

ELTON GOIT INVERTEBRATE SURVEY 2020-2022. FLOOD PLAIN-GRAZING MARSH, LOWLAND MEADOW, CHEGD GRASSLAND. REISSUE OF REPORT OF OCTOBER 2022 IN FRESH FORMAT.

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Methods

Survey work commenced in the autumn of 2020 with the setting of pitfall traps, pan traps and hanging bottle-traps. In addition a vacuum was used later on in selected areas. A butterfly net and canvas bag were employed to sweep vegetation. Dung was examined for Dung Beetles. All of the work was carried out in the autumn of 2020, 2021 and 2022. A pond was used to search for aquatic invertebrates. The table below is a summary of the spreadsheet records. The survey missed the spring and high summer invertebrate activity. The survey represents a fraction of what could be present.

The site

The site includes Natural England registered Priority Habitat Flood-plain Grazing Marsh, Priority Habitat Lowland Fen, and adjacent Lowland Meadow Priority Habitat. It also includes a field south of Old Hall Farm where samples were collected as part of a training event in a field of Yarrow.

** Brown Hare are abundant in Elton Goit and Old Hall Farm.

** Lapwing breed at Old Hall Farm on the pastureland adjacent the marsh and elsewhere. The marshland is rich in waterside and reedbed birds of importance.

**Flocks of Snipe and Teal and occasional Jack Snipe use the marshland and its pools. 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 aquatic invertebrates. List available.

** Waxcap fungi can be found in good numbers in the semi-improved grassland parts of the site, and in adjacent grasslands. 16 Waxcap taxa recorded to date in vicinity (inc Earthy, Pink, Glutinous, Jubilee also Beige Coral and *Arrhenia peltigerina*).

** the Goit pools support breeding Great Crested Newt, Smooth Newt, Palmate Newt and Frog, whilst Toad breeds in the adjacent canal and lives in the marshland and further afield. Great Crested Newts can be found on the Elton Reservoir embankment south of Old Hall Farm in the early spring after leaving their winter shelters on Old Hall Farm.

**Otter spraints were occasionally found in the habitat whilst sampling. Young and adult seen.

**Part of the site is an embankment to the Manchester, Bury and Bolton Canal and is a large piece of acid grassland, lying alongside the main Goit marsh.

**Goit means a man-made watercourse delivering water to a mill.

**The hydrology is complex and the marshland receives many flows from springs and tile drains from the higher parts of Old Hall Farm, and some of the CHEGD grassland adjacent within Coney Green Farm.

**A Cadent major gas pipeline ruins across the Goit. The Policy Planning at Bury Council originally planned to run a new highway twice across the gas pipeline and also presented plans to sever the gas pipeline safety monitoring equipment and also to dig excavations into the gas pipeline. We have submitted a FOI request to get to the bottom of this negligence.

Policy Planning at Bury Council have now replaced the threat of complete destruction they had planned for the site with threats of hydrological damage from new housing and roadways and also recreational damage – they plan a new footpath between the Canal and the marsh and a cycleway across it so driving away the Snipe population, in spite of declaring that secluded areas would be set aside for wildlife. Any development will lead to destruction of the wildlife friendly farming we have.

There should be a SSSI in this area for we have the largest area of Priority Habitat in Greater Manchester, CHEGD with rare fungi species, amphibians, mammals and this is a major birding hotspot. And here we describe the invertebrate value:

Results

633 taxa were recorded:

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

<i>Allomengea vidua</i>	Complex Money Spider	Nationally Scarce
<i>Limnephilus binotatus</i>	Two-spotted Caddis	Nationally Scarce
<i>Limnephilus hirsutus</i>	Hairy Trickle Caddis	Nationally Scarce
<i>Lygus pratensis</i>	Black-tongued Shining Plant Bug	Red Data Rare
<i>Anoscopus albifrons</i> *	Banded Leafhopper	Nationally Notable B
<i>Aphrophora major</i> *	Largest Fen Froghopper	Nationally Notable B
<i>Loensia variegata/ pearmani</i> *	Fully-mottled Barkfly (damaged)	Uncommon/Rare
<i>Valenzuela atricornis</i> *	Brown-faced Valenzuela Barklouse	Nationally Scarce
<i>Dytiscus circumcinctus</i>	Sharp-spurred Great Diving Beetle	Nationally Scarce
<i>Stenus pusillus</i>	2-hollowed Camphor Beetle	Nationally Notable B
<i>Dixa maculata</i>	Meniscus Midge	Nationally Scarce
<i>Pherbellia griseola</i>	Little Variable Snail-killing Fly	Nationally Notable
<i>Dioxya bidentis</i> *	Long-lipped Picture-winged Fly	Nationally Notable

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

54 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.

105 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

Not surprisingly the species list is largely one of wetlands, given this site is a major component of the fourth biggest (and most diverse) wetland in Greater Manchester. The species list also has plenty of species associated with the flower meadow, pasture and dung, and rough habitat of the grasslands and of the hedgerows and scrub patches (e.g. willow carr and Gorse).

In decades past the Goit fed the East Lancashire Paper Mill. It currently feeds Hutchinson's Goit SBI. Now the intake of water from Elton Reservoir is neither required for industry nor is the supply into the SBI maintained. Thus run off from the fields to the west is highly important. The public footpath is repeatedly interrupted by wet flow. Tile drains cross the fields to the low points and any impact on the drainage sheds will harm the wetlands.

Some other interesting finds:

NW England here refers to the modern Lancashire, Greater Manchester, Merseyside and Cheshire.

Vallonia pulchella the Smooth Glass Snail was located at Old Hall Farm in numbers at the interface between grassland and marsh. It is a greatly declining snail and all of the records in the NW region are very old, being compiled before and during 1965-1998 (Conchological Society of Great Britain & Ireland: non-marine molluscs (1999 Atlas dataset)). iRecord is where modern records are lodged and there are just 14 Great Britain record sites. The nearest modern sites are in Shropshire and Ingleton in Yorkshire from Bury according to NBN Atlas.

Myrmica lobicornis the Lobed-antennae Red Ant was found in the canal acid grassland embankment. There are just 216 records on NBN Atlas and there are four recorded sites in NW England with this species. The only known Greater Manchester site.

The Mayfly *Baetis vernus* has one other Greater Manchester record and as it was ERAP (who did the original poor ecology work for Peel) who made the record it can be discounted. It is a creature of clean streams, usually in the foothills.

The Deceiving Caddis *Limnephilus decipiens* has just 12 other recorded sites in NW England and ours is the only Greater Manchester record.

The Nationally Scarce *Limnephilus hirsutus* the Hairy Trickle Caddis lives in springs with bare substrate and has a habitat provided by the Highland Cattle which churn the clay banks to a pond by the spring.

Dictyla convergens the Forget-me-not Lacebug has only 6 NW England site records on NBN Atlas, iRecord and rECOrd and ours is the only Greater Manchester record.

Orius laevigatus a 4-haired pale-legged Minute Flower Bug has just 9 NW England site records on NBN Atlas, iRecord and rECOrd and ours is the only Greater Manchester record.

Orius niger a 4-haired darker Minute Flower Bug has just 9 NW England site records on NBN Atlas, iRecord and rECOrd and ours is the only Greater Manchester record.

Europiella artemisiae the Mugwort Bug has just 3 NW England site records on NBN Atlas, iRecord and rECOrd and ours is the only Greater Manchester record.

Lygus pratensis the Red Data Book Rare Black-tongued Shining Plant Bug has just 7 NW England site records on NBN Atlas, iRecord and rECOrd and just two Greater Manchester records.

Anoscopus albifrons the Banded Leafhopper has just 9 NW England site records on NBN Atlas, iRecord and rECOrd and ours is the only Greater Manchester site record.

Limotettix striola the Headband Leafhopper has just 4 NW England site records on NBN Atlas, iRecord and rECOrd and ours is the only Greater Manchester site record.

Megophthalmus scanicus the Smooth Cross-faced Leafhopper has just 6 NW England site records on NBN Atlas, iRecord and rECOrd and ours is the only Greater Manchester site record.

Eupteryx cyclops C-marked pale-legged 13 spot Small Leafhopper has just 5 NW England site records on NBN Atlas, iRecord and rECOrd and just two Greater Manchester records.

Notus flavipennis the Yellow Arrow-head Small Leafhopper has just 6 NW England site records on NBN Atlas, iRecord and rECOrd and just two Greater Manchester records.

Florodelphax leptosoma ss the Pale-edged Short-winged Planthopper has just 2 NW England site records on NBN Atlas, iRecord and rECOrd and ours is the only Greater Manchester site record.

Aphrophora major the Largest Fen Froghopper has just 9 NW England site records on NBN Atlas, iRecord and rECOrd and just three Greater Manchester records.

Megalinus glabratus the Red-winged Black Rove Beetle has just 3 NW England site records on NBN Atlas, iRecord and rECOrd and ours is the only Greater Manchester site record.

Quedius schatzmayri the Part-punctured Variegated Rove Beetle has just 8 NW England site records on NBN Atlas, iRecord and rECOrd and ours is the only Greater Manchester site record.

Holotrichapion pisi the Bulging-eyed hairy-nosed Weevil has just 5 NW England site records on NBN Atlas, iRecord and rECOrd and ours is the only Greater Manchester site record.

Aphodius pedellus the Orange-winged dark-fronted Dung Beetle has just 5 NW England site records on NBN Atlas, iRecord and rECOrd and ours is the only Greater Manchester site record.

Bicellaria nigra the Humped Dance Fly has just 4 NW England site records on NBN Atlas, iRecord and rECOrd and ours is the only Greater Manchester site record.

Lonchoptera nitidifrons the Glossy-faced Spear-wing Fly has just 3 NW England site records on NBN Atlas, iRecord and rECOrd and ours is the only Greater Manchester site record (well there was a record from 1939).

There is lots more information on all the species found below:

ELTON GOIT FLOOD PLAIN GRAZING MARSH, RUSH PASTURE, WAXCAP HILL CHEGD,
LOWLAND MEADOW PRIORITY HABITAT, RADCLIFFE, BURY, GREATER MANCHESTER 2020-2022

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No

Methods include direct observation,
canvas bag netting, beating, shaking,
pond netting, vacuuming, pitfall traps,
bottle traps, pan traps.

Explanatory notes at foot of table	Broad Habitat	Eng/W	G M Sta	Chesh	Habitat simplified	Habitat per literature	of plots/Samples
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TOTAL INVERTEBRATE TAXA: 633 taxa

PROTOZOA:

2 taxa:

<i>Zoothamnium</i>	Ovoid-tipped Branched Animacule	A	C			Wetland	Attached to water beetle Canal and river on hard substrate	1
<i>Eunapis fragilis?</i>	Sponge	A				Wetland		1

LUMBRICIDAE:

EARTHWORM : 5 species:

<i>Allolobophora chlorotica</i>	Green Worm	T	C	C/L	L	Flower meadows	Neutral to base-rich grassland	2
<i>Dendrobaena octaedra</i>	Octagonal-tailed Worm	T	C/L		NC*	Wood edge	Leaf litter is habitat & food	1
<i>Eiseniella tetraedra</i>	Square-tailed Worm	W	C	C/L	C	Wetland	Shallow ponds, ditches, marshes	1
<i>Lumbricus rubellus</i>	Red Worm	T	C	C	C	Wood edge	Least habitat specific Earthworm	4
<i>Lumbriculus variegatus</i>	Oligochaete Worm	W	C	C	C	Wetland	Wetland shallows	5

HIRUDINEA:

LEECHES: 4 species

<i>Erpobdella octoculata</i>	Swimming Leech	A	C	C	C	Wetland	Swamps, ponds	4
<i>Glossiphonia complanata</i>	Green Mollusc Leech	A	C	C	C	Wetland	Streams, ponds, swamps with molluscs	3
<i>Haemopsis sanguisuga</i>	Horse Leech	A	L	G	L	Wetland	Ponds	1
<i>Theromyzon tessulatum</i>	Duck Leech	A	C	C	C	Wetland	Permanent Ponds (attacks waterfowl)	2

TRICLADIDA:

FLATWORMS: 3 species

<i>Australoplana sanguinea</i>	Australian Flatworm	T	A	A	A	Roughs	Urban edge, gardens. Eats worms	1
<i>Dendrocoelum lacteum</i>	Milky Flatworm	A	C	C	C	Wetland	Ponds, slow streams	5
<i>Polycelis nigra</i>	Black Flatworm	A	C	C	C	Wetland	Lowland streams, lakes, ponds	8

