTHWORM : 1 species:								
<i>Lumbriculus variegatus</i>	Oligochaete Worm	W	C	C	Wetland	Wetland shallows	3	
HIRUDINEA:								
LEECHES: 7 species:								
<i>Erpobdella octoculata</i>	Swimming Leech	A	C	C	Wetland	Swamps, ponds	4	
<i>Erpobdella testacea</i>	Swamp Leech	A	L	L	Wetland	Swampy ponds/ditches	1	
<i>Glossiphonia complanata</i>	Green Mollusc Leech	A	C	C	Wetland	Streams, ponds, swamps with molluscs	1	
<i>Alboglossiphonia heteroclita</i>	Amber Mollusc Leech	A	C/L	L	Wetland	Lakes, ponds, stream margins with molluscs	1	
<i>Haemopsis sanguisuga</i>	Horse Leech	A	L	C	L	Wetland	Ponds	2
<i>Helobdella stagnalis</i>	Two-eyed White Leech	A	C	C	Wetland	Ponds and wet swamps	2	
<i>Theromyzon tessulatum</i>	Duck Leech	A	C	C	Wetland	Permanent Ponds (attacks waterfowl)	8	
TRICLADIDA:								
FLATWORMS: 3 species:								
<i>Dendrocoelum lacteum</i>	Milky Flatworm	A	C	C	Wetland	Ponds, slow streams	1	
<i>Girardia (Dugesia) tigrina</i>	Tiger Flatworm	A	A	A	Wetland	Streams, lakes	1	
<i>Polycelis nigra</i>	Black Flatworm	A	C	C	Wetland	Lowland streams, lakes, ponds	4	
MOLLUSCA:								
SNAILS, MUSSELS & SLUGS: 33 species:								
<i>Aegopinella nitidula</i>	Smooth Glass Snail	T	C	C	Wood edge	Woods, hedges, gardens, roughs, waste	1	

<i>Cepaea sp</i>							Wood edge		1
<i>Cornu aspersum</i>	Garden Snail	T	A	C	C		Wood edge	Woods, hedges, gardens	1
<i>Monacha cantiana</i>	Pink Kentish Snail	T	A	L	C		Roughs	Roadside, railways, rough ground	3
<i>Oxychilus alliarius</i>	Garlic Snail	T	C	C	C		Wood edge	Widespread + acid woods	1
<i>Trochulus striolatus</i>	Strawberry Snail Pfeiffer's Amber Snail	T	C	C/L	C		Wood edge	Gardens, woods, hedges, roughs	1
<i>Oxyloma elegans</i>		W	C	C	C		Wetland	Wetlands	5
<i>Acroloxus lacustris</i>	Lake Limpet	A	C	C	C		Wetland	Permanent ponds, canals, lakes	1
<i>Bithynia tentaculata</i>	Operculate Snail	A	C	C	C		Wetland	Permanent ponds, canals, lakes	2
<i>Potamopyrgus antipodarum</i>	Jenkin's Spire-snail Whirlpool	A	A	C	C		Wetland	Streams, wetlands with flow usually	3
<i>Anisus vortex</i>	Ramshorn	A	C	C	C		Wetland	Permanent ponds, canals, lakes	7
<i>Bathymphalus contortus</i>	Twisted Ramshorn	A	C	L	L		Wetland	Mostly swampy ponds, also lakes, streams	1
<i>Gyraulus albus</i>	White Ramshorn	A	C	C	C		Wetland	Permanent ponds	2
<i>Gyraulus crista</i>	Nautilus Ramshorn	A	C	C	C		Wetland	Permanent ponds	1
<i>Gyraulus laevis</i>	Smooth Ramshorn	A	NS	NC	VL		Wetland	Clean ponds, lakes, sometimes new waters	1
<i>Planorbarius corneus</i>	Great Ramshorn	A	C	C	C		Wetland	Ponds, canals, lakes	2
<i>Planorbis carinatus</i>	Keeled Ramshorn	A	C	C	C		Wetland	Streams, river, ponds, lakes	2
<i>Galba truncatula</i>	Dwarf Pond Snail American Bladder Snail	W	C	C	C		Wetland	Ponds and marshes with some surface water	5
<i>Physella acuta</i>		A	A	C	C		Wetland	Ponds and ditches	2
<i>Radix auricularia</i>	Ear-pond Snail	A	C/L	C/L	C/L		Wetland	Lakes, canals, large ponds	3
<i>Lymnaea stagnalis</i>	Great Pond Snail	A	C	C	C		Wetland	Lakes, canals, large ponds	4
<i>Ampullaceana balthica</i> (<i>Lym per</i>)	Wandering Snail	A	C	C	C		Wetland	Ponds	7
<i>Stagnicola palustris</i>	Marsh Snail	A	C	C	C		Wetland	Swamps	1
<i>Musculium lacustre</i>	Lake Orb Mussel	A	C	C	C		Wetland	Ponds and wet swamps	5
<i>Sphaerium corneum</i>	Horny Orb Mussel	A	C	C	C		Wetland	Ponds and lakes	2
<i>Pisidium (Euglesa) obtusale</i>	Small-knobbed Pea Mussel	A	C	C?	C		Wetland	Ponds and ditches	1
<i>Pisidium (Euglesa) personatum</i>	Calloused Pea Mussel	A	C	C?	C		Wetland	Ponds and ditches	2
<i>Pisidium (Euglesa) pulchellum</i>	Rough Clavate Pea Mussel	A	C/L	L	L		Wetland	Ponds and ditches	1
<i>Arion flagellus</i>	Green-soled Slug	T	C	C	C		Roughs	Disturbed habitats, rich soils, moors, woods.	1
<i>Arion owenii</i>	Tawny Soil Slug	T	L	NC	NC		Roughs	Damp woods, pasture, roadsides, gardens	1
<i>Deroceras reticulatum</i>	Netted Field Slug Tramp Slug (pale pore)	T	C	C	C		Roughs	All open habitats (not big wetlands)	1
<i>Deroceras invadens</i>		T	A	C	C		Roughs	Disturbed habitats	2
<i>Deroceras laeve</i>	Marsh Slug	W	C	C	C		Wetland	Wetlands, also mountains	1
HYMENOPTERA:	BEES, WASPS, ANTS, SAWFLIES: 22 taxa:								
1 Ant species:									
<i>Lasius niger</i>	Common Hairy-faced Black Ant	T	C	L	C/L		Roughs	Open habitats	2
7 Bee species:									
<i>Andrena cineraria</i>	Ashy Mining Bee	T	C	C	C/L		Wood edge	open woods, moors, river banks, quarries	1
<i>Apis mellifera</i>	Honey Bee	T	A	C	C		Flower meadows	Domesticated; some feral colonies	10
<i>Bombus hypnorum</i>	Tree Bumblebee	T	C	C	C		Wood edge	Open woodland, gardens	10
<i>Bombus lapidarius</i>	Large Red-tailed Bumblebee	T	C	C	C		Flower meadows	Gardens, open countryside, woodland	12

