CONEY GREEN FARM & CROWTREES FARM PRIORITY HABITAT LOWLAND MEADOW & CHEGD GRASSLAND INVERTEBRATE SURVEY 2023 + 2021.

By Dave Bentley Entomology and Ecology Services

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Methods

Survey work commenced on 31/08/2023 after prolonged rain over the summer which had delayed hay harvesting. A canvas bag was used to sweep vegetation and the samples were sorted in the bag and on a tray. Given the grass was still damp and spoiled the results a second visit was made the day before harvest (03/09/2023) in a now dry habitat with more plentiful insects in flight. A vacuum survey and a repeat canvas bag survey were conducted. The species list includes results from 2021 when a litterpick was conducted along the brook and an invertebrate survey was conducted at the same time. A few casual records of Odonata, butterflies, bees and beetles are added in to the results. The table below is a summary of the spreadsheet records. The survey missed the high summer and spring invertebrate activity. The survey represents a fraction of what could be present. The dung beetle fauna was not examined (after the hay is cropped the farmer grazes sheep until the spring). The canal water and fen strip were NOT surveyed.

The site

The Priority Habitat and CHEGD grasslands are bisected by Withins Brook which has a river and fen scrub habitat, and several huge veteran Sycamore trees. It also has a patch of failing Elm trees (which could not be identified) which have their own leaf hopper species.

** Brown Hare have been recorded in the adjacent meadow to the northwest. Otters spraints are known from the bridge at the north apex of the site and Otters are recorded on the canal. Reed Bunting, Lapwing and Skylark have been recorded breeding here during the life of the current project.

Both the large hay meadows have permanent wet areas, seepage lines, inundation areas and waterside habitats and have hedgerows adjacent.

The survey shows the value of the Lowland Meadow Priority Habitat and CHEGD grassland for invertebrates. Indicator plants, Waxcap CHEGD, mammals, birds and invertebrates are all of high value.

Results

400 taxa were recorded:

The six Nationally Scarce species (red on the species list below):

Hypera meles* Furrow-nosed Red Clover Weevil Nationally Notable A

Aphrophora major* Largest Fen Froghopper Nationally Notable B

Hippodamia variegata Adonis Ladybird

Catapion pubescens* Low-foreheaded Apion Weevil Nationally Notable B

Oxystoma cerdo Pinch-nosed Apion Weevil Nationally Notable B

Isotoma riparia* 1-striped Springtail Notable

^{*4} of the above are Greater Manchester first site records,

52 additional taxa are Greater Manchester first records only so far recorded in Elton Reservoir area (amber on the species list), with some of these being Vice-county first records. NB 3 of these are woefully unrecorded Aphids and can be ignored. NB two of the Planthopper bugs indicated have pre 1960 Greater Manchester records.

77 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.

Additionally the habitat requirements of all species is given.

Discussion

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

The grasslands have several wet and damp bits within them and these attract plenty of wetland species. Some records show that the meadow is the terrestrial habitat of fly species breeding in the canal. The canal alongside is filled with the Red-data listed Whorled Milfoil, told from turions. We know it is present and abundant for we found much when taking out Water-soldier plants along this length.

Several of the species are vice county firsts, or North West first records. One is a national first record for the Finnish expert who is preparing a paper on why the Minute Flower Bug *Orius horvathi* had been hiding an undescribed species. There are a mere handful of UK records of *O horvathi* and ours, he says, is the undescribed species so a UK first.

The weevils Stenopeterapion tenue is a VC59 first, with 4 other records in Cheshire.

The spot-winged fly *Geomyza hackmani* is a VC59 first, with two Cheshire records, and still described in the 2020 Dipterist course booklet as rare and southern in marshes. Verified with Martin Drake.

Sminthurinus elegans and S aureus are now added to the NW list having escaped the recording recent Springtail recording effort of Ben Deed.

One of the Orange and White-striped Leafhoppers (we have both) *Mocydiopsis parvicauda* is the only record in the NW region. Verified by national recorder Alan Stewart. There are around 60 GB records, mostly southern but some in North Shropshire and Sheffield. "Local" on British Bugs website. Ours is the most northern record.