MOLLUSCA:

SNAILS, MUSSELS & SLUGS: 40 species:

<i>Aegopinella nitidula</i>	Smooth Glass Snail	T	C	C	C	Wood edge	Woods, hedges, gardens, roughs, waste	6
<i>Cepaea hortensis</i>	White-lipped Banded Snail	T	C	C	C	Wood edge	Many habitats, wetter than nemoralis	4
<i>Cepaea nemoralis</i>	Brown-lipped Banded Snail	T	C	C	C	Wood edge	Woods, hedges, calc grasslands	4
<i>Cochlicopa cf lubrica</i>	Slippery Moss Snail	T	C	C	C/L	Wood edge	Woods, hedges, damp grass, wetlands	3
<i>Cornu aspersum</i>	Garden Snail	T	A	C	C	Wood edge	Woods, hedges, gardens	1
<i>Euconulus alderi agg</i>	Tawny Glass Snail	W	C/L	L	L	Wetland	Wetlands	6
<i>Monacha cantiana</i>	Pink Kentish Snail	T	A	L	C	Roughs	Roadside, railways, rough ground	1
<i>Nesovitrea hammonis</i>	Rayed Glass Snail	T	C	C?	C?	Wood edge	Widespread + acid woods	2
<i>Oxychilus sp</i>					C			2
<i>Vallonia pulchella</i>	Smooth Glass Snail	T	L	NC (1965?)	NC?	Wetlands	Damp open habitats, wetlands, near ditches	2
<i>Zonitoides nitidus</i>	Shiny Glass Snail	W	C	L	C	Wetlands	Wetlands, river banks, marsh in woods	2

<i>Oxyloma elegans</i>	Pfeiffer's Amber Snail	W	C	C	C	Wetland	Wetlands	12	
<i>Valvata cristata</i>	Flat Valve Snail	A	C/L	VL	L	Wetland	Still/slow weedy wetlands/streams	2	
<i>Anisus vortex</i>	Whirlpool Ramshorn	A	C	C	C	Wetland	Permanent ponds, canals, lakes	6	
<i>Bathynomphalus contortus</i>	Twisted Ramshorn	A	C	L	L	Wetland	Mostly swampy ponds, also lakes, streams	5	
<i>Planorbarius corneus</i>	Great Ramshorn	A	C	C	C	Wetland	Ponds, canals, lakes	4	
<i>Planorbis carinatus</i>	Keeled Ramshorn	A	C	C	C	Wetland	Streams, river, ponds, lakes	5	
<i>Galba truncatula</i>	Dwarf Pond Snail	W	C	C	C	Wetland	Ponds and marshes with some surface water	9	
<i>Physa fontinalis</i>	Common Bladder Snail	A	C	C	C	Wetland	Laker, canals, large ponds	3	
<i>Lymnaea stagnalis</i>	Great Pond Snail	A	C	C	C	Wetland	Lakes, canals, large ponds	2	
<i>Ampullaceana balthica</i> (<i>Lym per</i>)	Wandering Snail	A	C	C	C	Wetland	Ponds	3	
<i>Stagnicola palustris</i>	Marsh Snail	A	C	C	C	Wetland	Swamps	4	
<i>Musculium lacustre</i>	Lake Orb Mussel	A	C	C	C	Wetland	Ponds and wet swamps	1	
<i>Sphaerium corneum</i>	Horny Orb Mussel	A	C	C	C	Wetland	Ponds and lakes	2	
<i>Pisidium (Euglesa) nitidum</i>	Poreless Pea Mussel	A	C	C?	C	Wetland	Ponds and ditches	1	
<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	2	
<i>Pisidium subtruncatum</i> (<i>Euglesa subtruncata</i>)	Short-ended River Pea Mussel	A	C	C?	L	Wetland	Fast streams, fast rivers.	1	
<i>Arion ater</i>	Black Soil Slug	T	C	C/L	C	Roughs	Almost everywhere	3	
<i>Arion hortensis</i>	Purple Soil Slug	T	C	C	C	Roughs	Most habitats	2	
<i>Arion flagellus</i>	Green-soled Slug	T	C	C	C	Roughs	Disturbed habitats, rich soils, moors, woods.	7	
<i>Arion subfuscus</i>	Yellow-slimered Dusky Slug	T	C	C	C	Roughs	All habitats, disturbed or natural	8	
<i>Arion rufus</i>	Large Red Slug	T	C	C	C	Roughs	Almost all habitats	4	
<i>Deroceras reticulatum</i>	Netted Field Slug	T	C	C	C	Roughs	All open habitats (not big wetlands)	5	
<i>Deroceras invadens</i>	Tramp Slug (pale pore)	T	A	C	C	Roughs	Disturbed habitats	5	
<i>Deroceras laeve</i>	Marsh Slug	W	C	C	C	Wetland	Wetlands, also mountains	10	
<i>Limacus maculatus</i>	Green Cellar slug	T	A	C	C	Roughs	Buildings, forestry, farmland	1	
<i>Limax cinereoniger</i>	Ash-black Slug	T	C/L	VL	VL	Wood edge	Woodland. Fungi eater	1	
<i>Tandonia budapestensis</i>	Budapest Keeled Slug	T	A	C	C/L	Wood edge	Disturbed lowlands, wood, paths, ruins	1	
HYMENOPTERA:		BEES, WASPS, ANTS, SAWFLIES:							
5 Ant species:									
<i>Lasius niger</i>	Common Hairy-faced Black Ant	T	C	L	C/L	Roughs	Open habitats	2	
<i>Myrmica lobicornis</i>	Lobed-antennae Red Ant	T	L	NC	NC	Roughs	Moor, lowland heath, roughs, open woods	1	
<i>Myrmica rubra</i>	Short-spined Red Ant	W+	C	L	C	Roughs	Damp open areas preferred	6	
<i>Myrmica ruginodis</i>	Long-spined Red Ant	T	C	C/L	C	Roughs	Most habitats, rural or urban	3	
<i>Myrmica scabrinodis</i>	Right-angle-antennaed Red Ant	W+	C/L	L	L	Wetlands	Many natural habitats, bogs.	5	
9 Bee species:									
<i>Andrena clarkella</i>	Clarke's Mining Bee	T	C/L	C/L	C/L	Roughs	Open woods, heaths, moors, gravel pits	1	
<i>Andrena cineraria</i>	Ashy Mining Bee	T	C	C	C/L	Wood edge	open woods, moors, river banks, quarries	1	
<i>Andrena fulva</i>	Tawny Mining Bee	T	C	C/L	C/L	Flower meadows	Open grasslands, open woodland	2	

<i>Apis mellifera</i>	Honey Bee	T	A	C	C	Flower meadows	Domesticated; some feral colonies	4
<i>Bombus lucorum</i> (<i>stricto</i>)	White-tailed Bumblebee	T	C	C/L	C	Flower meadows	Most habitats except uplands	1
<i>Bombus pascuorum</i>	Common Carder Bee	T	C	C	C	Flower meadows	Wide variety of habitats	2
<i>Bombus terrestris</i>	Buff-tailed Bumblebee	T	C	C	C	Flower meadows	Most habitats inc urban, not montane	2
<i>Halictus rubicundus</i>	Orange-legged Furrow Bee	T	C/L	L	L	Flower meadows	Wide variety, esp south facing bare banks	1
<i>Nomada leucophthalma</i>	Early Nomad Bee	H+	C/L	L	L	Roughs	With <i>A. clarkella</i> : open woods, heaths, moors	1
10 other Hymenoptera taxa:								
<i>Anoplius nigerrimus</i>	Spider Hunting Wasp	T	C/L	VL	L	Roughs	Associated with dry grassland & scrub	1
<i>Vesputula germanica</i>	German Wasp	T	C/L	C/L	C/L	Wood edge	Underground nest; predatory; flowers	3
<i>Vesputula vulgaris</i>	Common Wasp	T	C	C	C	Wood edge	Open habitats/urban.	4
<i>Ichneumon</i> (numerous species)		T					Burrows, buildings, trees.	16
<i>Polysphincta?</i>	Ichneumon larva on Araneidae	T					Parasite on spiders	1
<i>Micro wasps</i> (numerous species)		T						11
<i>Andricus quercuscalicis</i>	Oak Knopper Gall Wasp	T	A	C	C	Wood edge	Oak trees	1
<i>Gelis sp</i> (several species)	Wingless Ichneumon	T						2
<i>Athalia cordata</i>	Yellow and Black Sawfly	T	C/L	VL	L	Roughs	Plantain etc	1
<i>Tenthredo mesomela</i>	Common Green Tenthredo Sawfly	T	C	L	C/L	Roughs	Willow, buttercup, willowherbs, dock etc	1
MYRIAPODA: CENTIPEDES & MILLIPEDES: 8 species:								
<i>Cylindroiulus punctatus</i>	Lesser Club-tailed Millipede	H+	C	C/L	C	Wood edge	Woodland + sandy heathland	1
<i>Cylindroiulus cf. britannicus</i>	a Club-tailed Millipede	T	C	C	C	Wood edge	Decaying trees, compost heaps	1
<i>Julus scandinavicus</i>	Long-tailed Scored Brown Millipede	H+	C	L	L	Roughs	Acidic, uncultivated land	2
<i>Ommatoiulus sabulosus</i>	Common Stocky Striped Millipede	H+	C	L	C/L	Roughs	Sandy soils, acid woods, heaths, any habitat	1
<i>Ophiulus pilosus</i>	Hairy Millipede	T	C	L	C/L	Wood edge	Deciduous Woodlands	1
<i>Polydesmus cf. angustus</i>	Toothed Flat-backed Millipede	H+	C	C	C	Wood edge	Woods, roughs, esp heaths +moors	2
<i>Geophilus insculptus</i>	Common Geophilus Centipede	T	C/L	NC	L	Roughs	Variety of urban & rural habitats	1
<i>Lithobius forficatus</i>	Common Lithobius Centipede	T	C	C	C	Roughs	Urban, suburban, many rural areas	2
ORTHOPTEROIDEA: GRASSHOPPERS (+ EARWIG): 4 species:								
<i>Omocestus viridulus</i>	Common Green Grasshopper	T	C	C/L	C/L	Roughs	Old grassland, damp meadows, rides	4
<i>Tetrix subulata</i>	Slender Groundhopper	W	C/L	C/L	C	Wetland	Wetland edge habitats	1
<i>Tetrix undulata</i>	Common (Crested) Groundhopper	H+W+	C	VL	C	Wetland	Wetland, heath, moist forest, bare areas	1
<i>Forficula auricularia</i>	Common Earwig	T	C	C	C	Wood edge	Forests, agricultural, suburban areas	2
ARACHNIDA: SPIDERS, HARVESTMEN, MITES:								
58 Spider species:								
<i>Amaurobius similis</i>	Similar Laceweb Spider	T	C/L	C/L	C/L	Wood edge	By /in houses, bark, logs, stones, bushes	1
<i>Antistea elegans</i>	Marsh Combtail	W	C/L	L	L	Wetland	Reeds, marshes, bogs	3
<i>Argyroneta aquatica</i>	Water Spider	A	L	L	L	Wetland	Ponds, lakes, canals	1
<i>Agalenatea redii</i>	Ruddy Orbweb Spider	H+	L	VL	L	Roughs	Heather, Gorse, roughs, damp grass	3
<i>Araneus diadematus</i>	Garden Cross Orb-web Spider	T	C	C	C	Roughs	Wide range of habitats	2
<i>Araneus quadratus</i>	4-spot Orb-web Spider	T	C/L	C	C	Roughs	Tall grasses, heather, gorse	2