<i>Pachynatha clerki</i>	Tooth-fanged Long-jawed Hunting Spider	W	C	C	C	Wetland	Marshes. By water	2
<i>Tetragnatha extensa</i>	Banded V-marked Long-jawed Web-spinner	W	C	C	C	Wetland	Low veg close to/ over water	12
<i>Tetragnatha montana</i>	Paler solid-coloured Long-jawed Web-spinner	T	C	C	C	Wood edge	Low veg, bushes, trees	7
<i>Neottiura bimaculata</i>	Three-banded Therid Spider	T	C/L	C/L	C	Wood edge	Low veg, bushes, trees	1
<i>Phylloneta sisypbia</i>	Mothercare (net-patterned) Therid Spider	H+	C/L	C/L	C	Wood edge	Gorse + Heather, also scrub + tall herb	4
<i>Philodromus dispar</i>	Dimorphic Running Crab Spider	T	C/L	C/L	C	Wood edge	Vegetation, bushes, lower parts of trees	2
<i>Xysticus cristatus</i>	Common Anchor Crab Spider	T	C	C/L	C	Roughs	Low vegetation but not woodland	1
<i>Allomengea vidua</i>	Complex Money Spider	W	NS	VL	VL	Wetland	Swamp, fen, marsh	1
<i>Baryphyma trifrons</i>	Yellow-legged Dark-bodied Money Spider	W	L	L	VL	Wetland	Fens, marshes, swamps, damp grass, dunes	1
<i>Bathyphantes approximatus</i>	Moustached Money Spider	W	L	C/L	C	Wetland	Ground layer in wetlands/wet woodland	1
<i>Bathyphantes gracilis</i>	Wide-loop Money Spider	T	C	C	C	Roughs	Roughs, heaths, woods, marsh	1
<i>Bathyphantes parvulus</i>	No-loop Money Spider	W+	C/L	L	L	Wetland	Grassland - acid, chalk, heath, marsh	1
<i>Erigone dentipalpis</i>	Armoured Money Spider	T	C	C/L	C	Roughs	All manner of habitats	1
<i>Gnathonarium dentatum</i>	Pelican-palped Money Spider	W	C/L	L	C/L	Wetland	Lowland wetlands, inundation grassland	1
<i>Hypomma bituberculatum</i>	Orange & Grey Yellow-legged Money Spider	W	C	C	C	Wetland	Swamps by rivers & ponds	1
<i>Lophomma punctatum</i>	Punctured Money Spider	W	C/L	L	C/L	Wetland	Carr, bog, Phragmites reedbed	1
<i>Microlinyphia pusilla</i>	Brown spotted Linyphid Spider	W	C	L	C	Wetland	Roughs, damp grassland	1
<i>Oedothorax sp</i>		T						1
<i>Walckenaeria acuminata</i>	a Periscope Money Spider	W	C/L	L	C/L	Wetland	Wood, scrub, heath, wetland	1
<i>Walckenaeria nudipalpis</i>	a Periscope Money Spider	W	C/L	L	C/L	Wetland	Damp wood, moor, marsh, swamp	1
1 Harvestman species:								
<i>Paroligolophus agrestis</i>	Pincered Harvestman	T	C	C	C	Roughs	Most habitats inc woods and roughs	1
MICROCRUSTACEA:		MICROCRUSTACEANS: 5 taxa						
<i>Ceriodaphnia setosa</i>	Prickled Small-headed Water Flea	A	Rare	NC	NC	Wetland	Amongst pondweed	1
<i>Daphnia pulex</i>	Few-spined Water Flea	A	C	C	C	Wetland	Small ponds and ditches	3
<i>Simocephalus expinosus</i>	Blob-eyed Water Flea	A	C	C	C	Wetland	Small ponds and ditches	2
<i>Cyclops spp</i>	Cyclopic Copepods	A				Wetland	Standing waters/wet marshes	3
<i>Cypridopsis vidua</i>	Small Zebra Seed Shrimp	A	C?	C?	C?	Wetland	Small ponds and ditches	1
MALACOSTRACA :		CRUSTACEANS: 6 species:						
<i>Asellus aquaticus</i>	Common Hoglouse	A	C	C	C	Wetland	Wide variety of waterbodies	10
<i>Crangonyx pseudogracilis</i>	American Freshwater Shrimp	A	A	C	C	Wetland	Wide variety of waterbodies	8
<i>Oniscus asellus</i>	Common Shiny Woodlouse	T	C	C	C	Roughs	All damp habitats, woods, logs, gardens	1
<i>Philoscia muscorum</i>	Common Striped Woodlouse (head dot, lateral bands)	T	C	C	C	Roughs	Hedges, roughs, woods, gardens	4
<i>Porcellio scaber</i>	Common Rough Woodlouse	T	C	C	C	Roughs	Wide range, drier than <i>Oniscus</i>	1
<i>Trichoniscus provisorius</i>	Common Pigmy Woodlouse	T	C	C	C	Roughs	Damp soil and deep leaf litter	1

MEGALOPTERA:	LACEWINGS & SCORPION FLIES: 3 taxa:							
<i>Chrysoperla carnea</i>	a Green Lacewing	T	C	L	C	Wood edge	Anywhere aphids found	1
<i>Coniopteryx</i> sp (1 of 5 spp)	Waxwing (female)	T	L	NC	VL	Wood edge	Tall herbage. Foliage.	1
<i>Sialis lutaria</i>	Common Alderfly	A+	C	L	C	Wetland	Ponds with reedswamp and silt	4
EPHEMEROPTERA:	Mayflies: 1 species:							
<i>Cloeon dipterum</i>	Pond Olive Mayfly	A+	C	C	C	Wetland	Ponds	11
TRICHOPTERA:	Caddisflies: 5 species:							
<i>Agapetus fuscipes</i>	Tiny Grey Sedge Caddis	A+	C	C/L	C	Wetland	Stony flows, from trickles to rivers	1
<i>Glyptotaelius pellucidus</i>	Mottled Sedge Caddis	A+	C	C/L	C	Wetland	Still/slow water with fallen leaves	2
<i>Limnephilus flavicornis</i>	Golden-horned Caddis	A+	C	C	C	Wetland	Ponds	2
<i>Limnephilus marmoratus</i>	Marbled Caddis (L fav gp)	A+	C	C	C	Wetland	Ponds	1
<i>Phryganea bipunctata</i>	Four-spotted Lake Caddis	A+	C	C	C	Wetland	Ponds, lakes, canals	1
ODONATA:	DRAGONFLIES & DAMSELFLIES: 8 species:							
<i>Aeshna cyanea</i>	Southern Hawker Dragonfly	A+	C	C	C	Wetland	Ponds + margins	2
<i>Aeshna grandis</i>	Brown Hawker Dragonfly	A+	C/L	C	C	Wetland	Ponds + margins	5
<i>Anax imperator</i>	Emperor Dragonfly	A+	C	C	C	Wetland	Deeper Ponds + margins	5
<i>Libellula depressa</i>	Broad-bodied Chaser Dragonfly (up)	A+	C	C/L	C	Wetland	Shallow muddy bottom ponds + margins	1
<i>Sympetrum striolatum</i>	Common Darter Dragonfly	A+	C	C	C	Wetland	Ponds + margins	5
<i>Lestes sponsa</i>	Emerald Damselfly	A+	C	C/L	C	Wetland	Ponds + margins	1
<i>Coenagrion puella</i>	Azure Damselfly	A+	C	C	C	Wetland	Ponds + margins	3
<i>Ischnura elegans</i>	Blue-tailed Damselfly	A+	C	C	C	Wetland	Ponds + margins	5
HEMIPTERA:	WATER BUGS: 25 species:							
<i>Microvelia reticulata</i>	Lesser Water Cricket	A	C	L	L	Wetland	Marshy margins of ponds	1
<i>Gerris lacustris</i>	Common Pond Skater	A	C	C	C	Wetland	Lake, pond also river	3
<i>Gerris lateralis</i>	Silver-spotted Pond Skater	A	L	L	L	Wetland	Swampy ponds. Big sites	1
<i>Gerris odontogaster</i>	Toothed Pond Skater	A	C	C	C	Wetland	Permanent ponds, lakes	1
<i>Gerris thoracicus</i>	Open permanent ponds/ lakes	A	C	C	C	Wetland		1
<i>Corixa panzeri</i>	Yellow Pond Skater	A	C	C	C	Wetland		1
<i>Corixa punctata</i>	Smaller Darker Water Boatman	A	C/L	VL	L	Wetland	Deeper, barer alkaline ponds	1
<i>Callicorixa praeusta</i>	Common Water Boatman	A	C	C	C	Wetland	Permanent ponds	9
<i>Hesperocorixa linnaei</i>	Black-footed Lesser Water Boatman	A	C	C	C	Wetland	Permanent ponds	2
<i>Hesperocorixa sahlbergi</i>	Fully-striped Lesser Water Boatman	A	C	C	C	Wetland	Permanent ponds	1
<i>Sigara distincta</i>	Pale-patched Lesser Water Boatman	A	C	C	C	Wetland	Ponds and wet swamps	3
<i>Sigara dorsalis</i>	Two-rowed Lesser Water Boatman	A	C/L	C	C	Wetland	Permanent ponds	2
<i>Sigara falleni</i>	Pale-shouldered Water Boatman	A	C	C	C	Wetland	Permanent ponds	2
<i>Sigara fossarum</i>	Triangular-paddled Water Boatman	A	C/L	C	C	Wetland	Permanent ponds	3
<i>Sigara lateralis</i>	Two-spotted Water Boatman	A	C/L	C	L	Wetland	Permanent ponds/swamps	1
<i>Sigara limitata</i>	Dark-clawed Yellow Water Boatman	A	C	L?	C	Wetland	Permanent ponds often with bare clay	1
	Four-striped Lesser Water Boatman	A	C/L	C	L	Wetland	Permanent ponds	2