The NA Weevil *Hypera meles* and the NB *Catapion pubescens* have each one other modern NW England recorded site at Woolston Eyes SSSI. Both verified by Mark Gurney the national weevil recorded. *Catapion pubescens* is on Old Hall Farm Lowland Meadow Priority Habitat too.

The Australian Ladybird *Rhyzobius lophanthae* excited the national recorder Peter Brown, being the first NW record, and most northern record but to us this is just an alien.

True Bug Tytthus pygmaeus, not more than 70 known GB sites, the fourth in NW England.

Liminia unguicornis, a Snail-killing Fly, the third GM record, and the first for 30 years, known from the wetland at Moss Shaw Farm Radcliffe where the GMEU walked the site and reported to Bury Council

that there was probably insufficient wildlife to stop an opencast coal mine. Within weeks 17 Great Crested Newt ponds were recorded as well as breeding Snipe, Redshank and great invertebrates and local recorders stopped the coal mine development.

The Withins Brook deserves mention as it is a lowland stream with characteristics more associated with generally cleaner Greater Manchester foothills streams. The species present include Stonefly Leuctra fuscsa (Score 10), the River Limpet, Mayfly Baetis vernus (2 GM records), the Riffle Beetle Elmis aenea and a number of caddisfly species including Sericostoma personatum (Score 10) and several 7 scoring species. The score is the BMWP Score and 10 indicates pollution intolerant species.

CONEY GREEN FARM & CROWTREES FARM, RADCLIFFE, BURY - INVERTEBRATE SURVEY 2023 - DAVE BENTLEY

BENILEY								
PRIORITY HABITAT I davebentleyecolog Methods include direct ca vacuuming, beating, shaki hand-searching. Pond net	yatgmail.com nvas bag netting, ing,	Broad	Eng/ W	D MEADO	Ches h		HINS LANE Habitat	No of plots
2021 - results added in.		Habi-	Sta-	Sta-	Sta-	Habitat	per	/
Explanatory notes at foo	t of table	tat	tus	tus	tus	simplified	literature	sam
TOTAL INVERTEBRA	TE TAXA: 400 taxa							ples
PROTOZOA:							Canal/river/lake on	
Ephydatia fluviatilis	Green Sponge	A		NC	NC	Wetland	hard substrate	1
LUMBRICIDAE:	EARTHWORM: 2 sp	ecies:						
Lumbricus rubellus	Red Worm	Т	C	С	С	Wood edge	Least habitat specifi Earthworm	c 1
Lumbriculus variegatus	Oligochate Worm	W	C	C	C	Wetland	Wetland shallows	1
HIRUDINEA:	LEECHES:			C	Č	Wettalia	Wettand Shano WS	1
	EEE CITES!						Streams, ponds,	
Glossiphonia complanata	Grey Mollusc Leech	A	C	C	С	Wetland	swamps with molluses	1
TRICLADIDA:	FLATWORMS:							
Dendrocoelum lacteum	Milky Flatworm	A	C	C	С	Wetland	Ponds, slow streams	s 1
Polycelis nigra	Black Flatworm	Α	С	C	С	Wetland	Lowland streams, lakes, ponds	1
MOLLUSCA:	SNAILS, MUSSELS &			C	C	wettand	iakes, polius	1
MOLLESCA.	SIVALES, MUSSELES	x SLOGS.	species.				Woods, hedges,	
Aegopinella nitidula	Smooth Glass Snail	Т	C	C	С	Wood edge	gardens, roughs, waste	1
						Wood	Many habitats,	
Cepaea hortensis	White-lipped Banded S	nail T	C	C	С	edge	wetter than nemorali	s 1
Cepaea sp						Wood	Woods, hedges,	
Cornu aspersum	Garden Snail	T	A	C	C	edge	gardens	2
Monacha cantiana	Pink Kentish Snail	T	A	L	C	Roughs	Roadside, railways, rough ground	1
Nesovitrea hammonis	Rayed Glass Snail	Т	С	C?	C?	Wood edge	Widespread + acid woods	1
Oxyloma elegans	Pfeiffer's Amber Snail	W	C	C.	C.	Wetland	Wetlands	1
Ancylus fluviatilis	River Limpet	A	C	C	C	Streams	Clean, stony stream	
•	1						Permanent ponds,	
Bithynia tentaculata	Operculate Snail	A	С	С	С	Wetland	canals, lakes Streams, river,	1
Planorbis carinatus	Keeled Ramshorn	A	C	C	C	Wetland	ponds, lakes	1
Ampullaceana balthica (Lym per)	Wandering Snail	A	C	C	C	Wetland	Ponds	1
Sphaerium corneum	Horny Orb Mussel	A	C	C	C	Wetland	Ponds and lakes	1
Arion subfuscus	Yellow-slimed Dusky S	Slug T	C	C	С	Roughs	All habitats, disturbed or natural	. 1
Arion sn	I ama Anian not datam	Č			9	110 48115		1