<i>Eratigena (Tegenaria) saeva</i>	Large House Spider	T	C/L	L	C/L	House, garden, tree trunks, rocks		1
<i>Larinioides cornutus</i>	Shield Orb-web Spider	W	C	C	C	Wetland	Marshes, reeds, damp grass	7
<i>Dictyna arundinacea</i>	Yellow & Brown Meshweaver Spider	H+	C/L	L	C/L	Wood edge	Roughs, wood edges, hedges, Gorse/Heather	4
<i>Ero cambridgei</i>	Pirate Spider	T	C	VL	L	Wood edge	Bushes, trees low vegetation	1
<i>Pirata piraticus</i>	Cabin Hooks Otter Spider	W	C	C	C	Wetland	Wetlands, bogs	3
<i>Pardosa amentata (very banded)</i>	Lump-hammer Wolf Spider	T	C	L	C	Roughs	Wide range, inc gardens	6
<i>Pardosa pullata</i>	Bolster-chisel Wolf Spider	H+	C	C/L	C	Roughs	Grass, heath, moor, woods, waste	3
<i>Trochosa terricola</i>	Dark-fore-legged Wolf Spider	T	C	C/L	C/L	Roughs	Woods, roughs, heaths, wastes	1
<i>Pisaura mirabilis</i>	Nurseryweb Spider	H+	C/L	C	C	Roughs	Grassland, heaths, open woods	1
<i>Clubiona diversa</i>	Hoof-palped Yellow Sac Spider	W	L	L	L	Wetland	Dry habitats in South Eng, bogs in North	1
<i>Clubiona phragmitis</i>	Reedbed Sac Spider	W	C/L	L	C	Wetland	Wetlands	4
<i>Clubiona reclusa</i>	Red Brown Paper Fan Sac Spider	T	C	C/L	C	Wetland	Low veg, tall herb, damp, many sites	3
<i>Euophrys frontalis</i>	a Jumping Spider	T	C/L	L	C/L	Roughs	Leaf litter, stones, debris: roughs + woods	1
<i>Salticus scenicus</i>	Wall Jumping Spider	T	C/L	C	C/L	Roughs	Mainly houses, also rocks, posts, bark	1
<i>Metellina menzei</i>	Stripe-bellied Spider	T	C	C/L	C	Wood edge	Bushes, vegetation etc to 2m	1
<i>Metellina merianae</i>	Banded-legged Spider	W	C	C/L	C/L	Wetland	By streams, caves, damp woods	1
<i>Pachygnatha clerki</i>	Tooth-fanged Long-jawed Hunting Spider	W	C	C	C	Wetland	Marshes. By water	9
<i>Pachygnatha degeeri</i>	Least Long-jawed Hunting Spider	T	C	C/L	C/L	Wood edge	Woodland rides to derelict land	4
<i>Tetragnatha extensa</i>	Banded V-marked Long-jawed Web-spinner	W	C	C	C	Wetland	Low veg close to/ over water	10
<i>Tetragnatha montana</i>	Paler solid-coloured Long-jawed Web-spinner	T	C	C	C	Wood edge	Low veg, bushes, trees	4
<i>Tibellus oblongus</i>	Less-spotted Tibellus	H+	C/L	L	L	Roughs	Roughs, marshland, heaths	1
<i>Neottiura bimaculata</i>	Three-banded Therid Spider	T	C/L	C/L	C	Wood edge	Low veg, bushes, trees	3
<i>Phylloneta sisypbia</i>	Mothercare (net-patterned) Therid Spider	H+	C/L	C/L	C	Wood edge	Gorse + Heather, also scrub + tall herb	2
<i>Theridion cf pictum</i>	Red-arrowed Therid Spider	T	L	VL	L	Wood edge	Wetland, roughs, scrub	1
<i>Robertus lividus</i>	Small Brown Spider	T	C	L	L	Roughs	Ground layer many habitats	1
<i>Philodromus aureolus group</i>	Running Crab Spider juveniles							2
<i>Xysticus cristatus</i>	Common Anchor Crab Spider	T	C	C/L	C	Roughs	Low vegetation but not woodland	8
<i>Agyneta decora (R Gallon)</i>	Spanner-tipped Cone-palp Money Spider	T	L	VL	VL	Roughs	Heaths, roughs, woods, wetlands	1
<i>Allomengea vidua</i>	Complex Money Spider	W	NS	VL	VL	Wetland	Swamp, fen, marsh	1
<i>Bathyphantes approximatus</i>	Moustached Money Spider	W	L	C/L	C	Wetland	Ground layer in wetlands/wet woodland	7
<i>Bathyphantes gracilis</i>	Wide-loop Money Spider	T	C	C	C	Roughs	Roughs, heaths, woods, marsh	2
<i>Bathyphantes parvulus</i>	No-loop Money Spider	W+	C/L	L	L	Wetland	Grassland - acid, chalk, heath, marsh	2

<i>Ceratinella brevipēs</i>	Small-capped-abdomen Money Spider	W+	C	L	L	Wood edge	Woods, heath, grassland, wetland	1
<i>Centromerita concinna</i>	Hairy-wristed Brown Money Spider	W+	L	L	L	Wetland	Woodland, wetland, heath, moor	1
<i>Cnephalocotes obscurus</i>	Saw-edged-palp Black/Yellow Money spider	T	C/L	C/L	C/L	Roughs	Detritus, moss, other vegetation	2
<i>Diplocephaus permixtus</i>	Groove-faced Money Spider	W	C/L	C/L	C/L	Wetland	Wide variety of marshy habitats	3
<i>Dismodicus bifrons</i>	Squat Black Money Spider	T	C	C/L	C/L	Roughs	Roughs, fens, scrub	1
<i>Erigone atra</i>	Aeronaut Money Spider	T	C	C/L	C	Roughs	Aeronaut. Many wild habitats	1
<i>Erigone dentipalpis</i>	Armoured Money Spider	T	C	C/L	C	Roughs	All manner of habitats	2
<i>Gnathonarium dentatum</i>	Pelican-palped Money Spider	W	C/L	L	C/L	Wetland	Lowland wetlands, inundation grassland	12
<i>Hypomma bituberculatum</i>	Orange & Grey Yellow-legged Money Spider	W	C	C	C	Wetland Wood edge	Swamps by rivers & ponds	8
<i>Linyphia triangularis</i>	Oakleaf-patterened Linyphid Spider	T	C	C/L	C	Wood edge	Bushes and low vegetation	5
<i>Lophomma punctatum</i>	Punctured Money Spider	W	C/L	L	C/L	Wetland	Carr, bog, Phragmites reedbed	3
<i>Microlinyphia pusilla</i>	Brown spotted Linyphid Spider	W	C	L	C	Wetland Wood edge	Roughs, damp grassland	1
<i>Neriere clathrata</i>	W-marked Linyphid Spider	T	C/L	C/L	C	Wood edge	Wide range in leaf litter and low veg	1
<i>Oedothis fuscus</i>	Brown Money Spider (seen by Rich Burkmar)	T	C	C/L	C	Roughs	Grassland, wetland, woodland, heath	6
<i>Oedothis retusus</i>	Two-pitted Money Spider	T	C	C/L	C	Roughs	Grassland, farmland grass	3
<i>Pelecopsis parallelus</i>	Scuttumed Fingered Money Spider	T	C/L	VL	VL	Flower meadows	Grasslands, moss, detritus, stones	1
<i>Tallusia experta</i>	Fingered Money Spider	W	C/L	VL	L	Wetland	Carr, bog, fen, reeds, wet meadows	5
<i>Tenuiphantes tenuis</i>	Bolas Linyphid Spider (was Lepthy..)	T	C	C/L	C	Roughs	Low veg, moss, leaf litter, grassland, wetland	5
<i>Tenuiphantes zimmermanni</i>	Spots-n-stripes Linyphid Spider (was Lepthy..)	H+	C	C/L	C	Wood edge	Litter and logs in Woods. Heaths	2
<i>Walckenaeria unicornis</i>	Unicorn Money Spider	W	C/L	C/L	C/L	Wetland	Marshy veg and tall herb and scrub	1
7 Harvestman species:								
<i>Leiobunum blackwalli</i>	Smooth-faced Harvestman	T	C	C/L	L/C	Wood edge	Most habitats esp woods, gardens	1
<i>Leiobunum rotundum</i>	Orange & Black Harvestman	H+	C	L	C	Wood edge	Woods, hedges, rocks, gardens, heath	1
<i>Nemastoma bimaculatum</i>	Two-spot Harvestman	T	C	C	C	Roughs Wood edge	Most habitats inc woods and roughs	1
<i>Oligolophus hanseni</i>	Dark-eyed Harvestman	T	C/L	VL	L	Wood edge	Woodlands, Wooded gardens	2
<i>Oligolophus tridens</i>	Short-saddled Harvestman	T	C	L	C	Roughs	Most habitats, woods, gardens, roughs	5
<i>Paroligolophus agrestis</i>	Pincered Harvestman	T	C	C	C	Roughs	Most habitats inc woods and roughs	3
<i>Platybunus (Rilaena) triangularis</i>	Low-crowned Harvestman	T	C	C/L	C/L	Wood edge	Wood, grassland, bushes	1
12 Mite taxa:								
<i>Camisiidae</i>	Three-lined fringed Beetle Mite	T				Roughs	Ground layer	6
<i>Pachylaelapidae</i>	Spurred-leg Mite	T				Roughs	Ground layer	2
<i>Parasitidae</i>	Hard Yellow Mite	T				Roughs	Ground layer	5
<i>Poecilochirus sp</i>	Phoretic Mite	T				Roughs	Ground layer	2
<i>Galumnidae</i>	50/50 on beetles Forward-pointed-wing Mite	T				Roughs	Ground layer	1
<i>Mycobatidae</i>	Round-winged Mite					Roughs	Ground layer	1

<i>Euzetes globulus (nitens?)</i>	1mm Large Helmet Mite	T	C	C?	C	Roughs	Ground layer	3
<i>Damaeus sp</i>	Hairy-legged Mite	T				Roughs	Ground layer	1
<i>Bdellidae</i>	Snout Mite	T				Roughs	Ground layer	4
<i>Erythraeidae</i>	1.5mm Soft Red Velvet Mite	T				Roughs	Ground layer	2
<i>Olgasamidae</i>	50/50 orange hard Mushroom Gall					Roughs	Ground layer	1
<i>Aceria iteina</i>	Grey Willow Mite	W	L?	L?	L?	Wetland	On Grey Willow	1
MICROCRUSTACEA:	MICROCRUSTACEANS: 7 taxa							
<i>Daphnia pulex</i>	Few-spined Water Flea	A	C	C	C	Wetland	Small ponds and ditches	3
<i>Euryercus lamellatus</i>	Notch-footed Water Flea	A	C/L	L	L	Wetland	Lakes and large ponds; slow rivers	5
<i>Simocephalus expinosus</i>	Blob-eyed Water Flea	A	C	C	C	Wetland	Small ponds and ditches	2
<i>Simocephalus vetulus</i>	Elongate-eyed Water Flea	A	C	C	C	Wetland	Small ponds and ditches	4
<i>Cyclops spp</i>	Cyclopic Copepods	A				Wetland	Standing waters/wet marshes	7
<i>Heterocypris incongruens</i>	Lined Brown Seed Shrimp	A	C/?	C?	C?	Wetland	Small ponds/ditches, smaller habitats	1
<i>Herpetocypris reptans</i>	Large Marbled Seed Shrimp	A	C	C	C	Wetland	Ponds	6
MALACOSTRACA :	CRUSTACEANS: 7 species:							
<i>Asellus aquaticus</i>	Common Hoglouse	A	C	C	C	Wetland	Wide variety of waterbodies	9
<i>Crangonyx pseudogracilis</i>	American Freshwater Shrimp	A	A	C	C	Wetland	Wide variety of waterbodies	10
<i>Gammarus pulex (stricto)</i>	Freshwater Shrimp	A	C	C	C	Wetland	Running water mostly/large waterbodies	1
<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>	4
<i>Trichoniscus provisorius agg</i>	Common Pigmy Woodlouse	T	C	C	C	Roughs	Damp soil and deep leaf litter	3
MEGALOPTERA:	LACEWINGS & SCORPION FLIES: 3 species:							
<i>Hemerobius lutescens</i>	a Brown Lacewing	T	C/L	L	C/L	Wood edge	Often associated with deciduous trees	2
<i>Coniopteryx sp (1 of 5 spp)</i>	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	3
EPHEMEROPTERA:	Mayflies: 3 species:							
<i>Baetis rhodani</i>	Common Stream Mayfly	A+	C	C	C	Streams	Riffles in streams & rivers	1
<i>Baetis vernus</i>	Medium Olive Mayfly	A+	C/L	NC	L	Streams	Pools/margins rivers/streams	1
<i>Cloeon dipterum</i>	Pond Olive Mayfly	A+	C	C	C	Wetland	Ponds	2
PLECOPTERA:	Stoneflies: 1 species:							
<i>Nemurella pictetii</i>	Stonefly	A+	C/L	L	L	Wetland	Still or slow water with emergents	1
TRICHOPTERA:	Caddisflies: 10 species:							
<i>Beraea pullata</i>	Two-hook Caddis	A+	C/L	C/L	C/L	Streams	Vegetated marshes, springs, stream edges	3
<i>Chaetopteryx villosa</i>	Hairy round-winged caddis	A+	C	C/L	C/L	Wetland	Stony/weedy streams, rivers, upland lakes	2
<i>Glyphotaelius pellucidus</i>	Mottled Sedge Caddis	A+	C	C/L	C	Wetland	Still/slow water with fallen leaves	4
<i>Limnephilus binotatus</i>	Two-spotted Caddis	A+	NS	L	L	Wetland	Ponds, fens, reedswamps drying in summer	1
<i>Limnephilus flavicornis</i>	Golden-horned Caddis	A+	C	C	C	Wetland	Ponds	1
<i>Limnephilus marmoratus</i>	Marbled Caddis (L fav gp)	A+	C	C	C	Wetland	Ponds	2