<i>Sigara nigrolineata</i>	Zebra Water Boatman	A	C	C	C	Wetland	Permanent ponds	2	
<i>Sigara semistriata</i>	6-banded Lesser Water Boatman	A	L	L	L	Wetland	Lakes, ponds, rivers below neutral pH	2	
<i>Notonecta glauca</i>	Common Backswimmer	A	C	C	C	Wetland	Permanent ponds	11	
<i>Notonecta maculata</i>	Spotted Backswimmer	A	C/L	L	VL	Wetland	Permanent ponds with bare clay/rocks	2	
<i>Notonecta obliqua</i>	Black Backswimmer	A	C/L	VL	VL	Wetland	Permanent ponds in acidic areas	5	
<i>Notonecta viridis</i>	Ivory X-marked Backswimmer	A	C/L	L	L	Wetland	Permanent open ponds	4	
<i>Hydrometra stagnorum</i>	Common Water Measurer	A	C	C	C	Wetland	Permanent ponds	3	
<i>Ilyocoris cimicoides</i>	Saucer Bug	A	C/L	VL	C	Wetland	Permanent ponds	3	
<i>Nepa cinerea</i>	Water Scorpion	A	C	C	C	Wetland	Permanent and semi-permanent ponds	3	
HEMIPTERA:		LAND BUGS: 43 taxa:							
1 Shorebug species:									
<i>Chartoscirta cincta</i>	Narrow-necked Shorebug	W	C/L	VL	L	Wetland	Swamps, acid & alkaline	4	
1 Shieldbug species:									
<i>Acanthosoma haemorrhoidale</i>	Hawthorn Shieldbug	T	C	C	C	Wood edge	Hawthorn + Oak, Hazel, Birch	1	
1 Lacebug species:									
<i>Tingis ampliata</i>	Creeping Thistle Lacebug	T	C/L	VL	L	Roughs	Creeping Thistle	1	
2 Flower Bug species:									
<i>Anthocoris nemoralis</i>	Banded Flower Bug	T	C/L	VL	C	Wood edge	Deciduous trees with insects	1	
<i>Anthocoris nemorum</i>	2-spotted all-shining Flower Bug	T	C	C	C	Roughs	Lower vegetation with insects	5	
11 Plant Bug species:									
<i>Cyllecoris histriionius</i>	Oak Plant Bug	T	C/L	NC	C	Wood edge	Feeds on Oak aphids and buds	1	
<i>Grypocoris stysi</i>	Black, Yellow & Orange Plant Bug	T	C/L	C/L	C	Wood edge	Woodland nettles and umbellifers	8	
<i>Heterotoma planicornis</i>	Huge-antennaed Grassbug	T	C/L	C/L	C	Wood edge	Trees, herbs, nettles, fruit, buds, insects	1	
<i>Leptopterna dolabrata</i>	Large Dimorphic Meadow Plant Bug	T	C	C/L	C	Wetland	Grasses, esp damper sites	10	
<i>Liocoris tripustulatus</i>	Three-spotted Nettle Plant Bug	T	C	C	C	Wood edge	Nettles	6	
<i>Lygus rugulipennis</i>	Long-haired Tarnished Plant Bug	T	C	C/L	C	Wood edge	Wide variety of herbs & shrubs	1	
<i>Miris striatus</i>	Red-legged Striped Plant Bug	T	C/L	L	L	Wood edge	Oak, Hawthorn, predatory	1	
<i>Orthops campestris</i>	Brown-spotted Green Green-heart Bug	T	C/L	L	L	Roughs	Umbellifers	1	
<i>Psallus varians</i>	Ruddy Bug	T	C/L	VL	C/L	Wood edge	Oaks	1	
<i>Stenodema calcarata</i>	2-spurred Punctured Grassbug	T	C	L	C	Roughs	Grass seeds	9	
<i>Stenodema laevigata</i>	Unspurred Punctured Grassbug	W	C	L	C	Wetland	Damp areas - grass seeds	10	
4 Ground Bug species:									
<i>Cymus melanocephalus</i>	Punctured Dark-scutellum Ground Bug	W	C	L	L	Wetland	Damp areas trefoil, loosestrife, rush	2	
<i>Ischnodemus sabuleti</i>	European Chinchbug	W+	C/L	L	C/L	Wetland	Wetland grass/reeds - migrating to drier grasses	3	
<i>Scolopostethus affinis</i>	Paler Tuberculed Ground Bug	T	C/L	L	L	Wood edge	Leaf litter inc Nettles	1	
<i>Scolopostethus thomsoni</i>	Untuberculed Ground Bug	T	C/L	L	L	Wood edge	Rich vegetation esp Nettles	1	
1 Damselbug species:									

<i>Nabis limbatus</i>	Marsh Damselbug (small-winged broad-edged)	W	C/L	C/L	C	Wetland	Damp grassland/wet meadows	1
8 Larger Leafhopper species:								
<i>Balclutha punctata</i>	Dark-spotted Orange Leafhopper	T	C/L	VL	VL	Wood edge	Clearings in woods	3
<i>Cicadella viridis</i>	Large Green Leafhopper	W	C	C	C	Wetland	Damp grasslands, marshes	5
<i>Cicadula quadrinota</i> group								2
<i>Euscelis incisus</i>	Mottled Stubby Leafhopper	T	C/L	L	VL	Roughs	Medium most grasslands	7
<i>Macrosteles (females only)</i>	a 6-spot Smiling Ghost Leafhopper	W				Wetland	Marshes, pond margins	4
<i>Mocystia crocea</i>	Orange & White- striped Leafhopper	T	C/L	VL	VL	Roughs Wood edge	Tall grasses in woods & meadows	1
<i>Oncopsis flavicollis</i>	Dark-faced Birch Leafhopper	T	C/L	C/L	C/L	Wood edge	Birch	1
<i>Populicerus (Idiocerus) confusus</i>	Yellow Big-eyed Willow Leafhopper	W	C/L	VL	VL	Wetland	Grey Willows	2
3 Small Leafhopper species:								
<i>Empoasca vitis</i>	White-spotted Green clear-celled Small Leafhopper	T	L	VL	NC	Wood edge	Deciduous trees/ Evergreen trees	1
<i>Eupteryx urticae</i>	C-marked dark- legged 15 spot Small Leafhopper	T	C	C/L	L	Wood edge	Nettles & other low vegetation	2
<i>Ribautiana debilis</i>	Grey-tipped Yellow Small Leafhopper	T	VL	NC	NC	Wood edge	Bramble, Apple, Hazel, Willow, Alder	2
4 Planthopper species:								
<i>Conomelus anceps</i>	Marsh Short-winged Planthopper	W	C	VL	VL	Wetland	Damp areas/ Rushes	2
<i>Javesella pellucida</i>	Stripe-faced Long- winged Planthopper	T	C/L	VL	VL	Roughs	Enriched grasslands	5
<i>Muellerianella fairmairei</i>	3-Banded Planthopper	W	C/L	NC(<60)	NC	Wetland	Damp areas. <i>Deschampsia cespitosa</i>	1
<i>Stenocranus minutus</i>	Long-winged Long- nosed Planthopper	T	C/L	VL	VL	Roughs	Diverse grassy habitats	1
1 Froghopper species:								
<i>Philaenus spumarius</i>	Cuckoospit Frog hopper	T	C	C	C	Roughs	Wide range of plants inc gardens	1
2 Jumping Plant Louse species:								
<i>Psyllopsis fraxinicola</i>	Yellow Ash Plant Louse	T	C/L	NC	NC	Wood edge	Ash trees	5
<i>Trioxa urticae</i>	Nettle Jumping Plant Louse	T	C	NC	VL	Wood edge	Nettles etc	2
4 Greenfly taxa:								
<i>Macrosiphoniella tanacetaria</i>	Tansy Aphid	T	L?			Flower meadows Wood edge	Tansy	1
<i>Microlophium carnosum</i>	Large Nettle Aphid Dark-siphoned	T	C		C?	Wood edge	Nettles	1
<i>Other greenfly including</i>	Greenfly	T						3
<i>Aphid spp</i>	Aphid (Misc)	T						5
PSCOCOPTERA: BARKFLIES: 2 species								
<i>Ectopsocus briggisi</i>	Less-spotted Barklouse	T	C	C	L	Wood edge	Shrub or tree dead foliage	1
<i>Graphopsocus cruciatus</i>	Spotted Barkfly	T	C/L	VL	VL	Wood edge	Wide range of trees /bushes, herbs	1
LEPIDOPTERA: BUTTERFLIES & MOTHS: 15 taxa:								
11 Butterfly species:								
<i>Aglais io</i>	Peacock Butterfly	T	C	C	C	Wood edge	Eggs Nettles. Adults: open woods, rides, edges	2
<i>Agalis urticae</i>	Small Tortoiseshell Butterfly	T	C	C	C	Wood edge	Eggs laid on Nettles. Many habitats including gardens	4
<i>Anthocharis cardamines</i>	Orange Tip Butterfly	T	C	C	C	Wetland	Eggs on Allaria & Cuckooflower;	5
<i>Maniola jurtina</i>	Meadow Brown Butterfly	T	C	C	C	Roughs	Eggs on grasses. Meadows, hedges, open woods.	4