Large Arion not determined

Arion sp

Deroceras reticulatum	Netted Field Slug	T	C	C	С	Roughs	All open habitats (not big wetlands)	1
Deroceras invadens	Tramp Slug (pale pore)	T	A	C	C	Roughs	Disturbed habitats	2
Deroceras laeve	Marsh Slug	W	C	C	C	Wetland Wood	Wetlands, also mountains Everywhere, BL	1
Limax maximus	Leopard Slug	T	C	C	C	edge	woodland preferred	1
HYMENOPTERA:	BEES, WASPS, ANTS, SAV	WFLIE	S: taxa:					
Ant species:								
Lasius niger	Common Hairy-faced Black Ant	T	C	L	C/L	Roughs	Open habitats	4
Myrmica ruginodis	Long-spined Red Ant	T	C	C/L	C	Roughs	Most habitats, rural or urban	2
Myrmica scabrinodis	Right-angle-antennaed Red Ant	W^+	C/L	L	L	Wetlands	Many natural habitats, bogs.	3
Bee species:								
Andrena sp	Horizontal mines					Flower meadows	Vertical cliffs of clay	1
Apis mellifera	Honey Bee	T	A	C	C	Flower meadows	Domesticated; some feral colonies Gardens, open	3
Bombus lapidarius	Large Red-tailed Bumblebee	Т	C	C	С	Flower meadows	countryside, woodland	4
Bombus lucorum (stricto)	White-tailed Bumblebee	T	C	C/L	C	Flower	Most habitats except uplands	4
Bombus pascuorum	Common Carder Bee	T	С	С	С	Flower meadows	Wide variety of habitats	2
•						Flower	Most habitats inc	
Bombus terrestris	Buff-tailed Bumblebee	T	С	С	С	meadows Flower	urban, not montane Miners in bareish	4
Halictus tumulorum	Bronze Furrow Bee	T	C/l	VL	VL	meadows	horizontal ground	3
other Hymenoptera taxa	1:						Open habitats/urban.	
						Wood	Burrows, buildings,	
Vespula vulgaris	Common Wasp	T	C	C	C	edge Wood	trees. Parasite of common	2
Acrodactyla quadrisculpta larva	Tetragnatha montana spider parasite as larvae	T	?	NC	NC	edge Wood	spider named Hedges/ copses.	1
Achaius oratorius	Black & White Ichneumon	T	L	VL	VL	edge	Attacks Lepidoptera	1
Ichneumon (numerous spe-	cies)	T						7
Micro wasps (numerous sp	pecies)	T						8
Symphata (caterpillars)	Sawfly caterpillar	T						7
MYRIAPODA:	CENTIPEDES & MILLIPE	EDES:	species:					
	Australian One-eyed	T		NG	NG	D I	Damp habitats, arable, heath, moor,	1
Lamyctes emarginatus	Centipede Common Lithobius	T	A	NC	NC	Roughs	riverside Urban, suburban,	1
Lithobius forficatus	Centipede	T	С	C	С	Roughs	many rural areas	1
ORTHROPTEROIDEA	GRASSHOPPERS (+ EAR\ Common Green	WIG):	species:				Old grassland, damp	
Omocestus viridulus	Grasshopper	T	С	C/L	C/L	Roughs	meadows, rides Unmanaged	3
Chorthipus brunneus	Field Grasshopper	T	C	C/L	C	Roughs Wood	grassland, roughs, heaths Forests, agricultural,	4
Forficula auricularia	Common Earwig	T	C	C	C	edge	suburban areas	2
ARACHNIDA:	SPIDERS, HARVESTMEN	, MITE	S: taxa:					
Spider species:								
Agalenatea redii	Ruddy Orbweb Spider	T	L	VL	L	Roughs Wood	Heather, Gorse, roughs, damp grass	4
Araniella cucurbitana	Common Cucumber Spider Garden Cross Orb-web	T	C	VL	C/L	edge	Trees, woods, hedges Wide range of	1
Araneus diadematus	Spider	T	C	C	C	Roughs	habitats Tall grasses, heather,	2
Araneus quadratus	4-spot Orb-web Spider	T	C/L	C	C	Roughs	gorse Marshes, reeds,	7
Larinioides cornutus	Shield Orb-web Spider	W	C	C	C	Wetland	damp grass	7