<i>Dictyla convergens</i>	Forget-me-not Lacebug	W+	L	NC	NC(1986)	Wetland	Water Forget-me-not flowers	1	
1 Rhopalid Bug species:									
<i>Myrmus miriformis</i>	Red and Green Rhopalid Bug	T	C/L	VL	NC	Wetland	Grass leaves/seeds dry/damp grassland	1	
4 Flower Bug species:									
<i>Anthocoris nemorum</i>	2-spotted all-shining Flower Bug	T	C	C	C	Roughs	Lower vegetation with insects	3	
<i>Orius laevigatus</i>	4-haired pale-legged Minute Flower Bug	T	L	VL	VL	Roughs	Grasslands, roughs	1	
<i>Orius niger</i>	4-haired mostly-dark Minute Flower Bug	H+	L	NC	VL	Roughs	Low vegetation, heaths	1	
<i>Orius majusculus</i>	Unhaired Minute Flower Bug	W	L	NC	L	Roughs	Wetlands, grasslands, roughs	1	
15 Plant Bug species:									
<i>Apolygus lucorum</i>	Mugwort Plant Bug	T	C/L	VL	VL	Roughs	Nettle, Mugwort, Hemp-agrimony	1	
<i>Bryocoris pteridis</i>	Long-antennaed Fern Bug	T	C/L	L	L	Wood edge	Damp woodlands with ferns	1	
<i>Cyrtorhinus caricis</i>	Green & Brown Plant Bug	W	L	VL	VL	Wetlands	Wetlands, sedges, rushes	1	
<i>Dicyphus epilobii</i>	Red-antennaed Willowherb Plant Bug	T/W	C/L	VL	C/L	Wetland	Great Willowherb (damp areas)	1	
<i>Europiella artemisiae</i>	Mugwort Bug	T	L	NC	NC	Roughs	Mugwort	1	
<i>Liocoris tripustulatus</i>	Three-spotted Nettle Plant Bug	T	C	C	C	Wood edge	Nettles	4	
<i>Lygocoris pabulinus</i>	Common Green Capsid (pale tibia spines)	T	C	L	C	Wood edge	Woody plants + herbs esp nettles	1	
<i>Lygus pratensis</i>	Black-tongued Shining Plant Bug	T	RDB3	VL	VL	Roughs	Southern heaths now expanding range	1	
<i>Lygus rugulipennis</i>	Long-haired Tarnished Plant Bug	T	C	C/L	C	Wood edge	Wide variety of herbs & shrubs	4	
<i>Monalocoris filicis</i>	Short-antennaed Bracken Bug	T	C/L	L	L	Wood edge	Ferns	1	
<i>Notostira elongata</i>	Dimorphic Hairy Unpunctured Grassbug	T	C/L	C/L	C	Roughs	Grasslands	4	
<i>Orthops campestris</i>	Brown-spotted Green Green-heart Bug	T	C/L	L	L	Roughs	Umbellifers	1	
<i>Plagiognathus chrysanthemi</i>	Green Spotted-legged Grassbug	T	C/L	L	L	Flower meadows	Grass & wastelands: Asteraceae	4	
<i>Stenodema calcarata</i>	2-spurred Punctured Grassbug	T	C	L	C	Roughs	Grass seeds	4	
<i>Stenodema laevigata</i>	Unspurred Punctured Grassbug	W	C	L	C	Wetland	Damp areas - grass seeds	1	
5 Ground Bug species:									
<i>Cymus melanocephalus</i>	Punctured Dark-scutellum Ground Bug	W	C	L	L	Wetland	Damp areas trefoil, loosestrife, rush	6	
<i>Heterogaster urticae</i>	Grey Nettle Bug	T	C/L	L	L	Wood edge	Nettles	1	
<i>Ischnodemus sabuleti</i>	European Chinchbug	W+	C/L	L	C/L	Wetland	Wetland grass/reeds - migrating to drier grasses	8	
<i>Kleidocerys resedae</i>	Birch Catkin Bug	H+	C	C	C	Wood edge	Birch	1	
<i>Stygnocoris sabulosus</i>	Shiny Hairy Yellow-legged Ground Bug	H+	C/L	VL	VL	Heaths	Dry habitats, sandy soils	4	
4 Damselbug species:									
<i>Himacerus major</i>	Grey Damselbug (dark striped femurs)	W+	C/L	VL	L	Wetland	Grassy habitats, inc dunes & salt marshes	2	

<i>Nabis ferus</i>	Hairy Grey Field Damselbug	T	C/L	L	L	Roughs	Dry, grassy habitats	2
<i>Nabis flavomarginatus</i>		T	C/L	L	L	Roughs	Grassland, especially damper ones	1
<i>Nabis limbatus</i>	Marsh Damselbug (small-winged broad-edged)	W	C/L	C/L	C	Wetland	Damp grassland/wet meadows	4
1 Stiltbug species:								
<i>Berytinus minor</i>	Pale-kneed Stiltbug	T	L	VL	VL	Flower meadows	Clover & Lesser Trefoil	1
16 Larger Leafhopper species:								
<i>Anoscopus (Aphrodes) albifrons</i>	Banded Leafhopper	T	NB	NC (<60)	VL	Wood edge	Dry grasslands, heaths, open woods	4
<i>Aphrodes makarovi</i>	Pointed-chisel-faced Leafhopper	T	C/L	VL	L	Roughs	Nettles, Dandelions, Thistles	2
<i>Arthaldeus pascuellus</i>	Barbed Leafhopper	T	C/L	VL	VL	Roughs	Grasses, esp drier places	2
<i>Balclutha punctata</i>	Dark-spotted Orange Leafhopper	T	C/L	VL	VL	Wood edge	Clearings in woods	1
<i>Cicadella viridis</i>	Large Green Leafhopper	W	C	C	C	Wetland	Damp grasslands, marshes	9
<i>Cicadula quadrinotata</i>	Long-antennaed 4-spot Leafhopper	T	C/L	VL	L	Wetland	Damp grassland, rush, sedge	3
<i>Conosanus obsoletus</i>	Part-winged Buff Leafhopper	W	C/L	VL	VL	Wetland	Damp habitats with rushes	2
<i>Deltocephalus pulicaris</i>	Bart Simpson Leafhopper	T	C/L	NC	VL	Roughs	Mostly short, dry grassland	3
<i>Euscelis incisus</i>	Mottled Stubby Leafhopper	T	C/L	L	VL	Roughs	Medium most grasslands	1
<i>Limotettix striola</i>	Headband Leafhopper	W	L	NC	NC	Wetland	Sedges, spike-rush, marshes, inc saltmarsh	2
<i>Macrosteles ossiannilssoni?</i>	a 6-spot Smiling Ghost Leafhopper	W	L	NC	NC	Wetland	Peaty grassland, Carex, Juncus	3
<i>Macrosteles sexnotatus</i>	a 6-spot Smiling Ghost Leafhopper	W	C/L	VL	VL	Roughs	Moist open habitats, Juncus, Carex, Clover	1
<i>Macrosteles viridigriseus</i>	a 6-spot Smiling Ghost Leafhopper	W	C/L	VL	VL	Wetland	Marshes, pond margins	3
<i>Macrosteles (females only)</i>	a 6-spot Smiling Ghost Leafhopper	W				Wetland	Marshes, pond margins	
<i>Megophthalmus scanicus</i>	Smooth Cross-faced Leafhopper	T	C/L	NC	NC	Flower meadows	Grasslands. Pea family,	2
<i>Psamnotettix confinis</i>	Red-eyed Goblet Leafhopper	T	C	VL	VL	Wood edge	Woodland glades	5
<i>Streptanus sordidus</i>	Broad Buff Leafhopper Spotted pronotum, brown abdomen	W+	C/L	NC(1918)	VL	Wetland	Damp, grassy places	9
7 Small Leafhopper species:								
<i>Eupteryx aurata</i>	Yellow Arrow Small Leafhopper	T	C	C/L	L	Wood edge	Nettles, Brambles, low vegetation	1
<i>Eupteryx cyclops</i>	C-marked pale-legged 13 spot Small Leafhopper	W	L	VL	NC	Wetland	Nettles / wet areas	1
<i>Eupteryx filicum</i>	Yellow-grey Small Leafhopper	T	L	L	NC	Wood edge	Ferns	1
<i>Eupteryx urticae</i>	C-marked dark-legged 15 spot Small Leafhopper	T	C	C/L	L	Wood edge	Nettles & other low vegetation	4
<i>Notus flavipennis</i>	Yellow Arrow-head Small Leafhopper	W	C/L	VL	NC	Wetland	Sedges in marshes, usually alkaline	1
<i>Ribautiana tenerrima</i>	Yellow-striped Dark-tipped Small Leafhopper	T	C/L	VL	VL	Wood edge	Bramble, Raspberry and sometimes trees	1
<i>Zyginidia scutellaris</i>	3-spotted Yellow Small Leafhopper	T	C/L	VL	VL	Roughs	Rough grass	6
5 Planthopper species:								
<i>Conomelus anceps</i>	Marsh Short-winged Planthopper	W	C	VL	VL	Wetland	Damp areas/ Rushes	9
<i>Florodelphax leptosoma ss</i>	Pale-edged Short-winged Planthopper	W	C/L	NC	NC	Wetland	Range of wetlands	1

<i>Javesella dubia</i>	Stripe-faced Long-winged Planthopper	T	C/L	L	L	Wood edge	Grassy woodlands	1	
<i>Muellerianella fairmairei</i>	3-Banded Long-winged Long-nosed Planthopper	W	C/L	NC(<60)	NC	Wetland	Damp areas. <i>Deschampsia cespitosa</i>	9	
<i>Stenocranus minutus</i>	Long-winged Long-nosed Planthopper	T	C/L	VL	VL	Roughs	Diverse grassy habitats	2	
3 Froghopper species:									
<i>Aphrophora major (alpina)</i>	Largest Fen Froghopper	W	NB	NC	L	Wetland	Nice marshes with willow	1	
<i>Neophilaenus lineatus</i>	Pale-edged rear-spotted Froghopper	T	C	C	C	Roughs	Grassland	3	
<i>Philaenus spumarius</i>	Cuckoospit Froghopper	T	C	C	C	Roughs	Wide range of plants inc gardens	2	
2 Jumping Plant Louse species:									
<i>Livia junctorum (juncki)</i>	Horned Rush Jumping Plant Louse	W	C/L	VL	VL	Wetland	Marshes and wet meadows on Juncus	1	
<i>Trioza urticae</i>	Nettle Jumping Plant Louse	T	C	NC	VL	Wood edge	Nettles etc	2	
7 Greenfly taxa:									
<i>Aphis fabae?</i>	Black Bean Blackfly Aphid	T	C			Wood edge	Spindle, Beans, other pants	1	
<i>Aphis ulicis</i>	Gorse Aphid	T	C			Wood edge	Gorse	1	
<i>Hyalopterus pruni</i>	Mealy Plum Aphid	W	C			Wetland	Prunus & Phragmites	1	
<i>Microlophium carnosum</i>	Large Nettle Aphid	T	C		C?	Wood edge	Nettles	3	
<i>Myzus cymbalariae</i>	Aphid	T	C			Flower meadows	Wide range of plants	1	
<i>Myzus persicae</i>	Green Peach-Potato Aphid. dark feet, dark tip to long siphons	T	C		C?	Flower meadows	Wide range of plants	1	
<i>Aphid spp</i>	Aphid (Misc)	T						10	
PSCOCOPTERA: BARKFLIES: 3 species:									
<i>Ectopsocus briggsi</i>	Less-spotted Barklouse	T	C	C	L	Wood edge	Shrub or tree dead foliage	2	
<i>Loensia variegata/ pearmani</i>	Fully-mottled Barkfly (damaged)	T	Unc/R	VL/NC	VL/NC	Wood edge	Broad-leaved + conifers	1	
<i>Valenzuela atricornis</i>	Brown-faced Valenzuela Barklouse	W+	NS	NC	NC	Wetland	Dry grassland, Reeds, Willows, Hawthorn	1	
LEPIDOPTERA: BUTTERFLIES & MOTHS:									
14 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	3	
<i>Anthocharis cardamines</i>	Orange Tip Butterfly	T	C	C	C	Wetland	Eggs on Allaria & Cuckooflower;	1	
<i>Lycaena phlaeas</i>	Small Copper Butterfly	T	C	C	C	Flower meadows	Eggs on Sorrel & Dock. Flowers	1	
<i>Maniola jurtina</i>	Meadow Brown Butterfly	T	C	C	C	Roughs	Eggs on grasses. Meadows, hedges, open woods.	4	
<i>Ochlodes sylvanus</i>	Large Skipper	T	C	C	C	Roughs	Eggs on grasses. Meadows, hedges, open woods.	3	
<i>Pararge aegeria</i>	Speckled Wood Butterfly	T	C	C	C	Wood edge	Aphid honeydew; lays on tough grasses	3	
<i>Pieris brassicae</i>	Large White Butterfly	T	C	C	C	Flower meadows	Eggs on Brassicas; Adult visits flowers	4	
<i>Pieris napi</i>	Green Veined-white Butterfly	W	C	C	C	Wetland	Eggs on crucifers. Adult: damp grass/marshes	1	
<i>Polygonia c-album</i>	Comma	T	C	C	C	Wood edge	Eggs laid on Nettles, Willows. Adults favour open woods, rides & edges	1	
<i>Polyommatus icarus</i>	Common Blue Butterfly	T	C	C/L	C	Flower meadows	Eggs laid on Bird's-foot Trefoils, Clovers etc. Uses	1	