<i>Pararge aegeria</i>	Speckled Wood Butterfly	T	C	C	C	Wood edge	Aphid honeydew; lays on tough grasses	2
<i>Pieris brassicae</i>	Large White Butterfly	T	C	C	C	meadows	Eggs on Brassicas; Adult visits flowers	2
<i>Pieris napi</i>	Green Veined-white Butterfly	W	C	C	C	Wetland	Eggs on crucifers. Adult: damp grass/marshes	3
<i>Pieris rapae</i>	Small White Butterfly	T	C	C	C	meadows	Eggs on Brassicas; Adult visits flowers	3
<i>Pyronia tithonus</i>	Gatekeeper Butterfly	T	C	C	C	meadows	Eggs on grasses; Bramble, Co Fleabane, Ragworts etc	3
<i>Thymelicus sylvestris</i>	Small Skipper Butterfly	T	C	C	C	Roughs	Eggs on Yorkshire Fog. Tall grasses + herbage.	1
<i>Vanessa atalanta</i>	Red Admiral Butterfly	T	C	C	C	Wood edge	Nectar feeder. Lays on Nettles	2
4 Moth species:								
<i>Moth or caterpillar</i>		T						4
<i>Mesapamea secalis</i> agg	a Common Rustic	T	C	C	C	Roughs	Coarse grasses, Dacglo, Fesaru, Desces	1
<i>Mythimna ferrago</i>	Clay Drinker Moth	T	C	C	C	Roughs	On grasses	1
<i>Euthrix potatoria</i>	Caterpillar	W	C/L	C/L	C/L	Wetland	Marshes and damp grassland	1
<i>Rivula sericealis</i>	Straw Dot Moth	T	C	C	C	Roughs	Damp meadows and woodland	1
COLEOPTERA: BEETLES: 140 species:								
43 Water Beetle species:								
<i>Halipus ruficollis</i>	Common Halipus Beetle	A	C	C	C	Wetland	Permanent ponds	3
<i>Halipus ruficollis</i> group								5
<i>Hygrobia hermanni</i>	Squeak Beetle	A	C	L	C	Wetland	Permanent ponds	7
<i>Dytiscus marginalis</i>	Common Great Diving Beetle	A	C	C	C	Wetland	Permanent ponds	2
<i>Acilius sulcatus</i>	Grooved Diving Beetle	A	C	C	C	Wetland	Shaded ponds, ponds, fish-free esp.	1
<i>Colymbetes fuscus</i>	Larger Diving Beetle	A	C	C	C	Wetland	Permanent ponds	3
<i>Agabus affinis</i>	Kilij-ended Diving Beetle	A	C/L	L	L	Wetland	Marshy/Mossy/Floating raft ponds	1
<i>Agabus bipustulatus</i>	Common Black Diving Beetle	A	C	C	C	Wetland	Permanent ponds	12
<i>Agabus nebulosus</i>	Mottled Diving Beetle	A	C	C	C	Wetland	New or rain flushed ponds	1
<i>Agabus sturmii</i>	Common Brown Pond Diving Beetle	A	C	C	C	Wetland	Permanent ponds	3
<i>Agabus unguicularis</i>	Narrow-clawed Black Diving Beetle	A	C/L	L	C/L	Wetland	Swamps/floating rafts on ponds	1
<i>Ilybius ater</i>	Larger Black Diving Beetle	A	C	C	C	Wetland	Permanent ponds	2
<i>Ilybius fuliginosus</i>	Side-banded Diving Beetle	A	C	C	C	Wetland	Permanent Ponds	4
<i>Ilybius guttiger</i>	Black Fen Diving Beetle	A	C/L	C/L	C/L	Wetland	Fens, floating mats, marshy ponds	2
<i>Ilybius subaeneus</i>	Red-bellied Black Diving Beetle	A	NS	L	L	Wetland	Permanent Ponds	1
<i>Liopterus haemorrhoidalis</i>	Ruddy Diving Beetle	A	C/L	L	L	Wetland	Permanent Ponds	2
<i>Rhantus exsoletus</i>	Pale Gold-speckled Diving Beetle	A	C/L	C	C/L	Wetland	Permanent Ponds	3
<i>Rhantus suturalis</i>	3-spot Gold-speckled Diving Beetle	A	C/L	L	L	Wetland	Wide variety of ponds	3
<i>Noterus clavicornis</i>	Boat-shaped Small Diving Beetle	A	C	C	C	Wetland	Permanent Ponds	9
<i>Hydroporus angustatus</i>	Ruddy Small Diving Beetle	A	C	C	C	Wetland	Permanent Ponds	1
<i>Hydroporus erythrocephalus</i>	Dotted-nosed Small Diving Beetle	A	C	C	C	Wetland	Ponds, often poorly vegetated.	1
<i>Hydroporus memnonius</i>	Broad-flat Small Diving beetle	A	C	C	C	Wetland	Marshy edges, woodland pools	2
<i>Hydroporus palustris</i>	Black & Gold Small Diving Beetle	A	C	C	C	Wetland	Ponds	2

	Common Small Brown Diving Beetle	A	C	C	C	Wetland	Ponds and marshy pools	1
<i>Hydroporus planus</i>	Striped Oval Diving Beetle	A	C	C	C	Wetland	Permanent Ponds	6
<i>Hygrotus inaequalis</i>	Gold-striped Brown Diving Beetle	A	C	C	C	Wetland	Permanent Ponds	3
<i>Hygrotus impressopunctatus</i>	Orange Egg-shaped Diving Beetle	A	C	C	C	Wetland	Permanent Ponds	2
<i>Hyphydrus ovatus</i>	Quiet Khaki Diving Beetle	A	C	C	C	Wetland	Permanent Ponds	2
<i>Laccophilus minutus</i>	Brown Domed Scavenger Beetle	W	C	C	C	Wetland	Pond & stream edges, woodland pools	2
<i>Anacaena globulus</i>	Brown Domed Scavenger Beetle	W	C	C	C	Wetland	Well-vegetated marshes / pond edges	3
<i>Anacaena limbata</i>	Black Domed Scavenger Beetle	W	C	C/L	C/L	Wetland	Marshes / pond edges	1
<i>Coelostoma orbiculare</i>	Centrally-striped Scavenger Beetle	W	C	C	C	Wetland	Fen marshes / pond & ditch edges	1
<i>Enochrus coarctatus</i>	Dark-tipped Scavenger Beetle	W	C/L	C	C	Wetland	Fen veg in ponds, lakes, ditches	1
<i>Enochrus testaceus</i>	Shiny Pale Helochaes Beetle	W	C/L	VL	C	Wetland	Weedy lowland waters, inc brackish	1
<i>Helochaes lividus</i>	Dark Bog Helochaes Beetle	W	NS	L	L	Wetland	Mainly wet heath, bog, acid pools	1
<i>Helochaes punctatus</i>	Small-toothed Greater Scavenger Beetle	W	C	L	C	Wetland	Marshes / pond edges	2
<i>Helophorus aequalis</i>	Golden Scavenger Beetle	W	C	C	C	Wetland	Marshes / pond edges	3
<i>Helophorus brevipalpis</i>	Large-toothed Greater Scavenger Beetle	W	C	C	C	Wetland	Marshes / pond edges	2
<i>Helophorus grandis</i>	Common Golden Scavenger Beetle	W	C	C	C	Wetland	Marshes / pond edges	1
<i>Helophorus minutus</i>	Pale Brown Scavenger Beetle	W	C	C/L	C/L	Wetland	Muddy habitats pH 7 and above	1
<i>Helophorus obscurus</i>	Common Black-domed Scavenger Beetle	W	C	C	C	Wetland	Marshes / pond edges	4
<i>Hydrobius fuscipes agg</i>	Common Grey-domed Scavenger Beetle	W	C	C	C	Wetland	Marshes / pond edges	2
<i>Laccobius bipunctatus</i>	Short-ended Moss Beetle	W	C	L	L	Wetland	All types of marsh/marshy streams	1
<i>Limnebius truncatellus</i>	Orange Marsh Beetle	W	C/L	VL	L	Wetland	Sphagnum/ Marshes / pond edges	2
<i>Cyphon ochraceus</i>								
15 Leaf & Flea Beetle species:								
<i>Agelastica alni</i>	Alder Leaf Beetle	W	NR	C	C	Wetland	English Alder & Grey Alder	3
<i>Altica sp</i>						Flower meadows	Legumes. Attacks bean crops	1
<i>Bruchus rufimanus</i>	Bean Seed Beetle	T	A	VL	NC	meadows	Roughs and tall herb, Creeping Thistle	2
<i>Cassida rubiginosa</i>	Green Thistle Tortoise Beetle	T	C	C/L	C	Roughs		5
<i>Chaetocnema picipes</i>	Greenish black keeled Flea Beetle (ant dark above)	T	L	VL	VL	Roughs	Docks, Oraches, Atriplex spp	1
<i>Crepidodera aurata</i>	Red & Gold Willow Flea Beetle	W	C/L	L	C	Wetland	Willows	3
<i>Donacia versicolore</i>	Pondweed Donacia Beetle	W	C/L	VL	L	Wetland	Ponds with Broad-leaved Pondweed	2
<i>Galerucella lineola</i>	Brown Willow Beetle	W+	C/L	L	C	Wetland	Alder, Hazel, Willows	1
<i>Gastrophysa viridula</i>	Green Dock Beetle	T	C	C	C	Roughs	Docks	6
<i>Hydrothassa marginella</i>	Yellow-edged Buttercup Beetle	T	C/L	L	C	Wetland	On Buttercups	3
<i>Longitarsus atricillus</i>	Large dark-headed-dark-sutured Longitarsus	T	C/L	Vla	VL	Flower meadows	esp Pea family	1
<i>Longitarsus luridus</i>	Common Dark Flea Beetle	T	C	VL	L	Roughs	Many plants, leaves, roots. Grass tussocks	1

<i>Longitarsus melanocephalus</i>	Narrowly-dark-sutured pale Longitarsus Small dark headed pale-elytrad	T	C/L	VL	L	Flower meadows	Plantain	1
<i>Longitarsus pratensis</i>	Longitarsus Brooklime Blue	T	C/L	NC	NC	Flower meadows	Plantain	1
<i>Phaedon armoraciae</i>	Leaf Beetle	W	C/L	C/L	C	Wetland	Water plants	1
11 Ladybird species:								
<i>Adalia 10-punctata</i>	10 Spot Red Ladybird	T	C	C	C	Wood edge	Woodland, gardens with trees	2
<i>Adalia 2-punctata</i>	2 Spot Red Ladybird	T	C	C	C	Any	Any habitat with aphids Eats wetland aphids;	2
<i>Anisosticta 19-punctata</i>	Water Ladybird	W	C/L	C	C	Wetland	overwinters tall veg	3
<i>Chilocorus renipustulatus</i>	Kidney-spot Ladybird	T	C	C/L	C	Wood edge	Deciduous woods, trees, thistles, nettles.	1
<i>Coccidula rufa</i>	Red Marsh Ladybird	W	C	C	C	Wetland	Aphids, tall wetland grasses/reeds	5
<i>Coccinella 11-punctata</i>	11 Spot Red Ladybird	T	C	C/L	C	Roughs	Variety of habitats esp coastal	1
<i>Coccinella 7-punctata</i>	Common 7 Spot Red Ladybird	T	C	C	C	Any	Anywhere with Aphids. Low herbage.	5
<i>Harmonia axyridis</i>	Harlequin Ladybird (red or black)	T	A	C	C	Any	Aphids. Trees, scrub, grass, marsh.	2
<i>Propylea 14-punctata</i>	14 Spot Yellow Ladybird	T	C	C	C	Wood edge	Tall vegetation, trees, overwinters	3
<i>Psyllobora 22-punctata</i>	22 Spot Yellow Ladybird	T	C	C	C	Roughs	Low vegetation: mildew feeder	1
<i>Rhyzobius litura</i>	U-marked Ladybird	W+	C/L	L	C	Wetland	Grasses, thistle, nettle, rush, reed	3
5 Soldier Beetle species:								
<i>Cantharis cryptica</i>	Various-haired Red Soldier Beetle	T	C	C/L	C	Wood edge	Long grass, umbellifers, bushes, trees	2
<i>Cantharis decipiens</i>	Butternut-squash-marked Yellow SB	T	C	C/L	C	Wood edge	Trees, shrubs, Hawthorn blossom	2
<i>Cantharis nigricans</i>	Felted Dusky Soldier Beetle	T	C	C	C	Flower meadows	Hedges, flower meadows, umbellifers	4
<i>Malthodes marginatus</i>	Keel-edged Small Soldier Beetle	T	C	VL	L	Wood edge	On vegetation in woods	1
<i>Rhagonycha limbata = nigriventris</i>	Diamond-marked Black & Yellow SB	T	C	C/L	C	Flower meadows	Open grasslands on dry soil	2
4 Click Beetle species:								
<i>Agriotes obscurus</i>	Wireworm Click Beetle	T	C/L	L	C/L	Flower meadows	Meadows & grassy places	3
<i>Agriotes pallidulus</i>	Dark-sutured Small Click Beetle	T	C/L	VL	C/L	Wood edge	Grassland with trees and bushes.	3
<i>Aplotarsus incanus</i>	Slim Black Click Beetle	W+	C/L	VL	L	Wetland	Damp grass, marsh, pond edge	4
<i>Athous haemorrhoidalis</i>	Black and Red Click Beetle	T	C	C/L	C	Flower meadows	Hedges, tall herb, meadows	7
7 Ground Beetle species:								
<i>Agonum thoreyi</i>	Furrowed-tarsi Marsh Ground Beetle	W	C	L	L	Wetland	Marshes, fens, reedbeds	1
<i>Bembidion aeneum</i>	Dark-legged Bembidion	W	C/L	L	C/L	Wetland	Damp spoil, estuaries, saltmarsh	1
<i>Bembidion lunulatum</i>	Brown Ground Beetle	W	C	L	C	Wetland	Damp, bare ground near water.	2
<i>Carabus violaceus</i>	The Violet Ground Beetle	T	C	C	C	Wood edge	Woods, gardens, moors, undisturbed sites	1
<i>Nebria brevicollis</i>	Common Heart-shield GB	T	C	C	C	Any	Woods, gardens, farm fields	1
<i>Paradromius linearis</i>	Common Bladerunner GB	T	C	L	C	Roughs	Grass tussocks, also reeds	2
<i>Pterostichus nigrita</i>	Mitten Blackclock GB	W	C	C	C	Wetland	Damp lowlands, near water	1
17 Rove Beetle species:								
<i>Stenus bifoveolatus</i>	Camphor Beetle	W	C/L	VL	C	Wetland	Range of wetlands, low & tall veg	2
<i>Stenus cicindeloides</i>	Shining Camphor Beetle	W	C	L	C	Wetland	Wet grassland esp Juncus and others	1