							meadows and wood clearings etc.	
<i>Pyronia tithonus</i>	Gatekeeper Butterfly	T	C	C	C	Flower meadows	Eggs on grasses; Bramble, Co Fleabane, Ragworts etc	1
<i>Thymelicus sylvestris</i>	Small Skipper Butterfly	T	C	C	C	Roughs	Eggs on Yorkshire Fog.	1
<i>Vanessa atalanta</i>	Red Admiral Butterfly	T	C	C	C	Wood edge	Tall grasses + herbage. Nectar feeder. Lays on Nettles	1
13 Moth taxa:								
<i>Moth or caterpillar</i>		T						
<i>Noctua pronuba</i>	Large Yellow Underwing Moth	T	C	C	C	Wood edge	Range of habitats: Dock, Nettle, Foxglove	1
<i>Noctuidae (other)</i>	caterpillar/damaged Adult	T						1
<i>Anthophila fabriciana</i>	Common Nettle Tap moth caterpillar	T	C	C	C	Wood edge	Lays on Nettles	1
<i>Cataclysta lemmata</i>	Duckweed Moth	A+	C	L	L	Wetland	Larvae feed on and live in Duckweed	2
<i>Coleophora sp</i>	cased micromoth caterpillar	T	C	(L)	(L)	Roughs	Tube-case-bearing larvae in tall vegetation	9
<i>Euthrix potatoria</i>	Drinker Moth Caterpillar	W	C/L	C/L	C/L	Wetland	Marshes and damp grassland	1
<i>Stenoptilia pterodactyla</i>	Brown Plume Moth	T	C/L	VL	L	Wood edge	Germander Speedwell. Wood edge, hedges, verges	1
<i>Geometridae</i>	Looper moth caterpillar							2
<i>Hedya nubiferana</i>	Marbled Orchard Tortrix	T	C/L	C	C	Wood edge	Hedges, gardens, orchards	1
<i>Phalera bucephala</i>	Buff-tip	T	C	C	C	Wood edge	Deciduous trees. Here on	1
<i>Patania ruralis (Pleuroptya)</i>	Mother of Pearl Moth	T	C/L	C/L	C	Wood edge	Nettles	1
<i>Spilosoma lubricipeda</i>	White Ermine Moth	T	C	C/L	C	Wood edge	Nettle, Dock etc	4
<i>Tyria jacobaeae</i>	Yellow & Black Cinnabar Moth caterpillar	T	C	C	C	Roughs	Caterpillars on Ragwort	2
COLEOPTERA: BEETLES:								
31 Water Beetle species:								
<i>Halipus ruficollis</i>	Common Halipus Beetle	A	C	C	C	Wetland	Permanent ponds	2
<i>Dytiscus circumcinctus</i>	Sharp-spurred Great Diving Beetle	A	NS	L	L	Wetland	Permanent larger ponds	1
<i>Dytiscus marginalis</i>	Common Great Diving Beetle	A	C	C	C	Wetland	Permanent ponds	1
<i>Agabus bipustulatus</i>	Common Black Diving Beetle	A	C	C	C	Wetland	Permanent ponds	5
<i>Agabus paludosus</i>	Brown Stream Diving Beetle	A	C	C/L	C/L	Wetland	Slow running water, often watercress, fens	2
<i>Agabus sturmii</i>	Common Brown Pond Diving Beetle	A	C	C	C	Wetland	Permanent ponds	5
<i>Ilybius ater</i>	Larger Black Diving Beetle	A	C	C	C	Wetland	Permanent ponds	1
<i>Ilybius fuliginosus</i>	Side-banded Diving Beetle	A	C	C	C	Wetland	Permanent Ponds	2
<i>Ilybius guttiger</i>	Black Fen Diving Beetle	A	C/L	C/L	C/L	Wetland	Fens, floating mats, marshy ponds	1
<i>Ilybius quadriguttatus</i>	4-gold-spot Black Diving Beetle	A	C/L	C	L	Wetland	Permanent Ponds	5
<i>Rhantus exsoletus</i>	Pale Gold-speckled Diving Beetle	A	C/L	C	C/L	Wetland	Permanent Ponds	2
<i>Rhantus suturalis</i>	3-spot Gold-speckled Diving Beetle	A	C/L	L	L	Wetland	Wide variety of ponds	4
<i>Noterus clavicornis</i>	Boat-shaped Small Diving Beetle	A	C	C	C	Wetland	Permanent Ponds	3
<i>Hydroporus palustris</i>	Black & Gold Small Diving Beetle	A	C	C	C	Wetland	Ponds	1

<i>Laccophilus minutus</i>	Quiet Khaki Diving Beetle	A	C	C	C	Wetland	Permanent Ponds	2	
<i>Anacaena globulus</i>	Brown Domed Scavenger Beetle	W	C	C	C	Wetland	Pond & stream edges, woodland pools	5	
<i>Anacaena limbata</i>	Brown Domed Scavenger Beetle	W	C	C	C	Wetland	Well-vegetated marshes / pond edges	4	
<i>Coelostoma orbiculare</i>	Black Domed Scavenger Beetle	W	C	C/L	C/L	Wetland	Marshes / pond edges	1	
<i>Helophorus brevipalpis</i>	Golden Scavenger Beetle	W	C	C	C	Wetland	Marshes / pond edges	4	
<i>Helophorus flavipes</i>	Yellow-footed Scavenger Beetle	W	C/L	L	L	Wetland	Marshes / pond edges	1	
<i>Helophorus grandis</i>	Large-toothed Greater Scavenger Beetle	W	C	C	C	Wetland	Marshes / pond edges	3	
<i>Helophorus minutus</i>	Common Golden Scavenger Beetle	W	C	C	C	Wetland	Marshes / pond edges	1	
<i>Helophorus obscurus</i>	Pale Brown Scavenger Beetle	W	C	C/L	C/L	Wetland	Muddy habitats pH 7 and above	3	
<i>Hydrobius fuscipes agg</i>	Common Black-domed Scavenger Beetle	W	C	C	C	Wetland	Marshes / pond edges	2	
<i>Laccobius bipunctatus</i>	Common Grey-domed Scavenger Beetle	W	C	C	C	Wetland	Marshes / pond edges	5	
<i>Megasternum concinnum</i>	Notch-legged Red Scavenger Beetle	W+	C	L	C	Wetland	Rotting veg in tussocks, hay, marshes	5	
<i>Cyphon hilaris</i>	Mid-streaked Marsh Beetle	W	C/L	L	C	Wetland	Sphagnum/ Marshes / pond edges	1	
<i>Cyphon padi</i>	Least Dark-headed Marsh Beetle	W	C	VL	C/L	Wetland	Marshes / pond edges	1	
<i>Cyphon variabilis</i>	Large Yellow Marsh Beetle	W	C/L	L	C	Wetland	Marshes / pond edges	4	
<i>Scirtes hemisphaericus</i>	Oval Jumping Black Marsh Beetle	W	C/L	L	C/L	Wetland	Marshes / pond edges	3	
<i>Scirtidae larvae</i>		W				Wetland	Marshes / pond edges		
<i>Dryops ernesti</i>	Hairy Dryops Beetle	W	C/L	VL	L	Wetland	Marshes / pond edges	1	
20 Leaf & Flea Beetle species:									
<i>Altica lythri</i>	Blue Willowherb Flea Beetle	W/T	C	C	C	Wetland	Willowherbs, wetlands, damp soils	2	
<i>Cassida rubiginosa</i>	Green Thistle Tortoise Beetle	T	C	C/I	C	Roughs	Roughs and tall herb, Creeping Thistle	1	
<i>Chaetocnema hortensis</i>	Greenish Yellow-antennaed Erratic Flea Beetle	T	C/L	VL	C/L	Roughs	Grasses, wild & cultivated	3	
<i>Donacia vulgaris</i>	Banded Donacia Beetle	W	C/L	L	L	Wetland	Typha, Sparganium, Glyceria, Carex	1	
<i>Gastrophysa viridula</i>	Green Dock Beetle	T	C	C	C	Roughs	Docks	1	
<i>Hippuriphila modeeri</i>	Brassy Pale-tipped Flea Beetle	W	C/L	L	L	Wetland	Horsetail	1	
<i>Longitarsus gracilis & v poweri</i>	Med pale-headed dark-sutured Longitarsus	T	C/L	NC	NC	Flower meadows	Asteracea esp Ragwort	1	
<i>Longitarsus atricillus</i>	Large dark-headed-dark-sutured Longitarsus	T	C/L	NC(1918)	VL	Flower meadows	esp Pea family	3	
<i>Longitarsus flav/jac (females only)</i>	Large Pale Longitarsus	T	C/L	NC/VL	NC/VL	Flower meadows	Both on Ragwort	1	
<i>Longitarsus luridus</i>	Common Dark Flea Beetle	T	C	VL	L	Roughs	Many plants, leaves, roots. Grass tussocks	18	
<i>Longitarsus melanocephalus</i>	Narrowly-dark-sutured pale Longitarsus	T	C/L	VL	L	Flower meadows	Plantain	1	
<i>Longitarsus pratensis</i>	Small dark headed pale-elytrad Longitarsus	T	C/L	NC	NC	Flower meadows	Plantain	7	
<i>Neocrepidodera ferruginea</i>	Small Orange Wheat Flea Beetle	T	C/L	VL	C/L	Roughs	Wild & cultivated grasses	1	
<i>Neocrepidodera transversa</i>	Large Orange Wheat Flea Beetle	T	C	L	C/L	Roughs	Various plants in many habitats	3	
<i>Phaedon armoraciae</i>	Brooklime Blue Leaf Beetle	W	C/L	C/L	C	Wetland	Water plants	2	