<i>Stenus juno</i>	Hairy-chested Black Camphor Beetle	W	C	L	C/L	Wetland	Wetlands of many kinds	2
<i>Stenus latifrons</i>	Camphor Beetle	W	C/L	VL	VL	Wetland	Lake margins, fens, swamps	1
<i>Stenus nitidiusculus</i>	Uneven-elytrad Camphor Beetle	W	C/L	L	L	Wetland	Moss, peat, Iris, Juncus, wet pasture	1
<i>Stenus picipennis</i>	Camphor Beetle	W	C/L	VL	VL	Wetland	Juncus, Watercress, stream, marsh, dune	2
<i>Stenus pusillus</i>	2-hollowed Camphor Beetle	W	NB	VL	L	Wetland	Marshes, ditches, pond edges, grassland	1
<i>Stenus similis</i>	Tube-bodied Camphor Beetle	H+	C/L	L	C/L	Heaths	Drier grassland & heathland, mountains	2
<i>Aleocharinae</i> (several species)	Brown Rove Beetles (various)	W				Wetland		4
<i>Aleochara lanuginosa</i>	Red-winged Aleochara Beetle	T	C/L	VL	C	Roughs	Dung, carcasses, grass tussocks	1
<i>Anotylus rugosus</i>	Dull-nosed Ridged Rove Beetle	W	C/L	L	C	Wetland	Damp veg litter, esp marshes	1
<i>Lesteva longoelytrata</i>	Longer-winged Brown Rove Beetle	W	C/L	VL	L	Wetland	Moss/leaf litter in marshes/streams	1
<i>Philonthus sp</i>								1
<i>Quedius maurorufus</i>	Larger Brown Rove Beetle	T	C/L	L	C/L	Wetland	Fens, flushes, pond margins	1
<i>Tachinus rufipes</i>	Pale-edged Black Rove Beetle	T	C/L	VL	C	Roughs	Leaf litter, thick grass, dung, logs	2
<i>Tachyporus hypnorum</i>	Bi-coloured- pronotum Yellow & Black Rove Beetle	W+	C	L	C/L	Wetland	Leaf litter, rotting grass, moss, soil surface	3
<i>Tachyporus solutus</i>	Black headed & tailed Y & B RB	T	C/L	VL	VL	Roughs	Leaf litter, rotting grass, moss, soil surface	1
20 Weevil species:								
<i>Anthonomus rubi</i>	Strawberry-blossom Weevil	T	C/L	VL	L	Wood edge	Strawberries/raspberries	1
<i>Apion frumentarium</i>	Orange Dock Weevil	T	C/L	C	C	Roughs	Docks	2
<i>Archarius salicivorus</i>	Willow Gall Weevil	W+	C/L	NC (1977)	C/L	Wetland	Feeds on Willow and gall causer	1
<i>Ceratapion gibbirostre</i>	Wide-nosed Thistle Weevil	T+	L	VL	L	Roughs	Thistles	1
<i>Ceutorhynchus obstrictus</i>	Cabbage Seed Weevil	T	C/L	VL	L	Roughs	Brassicas	1
<i>Cionus scrophulariae</i>	Figwort Weevil	T	C/L	C/L	VL	Roughs	Figwort & Mullein	1
<i>Hypera nigrirostris</i>	Black-nosed Green Clover Weevil	T	C/L	L	VL	Flower meadows	Clover & Bird's-foot-trefoil	1
<i>Hypera rumicis</i>	Broad-nosed Dock Weevil	T/W	C/L	VL	L	Roughs	Docks	1
<i>Nedyus quadrimaculatus</i>	Small White- patched Nettle Weevil	T	C	C/L	C	Wood edge	Nettles	3
<i>Oxystoma cerdo</i>	Small pinch-nosed antennae 1 yellow weevil	T	Nb	VL	L	Flower meadows	Tufted Vetch	1
<i>Pelenomus quadrituberculatus</i>	Persicaria Weevil	W+	C/L	NC (1978)	VL	Wetland	Persicarias & Curled Dock	1
<i>Perapion curtirostre</i>	Common Black Dock Weevil	T+	C/L	VL	C/L	Roughs	Well vegetated areas with Rumex	1
<i>Perapion hydrolapathi</i>	Straight-sided Blue Dock Weevil	T+	C/L	NC (1918)	C/L	Roughs	Docks	1
<i>Phyllobius pomaceus</i>	Glaucous Nettle Weevil	T	C	C/L	C	Wood edge	Nettles mostly	9
<i>Phyllobius pyri</i>	Common Leaf Weevil	T	C	C/L	C	Wood edge	Trees and shrubs	7
<i>Phyllobius roboretanus</i>	Small Green Nettle Weevil	T	C	L	C/L	Wood edge	Trees and shrubs and herbs	7
<i>Protapion trifolii</i>	Dark-trochantered Weevil	T	C/L	VL	L	Flower meadows	Red Clover, Zig-zag Clover	1
<i>Rhinoncus pericarpus</i> (pre 2014)	Smooth Cream- spotted Sorrel Weevil	T	C	VL	C/L	Flower meadows	Sorrel & Docks	4
<i>Sitona cylindricollis</i>	Narrow Sitona Weevil (pron punctures ringed by grooves)	T	L	VL	L	Flower meadows	Melilotus	3

<i>Sitona lineatus</i>	Big-eyed Striped Sitona Weevil	T	C	C/L	C/L	Flower meadows	Vetches, grasslands	1	
3 Dung specialists:									
<i>Aphodius (Agrilinus) ater</i>	Small Black Dung Beetle	T	C	VL	L	Pasture	Dung of herbivores	1	
<i>Cercyon lateralis</i> (G Foster)	Bordered Cercyon Beetle	T	C/L	VL	L	Pasture	Dung, compost, carrion.	1	
<i>Sphaeridium lunatum</i>	Black-Red-Yellow Dung Beetle	T	C/L	VL	L	Pasture	Horse & cow dung, carcasses, compost	1	
15 Other Beetle species:									
<i>Anaspis fasciata (humeralis)</i>	One-pronged Tumbling Flower Beetle	T	C/L	VL	L	Flower meadows	Hawthorn/Blackthorn/spring flowers	1	
<i>Anaspis maculata</i>	Spotted Tumbling Flower Beetle	T	C/L	C/L	C	Wood edge	Hawthorn, Elder, Hogweed, Daisy etc	8	
<i>Anaspis regimbarti</i>	Orange & Brown Flower Beetle	T	C/L	VL	L	Flower meadows	Hawthorn/Blackthorn/spring flowers	2	
<i>Anaspis rufilabris</i>	Pale-spurred Brown Flower Beetle	T	C/L	VL	L	Flower meadows	Hawthorn/Blackthorn/spring flowers	3	
<i>Brachypterus glaber</i>	Black-legged Short- winged Nettle Pollen Beetle	T	C/L	C/L	C	Wood edge	Nettles and umbels	6	
<i>Brachypterus urticae</i>	Pale-legged Short- winged Nettle Pollen Beetle	T	C	L	C	Wood edge	Nettle flowers & buds	10	
<i>Byturus tomentosus</i>	Raspberry Beetle (elytral flanks visible)(Furry orange)	T	C/L	C/L	C	Wood edge	Eggs laid on Rubus; Adult flower feeders	1	
<i>Corticarina minuta (fuscula)</i>	Round-pronotum Latrid (1.5 to 1.8mm), head pron dark. A9 long.	T	C/L	VL	C/L	Wood edge	Fungi. Compost, leaf litter, logs.	1	
<i>Enicmus transversus</i>	Broad Brown Latrid Red-antennae	T	C/L	VL	C/L	Wood edge	Woods, wetlands, wastes	1	
<i>Grammoptera ruficornis</i>	Longhorn Green-hued Simple- femured Pollen Beetle	T	C	C/L	C	Wood edge	Dead twigs, flowers, trees, shrubs, Hogweed	2	
<i>Meligethes aeneus</i>	Small False Blister Beetle	T	C	C/L	C	Flower meadows	Brassicas; Yellow flowers, esp Oil Seed Rape	5	
<i>Oedemera lurida</i>	(purple/green)	T	C/L	C/L	C	Roughs	Open areas with pollen, dead stems	3	
<i>Oedemera nobilis</i>	Green Swollen- thighed Beetle	T	C/L	C/L	C	Flower meadows	Flower meadows, gardens, roughs	2	
<i>Pyrochroa serratorcornis</i>	Red-headed Cardinal Beetle	T	C/L	L	C/L	Wood edge	Predatory. Docks, Nettle, umbels. Timber	1	
<i>Telmatophilus typhae</i>	Greater Reedmace Pollen Beetle	W	C/L	VL	L	Wetland	Greater Reedmace	1	
DIPTERA: TRUE FLIES: 97 taxa:									
19 Hoverfly species:									
<i>Cheilosia albitarsis</i>	Buttercup Blacket Hoverfly	T	C	C/L	L	Flower Meadows	Buttercups: damp meadows, marsh, rides	1	
<i>Episyrphus balteatus</i>	Marmalade Hoverfly	T	C	C	C	Flower meadows	All habitats, larvae eat aphids	4	
<i>Eristalis tenax</i>	Enriched water/pollen/ivy/buildings in winter	A+	C	C	C	Wetland		1	
<i>Eupeodes corollae</i>	Common Dronefly Yellow-spectacled Hoverfly	T	C/L	C	C	Flower meadows	Many habitats. Often migrant	1	
<i>Hoverfly</i>	Rat-tailed Maggot Common Marsh	A+				Wetland		1	
<i>Melanogaster hirtella</i>	Hoverfly	A+	C/L	L	C/L	Wetland	Aquatic larvae in reeds; Buttercups	7	
<i>Melanostoma mellinum</i>	Narrowly-dusted Orange-clubbed Hoverfly	W+	C	C	C	Wetland	Grasslands esp moorland flushes	2	
<i>Melanostoma scalare</i>	Broadly-dusted Orange-clubbed Hoverfly	T	C	C	C	Wood edge	Grassland, scrub, wood rides.	6	
<i>Neoascia meticulosa</i>	Yellow-kneed Clubtail Hoverfly	A+	C/L	L	L	Wetland	Aquatic larvae in reeds; Buttercups	3	
<i>Pipiza noctiluca</i>	Common Pipiza Hoverfly	T	C/L	L	C/L	Wood edge	Brambles, Umbellifers, often woods	1	

<i>Platycheirus albimanus</i>	Common Silver-spotted Hoverfly	T	C	C/L	C	Wood edge	Wood edge, hedge, gardens. Aphids	4	
<i>Platycheirus angustatus</i>	Lightening-pitted Orange-spot Hoverfly	W+	C/L	C/L	C/L	Wetland	Marshes, damp grass + dry grass	2	
<i>Platycheirus clypeatus</i>	Round-pitted Orange-spot Hoverfly	W+	C	C/L	C	Wetland	Dry grass, wet meadows, fens	5	
<i>Platycheirus granditarsus</i>	Orange-saddled Hoverfly	W	C/L	C/L	C	Wetland	Marshy meadows, lush waterside veg	2	
<i>Platycheirus manicatus</i>	Dull-backed Boxer Hoverfly	T	C/L	C/L	C/L	Roughs	Dry grassland of calc, coast, moor	1	
<i>Platycheirus peltatus</i>	Broad Orange-spotted Hoverfly	T	C/L	C/L	C/L	Wood edge	Meadows, rides, open scrub, clearings	1	
<i>Platycheirus rosarum</i>	Two-spotted Hoverfly	W	C/L	C/L	L	Wetland	Marshy meadows, lush waterside veg	5	
<i>Platycheirus scutatus</i> group (female)	Female hoverfly (1 of 3/4 species)	T	C/L	C/L	L	Wood edge	Woodland edge trees & flowers	1	
<i>Sphaerophoria</i> (females)		T					Larvae eat Aphids	3	
<i>Syrirta pipiens</i>	The Fat-femured Hoverfly	T	C	C	C	Wood edge	Most places inc gardens, ivy	4	
5 Soldierfly & allies species:									
<i>Beris chalybata</i>	Murky-legged Black Legionnaire SF	T	C	C/L	C	Wood edge	Lush veg, hedges, rides, marshes	2	
<i>Microchrysa cyaneiventris</i>	Black Gem Soldierfly	T	C/L	C/L	C	Wood edge	Trees and shrubs	1	
<i>Microchrysa flavicornis</i>	Green Gem Soldierfly	T	C	VL	L	Wood edge	Tree, shrub foliage; larvae in dung	2	
<i>Rhagio scolopaceus</i>	Downlooker Snipefly	T	C	C	C	Roughs	Damp meadows, isolated trees	2	
<i>Symphoromyia crassicornis</i>	Moorland Snipefly	W	NS	VL	NC	Wetland	Moors, wet meadows, streams, dunes	1	
7 Cranefly species:									
<i>Dicranomyia modesta</i>	a Clear-winged Brown Cranefly	W	C	L	C	Wetland	Wet woods, marsh, ponds, damp grass	1	
<i>Erioconopa trivialis</i>	Grey Scythe Cranefly	W	C	C/L	C	Wetland	Wetlands, wet woods,	2	
<i>Erioptera fusculentata</i>	Yellow-shoulder Grey/Brown Cranefly	W	C/L	VL	VL	Wetland	Muddy places upland/lowland	2	
<i>Nephrotoma guestfalica</i>	Hairy-backed Tiger Cranefly	W	C/L	NC (1920)	L	Wetland	Sandy riversides, wetland, wooded	1	
<i>Ormosia</i> sp	5-lobed aquatic larvae	A+				Wetland		1	
<i>Prionocera turcica</i>	Yellow-nosed Cranefly adult+ larva	A+	C/L	L	C/L	Wetland	Bog, wet heath, marsh	2	
<i>Tipula oleracea</i>	Long-winged Long-palped Cranefly	W+	C	C	C	Roughs	Damp grassland	2	
<i>Tipulidae</i>	Larva/Pupa (undeterminable)	A+						2	
14 other Nematocera taxa:									
<i>Bibio nigriventris</i>	Short-horned Bibio Milky-winged	T	C/L	VL	VL	Wood edge	Trees and shrubs and grassland	1	
<i>Dilophus femoratus</i>	Feverfly	T	C/L	VL	L	Roughs	Umbellifers in damper areas	1	
<i>Chaoborus</i> sp & c	Phantom Midge	A+				Wetland	Ponds/ditches	3	
<i>Anopheles</i> sp		A+				Wetland	Wetlands and water butts	1	
<i>Coquillettidia richiardii</i>	Piercing-syphoned Mosquito	A+	L	NC (1939)	VL	Wetland	Vegetated ponds etc	1	
<i>Ceratopogonidae</i> (adults)								2	
<i>Chironomidae</i> (large adults)	Non-biting Midges	A+				Wetland	Ponds/ditches	3	
<i>Chironomidae</i> (tiny adults)	Non-biting Midges	A+				Wetland	Ponds/ditches	10	
<i>Chironomidae</i> (red larvae)	Non-biting Midges (bloodworm)	A+				Wetland	Wetlands	4	
<i>Podominae</i> (larvae)	Non-biting Midge	A+				Wetland	Wetlands	1	
<i>Tanypodinae</i> (larvae)	Non-biting Midge (Narrow Head)	A+				Wetland	Wetlands	1	

<i>Keroplastidae</i>	Fungus Gnats	T				Wood edge	Fungus, rotting wood. Woods	1
<i>Sciaridae</i>	Black Fungus Gnats	W+				Wetland	Mainly wet habitats. Multi-strategy	8
<i>Dixella autumnalis</i>	Meniscus Midge	A+	C/L	NC (1964)	L	Wetland	Swamps at the edges of wetlands	3
<i>Dixidae</i>	Unidentified larvae	A+				Wetland		2
<i>Simuliidae</i>	Blackflies	A+				Wetland	Running water; nectar or blood	2
<i>Psychodidae</i>	Moth Flies	A+				Wetland	Larvae in water; damp woods, marshes	1
29 other Brachycera Fly taxa:								
<i>Dolichopus brevipennis</i>	Wide-black-footed Green Long-legged Fly	W	C/L	L	C/L	Wetland	Wetlands and roughs	2
<i>Dolichopus plumipes</i>	Feather-on-stick Green Long-legged Fly	T	C/L	L	C	Wood edge	Damper grassland and wood edge	8
<i>Dolichopus popularis</i>	White-toed Green Long-legged Fly	T	C	L	C	Wood edge	Damper grassland and wood edge	2
<i>Dolichopus trivialis</i>	Green Long-legged Fly	T	C/L	VL	C	Roughs	Wastes, grasslands, woods, wetlands, gardens	1
<i>Dolichopus unguatus</i>	Green Long-legged Fly	T	C/L	VL		Wood edge	Damper grassland and wood edge	2
<i>Sympycnus pulicarius</i>	Flea Green Long-legged Fly	T	C/L	VL	C	Flower meadows	Open, grassy habitats	8
<i>Bicellaria vana</i>	Dance Fly	T	C/L	L	C/L	Wood edge	Woods, roughs, wastes, gardens	9
<i>Empis bicuspidata</i>	Bones Dagger Fly	T	L	VL	VL	Flower meadows	Hedges and flowery meadows	10
<i>Empis livida</i>	Large Short-veined Dagger Fly	T	C	C	C	Wood edge	Hedgerows, scrub edges	4
<i>Empis nigripes</i>	Spanner Dagger Fly	T	C/L	L	C	Wood edge	Woodland, grassland, wetland	6
<i>Empis nuntia</i>	Looped Dagger Fly	T	C/L	VL	L	Roughs	Wastes, grasslands, wetlands	3
<i>Empis opaca</i>	Pale-legged Gift-bearing Dagger Fly	T	L	C/L	L	Wood edge	Hedges/wood edge taking pollen, insects	5
<i>Empis praevia</i>	Trumpet Dagger Fly	T	L	VL	L	Wood edge	Wastes, woods, acid grass	4
<i>Empis punctata</i>	Grey-backed Yellow Dagger Fly	T	C/L	VL	VL	Wood edge	Hedges and flowery meadows	2
<i>Empis stercorea</i>	Concave Yellow Dagger Fly	T	C/L	L	L	Flower meadows	Lush grassy places	2
<i>Empis tessellata</i>	Largest (Tesselated) Dagger Fly	T	C	L	C	Wood edge	Hedges, wood edge, umbellifers	2
<i>Empis trigramma</i>	Ruddy-backed Yellow Dagger Fly	T	C/L	L	C/L	Wood edge	Hedges, well-vegetated areas, Hawthorn	4
<i>Hilara albipennis</i>	Milky Balloon Fly	W+	VL	NC(1921)	VL	Wetland	Wood, semi-natural grassland, wetland	2
<i>Hilara cornicula</i>	Slug-headed Balloon Fly	W+	C/L	VL	C/L	Wetland	Wetlands and scrub	3
<i>Hilara hirtipes</i>	Bifid-tipped Balloon Fly	T	L	NC	VL	Wood edge	Woodland and hedges	1
<i>Hilara maura</i>	Dark-hooked Balloon Fly	W+	C/L	VL	C/L	Wetland	Vegetation near water	3
<i>Hilara quadrifasciata (quadrivittata)</i>	Balloon Fly	W+	VL	VL	L	Wetland	Vegetation near water. Hedges	4
<i>Ocydromia glabricula</i>	Yellow Black Thorax Dance Fly	T	C	VL	C	Wood edge	Damp or shady places. Larvae in dung	1
<i>Platypalpus longicornis</i>	Long-antennaed Dance Fly	T	C/L	VL	C/L	Wood edge	Tall herb and scrub mostly	1
<i>Platypalpus (unidentified females)</i>	Dance Fly							5
<i>Lonchoptera lutea</i>	Yellow Spear-winged Fly	T	C	C	C	Roughs	Leaf litter; nectar; open habitats	5
<i>Phoridae</i>	Scuttle Flies	T					Multiple strategies	4
<i>Eudorylas sp</i>	Big-headed Fly	T						1
<i>Pipunculus campestris</i>	Striped Big-headed Fly	T	C/L	NC	L	Wood edge	Brambles on wood edges	2
<i>Dryomyza anilis</i>	Large Ruddy Dromyzid Fly	T	C	C/L	C	Wood edge	Dung, carrion, fungi, shady habitats	3