<i>Phaedon tumidulus</i>	Celery Smooth Blue Leaf Beetle	W+	C	L	C/L	Wetland	On umbellifers	1
<i>Phyllobrotica quadrimaculata</i>	Spotted Yellow Skullcap Leaf Beetle	W	C/L	L	VL	Wetland	In damp open habitats on Skullcap	1
<i>Prasocuris phellandrii</i>	Yellow-striped Blue Leaf Beetle	W	C/L	VL	C	Wetland	Range of wetland plants	1
<i>Psylliodes chrysocephala</i>	Cabbage-stem Flea Beetle	T	C/L	VL	L	Flower meadows	Brassicaceae	2
<i>Sphaeroderma testaceum</i>	Artichoke Beetle	T	C/L	VL	L	Roughs	Thistles and Knapweed. Roughs	1
7 Ladybird species:								
<i>Anisosticta 19-punctata</i>	Water Ladybird	W	C/L	C	C	Wetland	Eats wetland aphids; overwinters tall veg	4
<i>Coccidula rufa</i>	Red Marsh Ladybird	W	C	C	C	Wetland	Aphids, tall wetland grasses/reeds	6
<i>Coccinella 7-punctata</i>	Common 7 Spot Red Ladybird	T	C	C	C	Any	Anywhere with Aphids. Low herbage.	2
<i>Harmonia axyridis</i>	Harlequin Ladybird (red or black)	T	A	C	C	Any	Aphids. Trees, scrub, grass, marsh.	1
<i>Nephus redtenbacheri</i>	Red-blotched Nephus	T	C	VL	L	Roughs	Moss. Grassland.	2
<i>Propylea 14-punctata</i>	14 Spot Yellow Ladybird	T	C	C	C	Wood edge	Tall vegetation, trees, overwinters	1
<i>Rhyzobius litura</i>	U-marked Ladybird	W+	C/L	L	C	Wetland	Grasses, thistle, nettle, rush, reed	4
16 Ground Beetle species:								
<i>Acupalpus dubius</i>	Red-brown Ground Beetle	W	C/L	VL	C/L	Wetland	Litter, moss, tussocks near water	1
<i>Acupalpus parvulus</i>	Dark-blotched Ground Beetle	W	C/L	L	L	Wetland	Damp habitats near vegetation	2
<i>Agonum thoreyi</i>	Furrowed-tarsi Marsh Ground Beetle	W	C	L	L	Wetland	Marshes, fens, reedbeds	3
<i>Anchomenus dorsalis</i>	Green-fronted Ground Beetle	T	C	C/L	C/L	Roughs	Dry soils on arable, gardens, wastes	2
<i>Bembidion guttula</i>	2-spotted Ground Beetle	W	C	C/L	C	Wetland	Almost all habitats, esp near water	1
<i>Calathus melanocephalus</i>	Red-pronotumed Ground Beetle	T	C	VL	C/L	Roughs	Grass, heath, gardens, arable	2
<i>Carabus violaceus</i>	The Violet Ground Beetle	T	C	C	C	Wood edge	Woods, gardens, moors, undisturbed sites	3
<i>Leistus fulvibarbis</i>	Bluish Plate-jaw GB	W	C	C/L	C/L	Wetland	Woods with damp litter	1
<i>Nebria brevicollis</i>	Common Heart-shield GB	T	C	C	C	Any	Woods, gardens, farm fields	5
<i>Paradromius linearis</i>	Common Bladerunner GB	T	C	L	C	Roughs	Grass tussocks, also reeds	2
<i>Pterostichus diligens</i>	Smooth-chested Blackclock GB	W	C	C	C	Wetland	Wetlands, damp grass, moor, marsh	3
<i>Pterostichus madidus</i>	Common Blackclock GB	T	C	C	C	Wood edge	Woods, gardens, dry grassland	1
<i>Pterostichus melanarius</i>	Rain-beetle GB	T	C	C	C	Roughs	Gardens, grassland, arable	1
<i>Pterostichus niger</i>	Great Blackclock GB	W+	C	C	C	Wetland	Woods, damp grass, moors	5
<i>Pterostichus nigrata</i>	Mitten Blackclock GB	W	C	C	C	Wetland	Damp lowlands, near water	2
<i>Pterostichus vernalis</i>	Spring Blackclock GB	T	C	L	L	Roughs	Damp or shaded lowlands, esp grassland	1
31 Rove Beetle species:								
<i>Stenus bifoveolatus</i>	Camphor Beetle	W	C/L	VL	C	Wetland	Range of wetlands, low & tall veg	1
<i>Stenus bimaculatus</i>	Camphor Beetle	W	C/L	L	L	Wetland	Wetlands esp floodplains with trees	2
<i>Stenus brunnipes</i>	Camphor Beetle	T	C/L	L	C/L	Roughs	Grassland, dunes, heaths, dry peat	1
<i>Stenus cicindeloides</i>	Camphor Beetle	W	C	L	C	Wetland	Wet grassland esp Juncus and others	3
<i>Stenus fulvicornis</i>	Camphor Beetle	W	C/L	L	L	Wetland	Rush pasture etc	6
<i>Stenus junco</i>	Camphor Beetle	W	C	L	C/L	Wetland	Wetlands of many kinds	3
<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	2	
<i>Stenus ossium</i>	Camphor Beetle	W	C/L	VL	L	Wetland	Tussocks in marshes, dryish grassland, dunes	1	
<i>Stenus pallipes</i>	Tapered Yellow- legged Camphor Beetle	W	L	NC	NC	Wetland	Litter of marsh, fen, swamp	2	
<i>Stenus picipennis</i>	Camphor Beetle	W	C/L	VL	VL	Wetland	Juncus, Watercress, stream, marsh, dune	1	
<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	6	
<i>Acidota crenata</i>	Red Rove Beetle	W+	C/L	VL	VL	Wetland	Litter, moss, forests, bogs	1	
<i>Acrotichis sp</i>	Feather-wing Rove Beetle (1mm)	T/W					Taken in ground vegetation	6	
<i>Aleocharinae</i> (several species)	Brown Rove Beetles (various)	W				Wetland		9	
<i>Aleochara lanuginosa</i>	Red-winged Aleochara Beetle	T	C/L	VL	C	Roughs	Dung, carcasses, grass tussocks	1	
<i>Aleochara sparsa</i>	Brown Aleochara Beetle	T	L	VL	VL	Pasture	Carrion, dung, nests, burrows, litter	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	2	
<i>Megalinus glabratus</i>	Red-winged Black Rove Beetle	T	C/L	NC	VL	Roughs	Grassland, wastes, sandy ground	1	
<i>Ocypus aeneocephalus</i>	Hairy Coppery Coach Horse	T	C/L	VL	VL	Roughs	Rough grassland	3	
<i>Ocypus olens</i>	Devil's Coach Horse	T	C/L	C/L	C	Wood edge	Variety of damp to dry soil habitats	1	
<i>Philonthus carbonarius</i>	Green-winged Black Rove Beetle	H+	C/L	L	C/L	Heaths	Open woods, heath- grassland	1	
<i>Quedius levicollis</i>	Three-eye dot Rove Beetle	T	C/L	VL	L	Roughs	Open habitats on damp to drier soil	3	
<i>Quedius maurorufus</i>	Larger Brown Rove Beetle	T	C/L	L	C/L	Wetland	Fens, flushes, pond margins	1	
<i>Quedius schatzmayri</i>	Part-punctured Variegated Rove Beetle	T	L	NC	L	Roughs	Damp soils, leaf litter Wetland margins, bogs, swamps	2	
<i>Reichenbachia juncorum</i>	Squat Rove Beetle	W	C/L	VL	L	Wetland	Leaf litter, thick grass, dung, logs	1	
<i>Tachinus rufipes</i>	Pale-edged Black Rove Beetle	T	C/L	VL	C	Roughs		1	
<i>Tachyporus chrysmelinus</i>	6-hair-edged Yellow & Black Rove Beetle	T	C		C	Roughs	Leaf litter, rotting grass, moss, soil surface	1	
<i>Tachyporus pallidus</i>	Black-headed Short-haired Yellow & Black Rove Beetle	W	C/L	VL	L	Wetland	Leaf litter, debris in wetlands	1	
12 Weevil species:									
<i>Apion frumentarium</i>	Orange Dock Weevil	T	C/L	C	C	Roughs	Docks	2	
<i>Apion rubens</i>	Sheep's Sorrel Red Weevil	T	L	NC	VL	Roughs	On Sheep's Sorrel in sandy places	1	
<i>Coelositona cambricus</i>	Welsh Sitona Weevil	W	C/L	VL	VL	Wetland	Greater Bird's-foot Trefoil	1	
<i>Exapion ulicis</i>	Gorse Weevil	T	C/L	L	C/L	Heaths	Gorse	1	
<i>Holotrichapion pisi</i>	Bulging-eyed hairy-nosed Weevil	T	C/L	NC	VL	Flower meadows	On Medick	1	
<i>Notaris acridulus</i>	Pale-rear-tipped Wetland weevil	T	C/L	VL	C/L	Wetland	Reed Sweet-grass	1	
<i>Protapion assimile</i>	Rough Dark-legged Weevil	T	C/L	VL	VL	Flower meadows	On Clover	3	
<i>Protapion fulvipes</i>	Yellow-legged Black-nosed Weevil	T	C	L	L	Flower meadows	White Clover	1	
<i>Sitona hispidulus</i>	Flat-eyed Hairy Clover-root Weevil	T	C/L	VL	VL	Flower meadows	Various herbs, often Clover	1	
<i>Sitona lineatus</i>	Big-eyed Striped Sitona Weevil	T	C	C/L	C/L	Flower meadows	Vetches, grasslands	2	

<i>Sitona suturalis</i>	Striped Sitona Weevil	T	C/L	VL	VL	Flower meadows	Meadow Vetchling, vetches	1
<i>Trichosirocalus troglodytes</i>	Square-backed Ribwort Plantain Weevil	T	C/L	L	C/L	Flower meadows	Ribwort Plantain	3
15 Dung specialists:								
<i>Aphodius (Acrossus) rufipes</i>	Red & Black Dung Beetle	T	C/L	L	C/L	Pasture	Dung of herbivores	2
<i>Aphodius (Nimbus) contaminatus</i>	Hairy-pronotumed Dung Beetle	T	C/L	NC	L	Pasture	Dung of herbivores	1
<i>Aphodius (Calamosternus) granarius</i>	a Dung Beetle	T	C/L	NC	VL	Pasture	Dung of herbivores	1
<i>Aphodius pedellus</i>	Orange-winged dark-fronted Dung Beetle	T	L	NC	VL	Pasture	Dung of herbivores	1
<i>Aphodius (Melinopterus) prodromus</i>	Dark-faced Brown Dung Beetle	T	C/L	VL	C	Pasture	Dung of herbivores	1
<i>Aphodius (Melinopterus) sphacelatus</i>	Yellow-edged Dung Beetle	T	C/L	NC	C/L	Pasture	Dung of herbivores	1
<i>Geotrupes spiniger</i>	Dumble Dor Beetle	T	C/L	VL	VL	Pasture	Dung of herbivores	2
<i>Cercyon impressus</i> (G Foster)	Dinted Cercyon Beetle	W+	C/L	L	C	Pasture	Cow/sheep dung. Rotting veg e.g. in marshes	1
<i>Cercyon lateralis</i> (G Foster)	Bordered Cercyon Beetle	T	C/L	VL	L	Pasture	Dung, compost, carrion.	1
<i>Cercyon melanocephalus</i> (G Foster)	Black-headed Cercyon Beetle	T	C/L	VL	C	Pasture	Dung, esp sheep.	1
<i>Cercyon pygmaeus</i>	Pigmy Cercyon Beetle	T	C/L	VL	L	Pasture	Dung, rotting veg, compost	1
<i>Cryptopleurum minutum</i> (G Foster)	Hairy Dome Scavenger Beetle	T	C/L	L	C/L	Pasture	Dung, rotting vegetation	1
<i>Sphaeridium lunatum</i>	Black-Red-Yellow Dung Beetle	T	C/L	VL	L	Pasture	Horse & cow dung, carcasses, compost	1
<i>Oxytelus laqueatus</i>	Pale-winged Grooved Rove Beetle	T	C/L	VL	L	Pasture	Dung of herbivores	1
<i>Platystethus arenarius</i>	Dung Rove Beetle	T	C	VL	C/L	Pasture	Dung of herbivores	1
10 Other Beetle species:								
<i>Anthocomus rufus</i>	Red and Black Beetle	W	C/L	VL	L	Wetland	Wetter areas around reedbeds & margins.	2
<i>Atomaria mesomela</i>	Centrally-dark Silken Fungus Beetle	T	C/L	VL	VL	Roughs	Damp meadows, rotting hay	2
<i>Brachypterus urticae</i>	Pale-legged Short-winged Nettle Pollen Beetle	T	C	L	C	Wood edge	Nettle flowers & buds	1
<i>Cartodere bifasciata</i>	Spotted Cartodere Latrid	T	A	VL	L	Wood edge	Fungi. Compost, leaf litter, logs.	2
<i>Cortinicara gibbosa</i>	Narrow-pronotum Latrid (no 1st sternite lines)	T	C	L	C	Wood edge	Flowers	1
<i>Epuraea biguttata agg</i>	Orange Sap-feeding Beetle	T	C/L	VL	VL	Wood edge	Sap of trees, maybe fruit	1
<i>Hoplia philanthus</i>	Welsh Chafer	T	C/L	C/L	C	Flower meadows	Meadows, hedges, wood edge	2
<i>Micrambe ulicis (vini)</i>	Gorse Beetle	T	C/L	NC	L	Heaths	Gorse	1
<i>Nicrophorus vespilloides</i>	Black-antennaed Yellow-banded Burying Beetle	T	C	C	C	Roughs	Carrion	1
<i>Telmatophilus caricis</i>	Burreed Pollen Beetle	W	C/L	VL	L	Wetland	On Burreed	1
DIPTERA:								
TRUE FLIES:								
16 Hoverfly species:								
<i>Episyrphus balteatus</i>	Marmalade Hoverfly	T	C	C	C	Flower meadows	All habitats, larvae eat aphids	1
<i>Eristalis horticola</i>	Thin-dark-legged Eristalis Hoverfly	A+	C/L	C/L	C/L	Wetland	Ditches, bramble, woods, hedges	1
<i>Eristalis nemorum (Interruptus)</i> (C Sellen)	Narrow-black-striped Eristalis Hoverfly	A+	C	C	C	Wetland	Flower meadow, woodland rides, hedge	1