19 Acalypterate Fly taxa:

<i>Chamaepsila obscuritarsis</i>	Baldwin's Columbina Fly	T	C/L	VL	NC	Flower meadows	Hedges and flowery meadows	3
<i>Chamaepsila rosae</i>	Carrot Rust Fly	T+	C/L	VL	L	Roughs	Umbellifers including root crops	1
<i>Tricholauxania praeusta</i>	Pale-marked Hairy-veined Lauxanid Fly	T	C	L	C	Wood edge	Hedges, well-vegetated areas, umbels	4
<i>Geomyza tripunctata</i>	Round-tipped Geomyza Fly	T	C	C/L	C	Roughs	Grasslands, woods, cereal fields	1
<i>Opomyza germinationis</i>	Marked-wing Spotted Red Cereal Fly	T	C	C/L	C	Roughs	Moist habitats, grass, leaf litter	5
<i>Opomyza petrei</i>	Marked-wing Striped Red Cereal Fly	T	C	C/L	C	Roughs	Unmanaged grassland, roughs, wastes	1
<i>Palloptera quinquemaculata</i>	Five-spotted Orange Trembling-wing Fly	T	C/L	VL	C/L	Wood edge	Wood margins Hogweed Cow-parsley	2
<i>Sepsis cynipsea</i>	Ensign Fly with two humps on tibia	T	C	C/L	C	Pasture	Tall veg. Larvae in cow dung	3
<i>Sepsis flavimana</i>	Ensign Fly with narrowed tibia	T	C/L	VL	C	Pasture	Tall veg. Larvae in cow dung	5
<i>Sepsis fulgens</i>	Ensign Fly with two-spined prominence	T	C	L	C	Pasture	Tall herb. Larvae in dung	4
<i>Sepsis neocynipsea</i>	Ensign Fly with spine & bump	T	C	NC	NC	Pasture	Tall veg. Larvae in cow & sheep dung	2
<i>Sepsis orthocnemis</i>	Ensign Fly with fore group of two spines	T	C/L	L	C	Pasture	Tall herb. Larvae in cow dung	1
<i>Drosophilidae</i>	Fruit Flies	T						2
<i>Hydrellia maura</i> (Martin Drake)	Shore Fly	W	C	NC	C/L	Wetland	Pasture, wetlands	1
<i>Scatella stagnalis</i>	Larger Spot-winged Shore Fly	W	C/L	NC	C	Wetland	Wetland	2
<i>Thaumatomyia & c</i>	Yellow Swarming Grass Fly (Chloropidae)	T				Roughs	Permanent grasslands	8
<i>Chloropidae</i>	Triangular-head mark minute yellow and brown flies	T					Multiple strategies	2
<i>Sphaeroceridae</i>	Lesser Dung Fly	T				Roughs	Larvae in rotting organics	6
<i>Copromyza equina</i>	M-headed Lesser Dung Fly	T	C/L	VL	C/L	Flower meadows	Horse, sheep, cow &c dung.	1
4 Calypterate Fly taxa:								
<i>Cleigastra apicalis</i>	Yellow-legged Reedbed Dung Fly	W	L	NC	L	Wetland	Phragmites, Typha, moth associate	1
<i>Scathophaga furcata</i>	Dark-front-femur Dung Fly	T	C/L	C/L	C	Pasture	Sheep Dung, Dog, Human	6
<i>Scathophaga stercoraria</i>	Yellow Dung Fly	T	C	C/L	C	Flower meadows	Cow pats, pollen, predators	9
<i>Scathophaga suilla</i>	Pale Yellow Dung Fly	T	C/L	L	L	Flower meadows	Farmland. Larvae unknown.	6
THYSANOPTERA:		THUNDERFLIES: 1 taxa:						
<i>Thrip</i>	Brown (winged) Thrip	T	?	?	?	Flower meadows	Flowers/grasses	7
COLLEMBOLA:		SPRINGTAILS: 10 species:						
<i>Allacma fusca</i>	Large Dark Brown Squart Springtail	T	CW	VL	VL	Roughs	Surface debris, low vegetation	1
<i>Dicyrtomina ornata</i>	Patterned Squat Springtail	T	WCW	VL	L	Roughs	Surface debris, low vegetation	1
<i>Dicyrtomina saundersi</i>	Blue-masted Yellow Squat Springtail	T	VC	VL	L	Roughs	Surface debris, low vegetation	1
<i>Sminthurus viridis</i>	Clover Springtail	T	VCW	NC	Vla	Roughs	Grasses and shrubs	10
<i>Isotomurus graminis (prasinus)</i>	Greenish Springtail	W	C?	NC	L	Wetland	Wet habitats	3
<i>Isotomurus plumosus</i>	Banded Springtail	W	C	VL	L	Wetland	Wet habitat edge	2
<i>Lepidocyrtus curvicollis</i>	Yellow Humped Springtail	T	CW	NC	L	Roughs	Surface debris, low vegetation	1
<i>Orchesella cincta</i>	Dark-headed Patterned Springtail	T	VC	C	C	Roughs	Surface debris, low vegetation	1
<i>Pogonognathellus longicornis</i>	Coil-antennaed Yellow Springtail	W+	VCW	C	C	Wetland	Surface debris, low vegetation, marsh, garden	1

Tomocerus minor

Trident Brown
Springtail

W+

VCW

C

C

Wetland

Surface debris, low
vegetation, marsh, garden

2

Column C uses W for Wetland, A for Aquatic, T for Terrestrial Habitats. Column F gives an abbreviated habitat. Column G gives habitat per literature.

Column D gives the status in England and Wales, from UK JNCC Taxon list supplemented by the literature (esp if no Review).

Columns E & F uses online atlases, iRecord, NBN Atlas, and rECOrd (Cheshire) to give an England/Wales status, a GM status and a Cheshire status.

C = Common; L = Local, or scattered records; C/L is some areas many, some few or none. VL 1-4 other sites in County.

Collembola MVCW = Moderately Very Common Widespread.

A relates to Alien species - all are naturalised.

The official scarcity status is given in Column C:

RDB 1 – species appear in the Red Data Book and are categorised as endangered;

RDB 2 – species appear in the Red Data Book and are categorised as vulnerable;

RDB 3 – species appear in the Red Data Book and are categorised as rare;

RDB K – species appear in the Red Data Book but the status is unknown, although they are thought to be rare;

pRDB 1 – species are likely to appear in the Red Data Book and be categorised as endangered;

pRDB 2 – species are likely to appear in the Red Data Book and be categorised as vulnerable;

pRDB 3 – species are likely to appear in the Red Data Book and be categorised as rare;

NN/NS – species are nationally notable and have been recorded in 16-100 ten kilometre squares in Great Britain.

Na – species are nationally scarce and have been recorded in 16 – 30 ten kilometre squares in Great Britain;

Nb – species are nationally scarce and have been recorded in 31 – 100 ten kilometre squares in Great Britain

NC is given there is only one record in Greater Manchester or Cheshire

Un - literature states uncommon but no status assigned.

* refers reader to the final report