<i>Eristalis tenax</i>	Common Dronefly	A+	C	C	C	Wetland	Enriched water/pollen/ivy/buildings in winter	3
<i>Eupeodes corollae</i>	Yellow-spectacled Hoverfly	T	C/L	C	C	Flower meadows	Many habitats. Often migrant	1
<i>Helophilus pendulus</i>	Common Striped-thorax Hoverfly (third black tibia)	A+	C	C	C	Wetland	Wetlands, ranging far for pollen	4
<i>Hoverfly</i>	Rat-tailed Maggot	A+				Wetland		
<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.	1
<i>Neoscia tenor</i>	Black-tipped, clear-winged Fat-thighed Hoverfly	W	C/L	C/L	C/L	Wetland	Marshes, fens, heaths, reeds, reedmace	1
<i>Platycheirus albimanus</i>	Common Silver-spotted Hoverfly	T	C	C/L	C	Wood edge	Wood edge, hedge, gardens. Aphids	2
<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	2
<i>Platycheirus granditarsus</i>	Orange-saddled Hoverfly	W	C/L	C/L	C	Wetland	Marshy meadows, lush waterside veg	3
<i>Sphaerophoria interrupta</i>	Thumb Sphaerophoria Hoverfly	T	C/L	L	L	Wood edge	Damp grass, aphids on Red Campion etc	1
<i>Sphaerophoria scripta</i>	Bi-width-process Sphaerophoria Hoverfly	T	C/L	C/L	C	Flower meadows	Mobile species. Larvae eat ground level aphids	1
<i>Syrphus ribesii</i>	Hoverfly (yellow femur)	T	C	C	C	Wood edge	Garden, hedge, wood, roughs, wastes	1
2 Soldierfly & allies species:								
<i>Haematopota pluvialis</i>	Notch-horned Cleg	T	C	C	C	Roughs	Damp, less improved countryside with mammals	1
<i>Stratiomyidae</i>	Aquatic/Marsh larva	A+				Wetland	Wetlands	3
31 Cranefly species:								
<i>Dicranomyia autumnalis</i>	Orange Autumn Cranefly	W	C/L	L	L	Wetland	A variety of wet soils/wetlands	1
<i>Dicranomyia fusca</i>	Hairy Short-palped Cranefly	W	C	L	L	Wood edge	Wet/damp woodland	1
<i>Dicranomyia modesta</i>	a Clear-winged Brown Cranefly	W	C	L	C	Wetland	Wet woods, marsh, ponds, damp grass	2
<i>Eloeophila maculata</i>	Spotted-winged Cranefly	W	C	L	L	Wetland	Shaded streams & ditches	1
<i>Erioconopa diuturna</i>	Grey October Cranefly	W	C/L	L	L	Wetland	Wet meadows, floodplains, moors, bogs	3
<i>Erioconopa trivialis</i>	Grey Scythe Cranefly	W	C	C/L	C	Wetland	Wetlands, wet woods, Muddy places	2
<i>Erioptera fuscipennis</i>	Small Grey Cranefly	W	C/L	L	C/L	Wetland	upland/lowland	1
<i>Erioptera fusculentata</i>	Yellow-shoulder Grey/Brown Cranefly	W	C/L	VL	VL	Wetland	Muddy places upland/lowland	1
<i>Erioptera lutea lutea</i>	Black-haltered Orange-sided Cranefly	W	C	VL	C/L	Wetland	Variety of muddy habitats	2
<i>Helius longirostris</i>	Black-striped Long-snout Cranefly	W	C/L	L	L	Wetland	Vegetated pond margins, peat bogs	1
<i>Limonia nubeculosa</i>	Stripe-legged banded Short-palped Cranefly	W	C	C/L	C	Wetland	Damp, mossy, shady places	1
<i>Molophilus obscurus</i>	Yellow-scutellumed Cranefly	W	C	L	C/L	Wetland	Wet pastures etc	3
<i>Molophilus ochraceus</i>	Small Yellow Cranefly	W	C	L	C/L	Wetland	Wet, shaded habitats, wet woods, bog	1

<i>Ormosia hederæ</i>	U-appendaged Cranefly	W	C	C/L	C/L	Wetland	Damp woods, hedges, wood edge	1	
<i>Ormosia sp</i>	5-lobed aquatic larvae	A+				Wetland		6	
<i>Paradelphomyia senilis</i>	Brown Seepage Cranefly	W	C	L	L	Wetland	Calcareous & acid seepages	3	
<i>Pedicia rivosa</i>	Large Stripe-winged Cranefly	A+	C/L	L	L	Wetland	Bog, moors, wet woods	1	
<i>Phylidorea ferruginea</i>	Black-tipped Orange Cranefly	W	C	C/L	C/L	Wetland	Ponds & rushy ditches	7	
<i>Phylidorea fulvonervosa</i>	Black-lined Orange Cranefly	W	C	L	C/L	Wetland	Wet woods, mire, moors	1	
<i>Pilaria discicollis</i>	Grey Orange Black Cranefly	W	C	C/L	C/L	Wetland	Lush pond, seepage, stream, flush	1	
<i>Pseudolimnophila lucorum</i>	Grey & Brown Cranefly	W	C	VL	L	Wetland	Wet wood, bog, carr, seepage <7ph	1	
<i>Ptychoptera albimana</i>	Pale-footed Cranefly	W	C	C/L	C	Wetland	Peat bog, carr, fen, swamp, rush pasture	2	
<i>Ptychoptera scutellaris</i>	Hairy-tipped-wing Cranefly	W	C/L	VL	VL	Wetland	Seepage/ditch	1	
<i>Tipula confusa</i>	V-marked Mottle-winged Cranefly	W+	C	C/L	C/L	Wetland	Variety of habitats with moss	1	
<i>Tipula luteipennis</i>	Yellow-winged Orange Cranefly	W	C/L	L	L	Wetland	Wet ground with rushes	4	
<i>Tipula oleracea</i>	Long-winged Long-palped Cranefly	W+	C	C	C	Roughs	Damp grassland	2	
<i>Tipula pagana</i>	Short-winged Cranefly	T	C	C/L	C/L	Roughs	Mossy habitats of all types	1	
<i>Tipula paludosa</i>	Common Long-palped Cranefly	W+	C	C	C	Roughs	Damp grassland	1	
<i>Tipula variicornis variicornis</i>	Black-ringed Dagger Cranefly	A+	C/L	C/L	C/L	Wetland	Wet wood, wet heath, mosslands	2	
<i>Tipula vittata</i>	Streak-winged Spring Cranefly	A+	C	L	C/L	Wetland	Wet wood, heath	2	
<i>Tricyphona immaculata</i>	Grey Orange-legged Cranefly Larvae	W	C	C/L	C	Wetland	Wetlands of many types	2	
<i>Limoniidae</i>	(undeterminable) Larva/Pupa	A+							
<i>Tipulidae</i>	(undeterminable)	A+							
28 other Nematocera species:									
<i>Dilophus febrilis</i>	Smoky-winged Fever-fly	T	C/L	C/L	C/L	Roughs	Low vegetation	1	
<i>Chaoborus sp & c</i>	Phantom Midge	A+				Wetland	Ponds/ditches	1	
<i>Aedes sp</i>	Mosquito	A+				Wetland	Part shaded swamps/pools. Mammal blood	1	
<i>Anopheles</i>		A+				Wetland	Wetlands and water butts	3	
<i>Coquillettidia richiardii</i>	Piercing-siphoned Mosquito	A+	L	NC (1939)	VL	Wetland	Vegetated ponds etc	1	
<i>Culex pipiens</i>	Mosquito	A+	C/L	C/L	C	Wetland	Wetlands and water butts	1	
<i>Culiseta cf annulata</i>	Mosquito	A+	C/L	L	C	Wetland	Wetlands and water butts	2	
<i>Culiseta morsitans</i>	Long-siphoned Mosquito	A+	C/L	NC (1939)	L	Wetland	Pools, ponds, ditches	1	
<i>Culiseta sp</i>	Mosquito	A+				Wetland	Wetlands and water butts		
<i>Ceratopogonidae (Atrichopogon larvae)</i>	Biting Midges	A+				Wetland	Wetlands	1	
<i>Ceratopogonidae (Bezzia larvae)</i>	Biting Midges	A+				Wetland	Wetlands	1	
<i>Chironomidae (large adults)</i>	Non-biting Midges	A+				Wetland	Ponds/ditches		
<i>Chironomidae (tiny adults)</i>	Non-biting Midges	A+				Wetland	Ponds/ditches		
<i>Chironomidae (red larvae)</i>	Non-biting Midges (bloodworm)	A+				Wetland	Wetlands	7	
<i>Corynoneura (larvae)</i>	Non-biting Midge	A+				Wetland	Wetlands	1	
<i>Orthocladinae (larvae)</i>	Non-biting Midges	A+				Wetland	Wetlands	7	
<i>Podominae (larvae)</i>	Non-biting Midge	A+				Wetland	Wetlands	4	
<i>Tanypodinae (larvae)</i>	Non-biting Midge (Narrow Head)	A+				Wetland	Wetlands	2	

<i>Tanypodinae</i> (larvae)	Non-biting Midge (Wide Head)	A+				Wetland	Wetlands	2
<i>Tanytarsini</i> (larvae)	Non-biting Midge	A+				Wetland	Ponds and streams	2
<i>Sciaridae</i>	Black Fungus Gnats	W+				Wetland	Mainly wet habitats. Multi-strategy	8
<i>Sylvicola cinctus</i>	Common Window Gnat	T	C/L	C/L	C	Roughs	Larvae found in decaying matter	2
<i>Sylvicola fenestralis</i>	Less Common Window Gnat	T	C/L	VL	C/L	Roughs	Larvae found in decaying matter	1
<i>Sylvicola punctatus</i>	Spotted Window Gnat	T	C/L	VL	C	Pasture	Associated with cattle dung	6
<i>Scatopsidae</i>	Dung Midges	T					Rotting organics; marshes, open habitats	1
<i>Cecidomyiidae</i>	Gall Midges (3 main groups exist)	T					Rotting organics; galls/mines; predatory	4
<i>Dixa dilatata</i>	Meniscus Midge	A+	C/L	VL	VL	Wetland	Springs, weedy streams, peat pools	1
<i>Dixa maculata</i>	Meniscus Midge	A+	NS	VL	VL	Wetland	Stony woodland streams	1
<i>Dixella autumnalis</i>	Meniscus Midge	A+	C/L	NC (1964)	L	Wetland	Swamps at the edges of wetlands	7
<i>Simuliidae</i>	Blackflies	A+				Wetland	Running water; nectar or blood	3
<i>Psychodidae</i>	Moth Flies	A+				Wetland	Larvae in water; damp woods, marshes	15
23 other Brachycera Fly taxa:								
<i>Elgiva solicita</i>	Brown S-veined Snail-killing Fly	W	C/L	C/L	C/L	Wetland	Ponds and ditches with snails	2
<i>Limnia paludicola</i>	Marsh Stripe-backed Snail-killing Fly	W	C/L	VL	L	Wetland	Wetlands, bogs lush wood rides. Succinea	1
<i>Pherbellia griseola</i>	Little Variable Snail-killing Fly	W	NN	VL	L	Wetland	Pool/marsh/swamp with fluctuating water level	1
<i>Pherbellia schoenherri</i>	Spot-winged Little Snail-killing Fly	W	L	L	VL	Wetland	Tall wetland vegetation	1
<i>Pherbina coryleti</i>	Net-winged Snail-killing Fly	W	C/L	C/L	C/L	Wetland	Wide range of swampy wetlands	2
<i>Renocera pallida</i>	Dark-horned Mussel-killing Fly	W	C/L	L	C/L	Wetland	Wet wood, stream, lake with Pea Mussels	2
<i>Tetanocera arrogans</i>	Two-spined Buff Snail-killing Fly	W	C/L	VL	L	Wetland	Wetlands of all types	1
<i>Tetanocera ferruginea</i>	Common Buff Snail-killing Fly	W	C/L	L	C/L	Wetland	Wetlands avoiding acid sites	2
<i>Sciomyzidae</i>	Snail-killing Fly larva							
<i>Bicellaria nigra</i>	Humped Dance Fly	W	L	NC	NC	Wetland	Wetland Woodland	1
<i>Dolichocephala guttata/oblongoguttata</i>	Dance Fly	W	C/L	L/VL	L/L	Wetland	Wetland Woodland	1
<i>Hybos femoratus</i>	Pale Hair-legged Dance Fly	W	C/L	VL	C/L	Wetland	Wetland Woodland	1
<i>Platypalpus calceatus</i>	Yellowish Dance Fly	W	C/L	VL	L	Wetland	Woodland near water	1
<i>Platypalpus pallidiventris</i>	Striped-socks Dance Fly		C/L	VL?	C	Wood edge	Tall herb and scrub mostly	1
<i>Rhamphomyia variabilis</i>	Grey Yellow-legged Dance Fly	W+	L	NC	VL	Wetland	Wooded wetland/reedbed	1
<i>Tachypeza nubila</i>	Dance Fly	W	C/L	VL	C/L	Wetland	Wet Woodland	1
<i>Lonchoptera lutea</i>	Yellow Spear-winged Fly	T	C	C	C	Roughs	Leaf litter; nectar; open habitats	7
<i>Lonchoptera nitidifrons</i>	Glossy-faced Spear-wing Fly	W	VL	NC (1939)	NC	Wetland	Wetlands, sedges or other emergents	1
<i>Phoridae</i>	Scuttle Flies	T					Multiple strategies	12
<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	4
<i>Heteromyza rotundicornis/commixta</i>	Grey and Red Heteromyzid Fly	W+	C/L/L	VL/VL	L/L	Wetland	Mostly woodland with water	1
<i>Suillia bicolor</i> (Ian Andrews)	Short-spined Yellow Suillia Fly	W+	C	VL	L	Wetland	Shady woodland with stream	1
<i>Suillia notata</i> (Ian Andrews)	Feint-spotted Yellow Suillia Fly	W+	C/L	VL	L	Wetland	Mostly woodland with water, often acid	1

35 Acalypterate Fly taxa:

<i>Lonchaea sp</i>	a Blue-black Lonchaeid Fly	T				Wood edge	Rotting broad-leaved trees	1
<i>Calliopum elisae</i>	Remarkable Black Lauxanid	W	L	VL	VL	Wetland	Fens, pond edges, marshy streamsid	1
<i>Tricholauxania praeusta</i>	Pale-marked Hairy-veined Lauxanid Fly	T	C	L	C	Wood edge	Hedges, well-vegetated areas, umbels	2
<i>Geomyza balachowskyi</i>	Pliers Geomyza Fly	T	C/L	VL	L	Roughs	Mainly grasslands	3
<i>Geomyza tripunctata</i>	Round-tipped Geomyza Fly	T	C	C/L	C	Roughs	Grasslands, woods, cereal fields	4
<i>Anomoia purmunda</i>	Spectacled Picture-winged Fly	T	C/L	C/L	C	Wood edge	Eggs and larvae on Hawthorn fruits	1
<i>Dioxyna bidentis</i>	Long-lipped Picture-winged Fly	W	NN	NC	VL	Wetland	On Bidens in marshes, watersides	1
<i>Opomyza florum</i>	Four-spot Yellow Cereal Fly	T	C/L	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	3
<i>Opomyza petrei</i>	Marked-wing Striped Red Cereal Fly	T	C	C/L	C	Roughs	Unmanaged grassland, roughs, wastes	2
<i>Palloptera trimacula</i>	Three-spotted Trembling-wing Fly	T	L	VL	VL	Wood edge	Grassland, scrub with tall herb	1
<i>Tephritis cometa</i>	Star & Stripe Gall Fly	T	L	C/L	L	Roughs	Thistles	2
<i>Tephritis neesii</i>	Oxeye Daisy Gall Fly	T	C/L	C	L	Flower meadows	Oxeye Daisy. Roughs	1
<i>Sepsis cynipsea</i>	Ensign Fly with two humps on tibia	T	C	C/L	C	Pasture	Tall veg. Larvae in cow dung	1
<i>Sepsis flavimana</i>	Ensign Fly with narrowed tibia	T	C/L	VL	C	Pasture	Tall veg. Larvae in cow dung	1
<i>Sepsis fulgens</i>	Ensign Fly with two-spined prominence	T	C	L	C	Pasture	Tall herb. Larvae in dung	2
<i>Sepsis punctum</i>	Ensign Fly with thumb, mound & long spines	T	C/L	L	C	Pasture	Tall herb. Larvae in dung	2
<i>Themira lucida</i>	Black 2-fingered Ensign Fly	W	C/L	NC	L	Wetland	Waterfowl droppings, tall herb etc	3
<i>Themira superba</i>	Long-tailed Black Ensign Fly	W	C/L	VL	VL	Wetland	Waterfowl droppings, wetlands	1
<i>Drosophila busckii</i>	Y-Banded Fruit Fly	T	VL	NC	NC	Wood edge	Dung, rotting veg, fruit, fungi, Oak sap	1
<i>Drosophila funebris</i>	Paired-banded Fruit Fly	T	L	NC	L	Wood edge	Fungi, sythanthropic	1
<i>Drosophila hydei</i>	Dark-sided Fruit Fly	T	L	NC	VL	Wood edge	Decaying fungi, rotting plants, fruit, Oak sap	1
<i>Drosophila immigrans</i>	Spiny-femured Banded Fruit Fly	T	L	NC	VL	Wood edge	Oak sap, rotting fruit, fungus	3
<i>Drosophila obscura</i>	Many-toothed Fruit Fly	T	L	VL	VL	Wood edge	Sap runs of Beech/Oak, fungi,	1
<i>Drosophila cf melanogaster</i>	Pale-fronted Fruit Fly	T	L	NC	VL	Wood edge	Fungus, Oak, Fruit, sythanthropic	1
<i>Drosophila phalerata</i>	Black-tipped banded Fruit Fly	T	C/L	VL	L	Wood edge	Fungi and woodlands	2
<i>Drosophila picta</i>	Striped & Spotted Fruit Fly	W	L	NC	VL	Wetland	Reedmace Moth frass, fungi	1
<i>Drosophila subobscura</i>	Clouded-winged Fruit Fly	W+	C/L	VL	L	Wetland	Fungi, wetlands, woodland	3
<i>Drosophila suzukii</i>	Spotted-winged Fruit Fly	A	C/L	NC	VL	Wood edge	Bramble, fruit, fungi	4
<i>Parydra quadripunctata</i>	4-spotted Shore Fly	W	C/L	NC(1953)	VL	Wetland	Freshwater wetlands	1
<i>Scatella stagnalis</i>	Larger Spot-winged Shore Fly	W	C/L	NC	C	Wetland	Wetland	1
<i>Scatella tenuicosta (lacustris)</i>	Smaller Spot-winged Shore Fly	W	C/L	NC	C/L	Wetland	Wetland	1
<i>Scatella sp</i>	Shore Fly	W				Wetland	Wetland	1
<i>Chloropidae</i>	Triangular-head mark minute	T					Multiple strategies	2

	yellow and brown flies								
<i>Sphaeroceridae</i>	Lesser Dung Fly	T					Roughs	Larvae in rotting organics	8
8 Calypterate Fly taxa:									
<i>Mycophaga testacea</i> (T Irwin)	an Anthomyiid Fly	T	C/L	VL	VL		Wood edge	Fungi (e.g. on Beech)	1
<i>Scathophaga furcata</i>	Dark-front-femur Dung Fly	T	C/L	C/L	C		Pasture Flower meadows	Sheep Dung, Dog, Human	2
<i>Scathophaga stercoraria</i>	Yellow Dung Fly	T	C	C/L	C		meadows	Cow pats, pollen, predators	5
<i>Scathophaga suilla</i>	Pale Yellow Dung Fly	T	C/L	L	L		meadows	Farmland. Larvae unknown.	4
<i>Haematobosca stimulans</i>	Large Meadow Bite Fly	T	C/L	L	L		Pasture	Young in Cow dung; adult bites cattle	1
<i>Mesembrina meridiana</i>	Noon Fly Muscid	T	C	C/L	C		Pasture	Dung breeder. Woods and tall vegetation	1
<i>Lucilia sericata</i>	Sheep-strike Greenbottle	T	C	C	C		Roughs	Carriion, dung, refuse, rotting veg, wounds	2
<i>Calliphoridae</i>	Blue or Green Bottle Blowflies	T					Roughs	Carriion; Flowers, dung, rotting organics	2
THYSANOPTERA: THUNDERFLIES: 3 taxa:									
<i>Limothrips denticornis</i>	Toothed-antenna Thunderfly	T	?	?	?		Flower meadows	Grasses	1
<i>Thrip</i>	Brown (winged) Thrip	T	?	?	?		Flower meadows	Flowers/grasses	5
<i>Thrip</i>	Yellow (winged) Thrip	T	?	?	?		meadows	Flowers/grasses	2
DIPLURA: BRISTLETAILS: 1 species:									
<i>Campodea sp</i>	Two-tailed Bristletail	T					Roughs	Soil layer/ grass thatch	1
COLLEMBOLA: SPRINGTAILS: 19 species:									
<i>Dicyrtomina minuta</i>	Blue-tailed Squat Springtail	T	VCW	VL	L		Roughs	Surface debris, low vegetation	5
<i>Dicyrtomina ornata</i>	Patterned Squat Springtail	T	WCW	VL	L		Roughs	Surface debris, low vegetation	5
<i>Dicyrtomina saundersi</i>	Blue-masted Yellow Squat Springtail	T	VC	VL	L		Roughs	Surface debris, low vegetation	2
<i>Heterosminthurus bilineatus</i>	Least Banded Squat Springtail	T	MC	NC	L		Roughs	Damp surface debris, low vegetation	1
<i>Heterosminthurus insignis</i>	Yellow Least Squat Springtail	T	MC	VL	NC		Roughs	Damp surface debris, low vegetation	1
<i>Sminthurus viridis</i>	Clover Springtail	T	VCW	NC	Vla		Roughs	Grasses and shrubs	7
<i>Isotomurus graminis (prasinus)</i>	Greenish Springtail	W	C?	NC	L		Wetland	Wet habitats	7
<i>Isotomurus palustris</i>	Patterned Springtail	W	VC	L	L		Wetland	Damp surface debris, low vegetation	1
<i>Isotomurus plumosus</i>	Banded Springtail	W	C	VL	L		Wetland	Wet habitat edge	2
<i>Isotoma viridis</i>	Green Springtail	W	CW	C	C		Wetland	Range of habitats inc wetlands	5
<i>Lepidocyrtus curvicollis</i>	Yellow Humped Springtail	T	CW	NC	L		Roughs	Surface debris, low vegetation	7
<i>Lepidocyrtus cyaneus</i>	Brown Humped Springtail	T	VCW	NC	L		Wood edge	Leaf litter, logs	1
<i>Orchesella cincta</i>	Dark-headed Patterned Springtail	T	VC	C	C		Roughs	Surface debris, low vegetation	2
<i>Entomobrya intermedia</i>	W-lined Patterned Springtail	T	CW	C	C		Roughs	Flowers, trees, bushes, gardens	1
<i>Entomobyra multifasciata</i>	Triangles-tipped Springtail	T	VCW	L	L		Roughs	Surface debris, low vegetation	1
<i>Entomobyra nicoleti</i>	4-dot-tipped Springtail	T	VWC	L	NC		Roughs	Surface debris, low vegetation	1
<i>Neanura muscorum</i>	Springtail	T	VCW	VL	L		Wood edge	Often found under bark	2
<i>Pogonognathellus longicornis</i>	Coil-antennaed Yellow Springtail	W+	VCW	C	C		Wetland	Surface debris, low vegetation, marsh, garden	13
<i>Tomoceris minor</i>	Trident Brown Springtail	W+	VCW	C	C		Wetland	Surface debris, low vegetation, marsh, garden	9

Columns C-H:

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