	V-11 (D					W/ 4	Roughs, wood edges,	
Dictyna arundinacea	Yellow & Brown Meshweaver Spider	T	C/L	L	C/L	Wood edge Wood	hedges, Gorse/Heather Bushes, trees low	4
Ero cambridgei	Pirate Spider	T	C	VL	L	edge	vegetation	1
Pirata piraticus	Cabin Hooks Otter Spider	W	C	C	C	Wetland	Wetlands, bogs Heath, roughs,	3
Alopecosa pulverulenta Pardosa amentata (very	Dusty Wolf Spider Lump-hammer Wolf	T	C	L	C/L	Roughs	moors, quarries Wide range, inc	1
banded)	Spider	T	C	L	C	Roughs	gardens Grass, heath, moor,	2
Pardosa pullata	Bolster-chisel Wolf Spider	T	C	C/L	C	Roughs	woods, waste	1
Pardosa sp	Wolf Spider (not determinabl Dark-fore-legged Wolf	e)					Damp grass,	9
Trochosa ruricola	Spider Spider	W	C	L	L	Wetland	marshes, ditches Grassland, heaths,	2
Pisaura mirabilis	Nurseryweb Spider Hoof-palped Yellow Sac	T	C/L	C	C	Roughs	open woods Dry habitats in South	6
Clubiona diversa	Spider	W	L	L	L	Wetland Wood	Eng, bogs in North Trees, shrubs,	3
Clubiona pallidula	Red & Yellow Sac Spider Tooth-fanged Long-jawed	T	L	VL	C/L	edge	gardens	2
Pachygnatha clerki	Hunting Spider Least Long-jawed Hunting	W	C	C	С	Wetland Wood	Marshes. By water Woodland rides to	3
Pachygnatha degeeri	Spider Banded V-marked Long-	T	C	C/L	C/L	edge	derelict land Low veg close to/	6
Tetragnatha extensa	jawed Web-spinner Paler solid-coloured Long-	W	C	C	С	Wetland Wood	over water Low veg, bushes,	9
Tetragnatha montana	jawed Web-spinner	T	С	С	С	edge	trees Roughs, marshland,	1
Tibellus oblongus	Less-spotted Tibellus	T	C/L	L	L	Roughs	heaths	2
Enoplognatha						Wood	Gorse, oak, nettles,	1
Phylloneta impressa	Banded-leg Therid Spider Common Running Crab	T	L	L	L	edge Wood	thistles Trees, scrub, hedge,	3
Philodromus aureolus	Spider	T	C/L	VL	C/L	edge	woods	2
Xysticus cristatus	Common Anchor Crab Spider	T	C	C/L	C	Roughs	Low vegetation but not woodland Fens, marshes,	9
Baryphyma trifrons	Yellow-legged Dark- bodied Money Spider	W	L	L	VL	Wetland	swamps, damp grass, dunes	6
Bathyphantes gracilis	Wide-loop Money Spider Saw-edged-palp	T	C	C	C	Roughs	Roughs, heaths, woods, marsh	1
Cnephalocotes obscurus	Black/Yellow Money spider	T	C/L	C/L	C/L	Roughs	Detritus, moss, other vegetation	2
Dicymbium nigrum	Orange & Brown Money Spider	W+	C/L	L	C/L	Wetland	Bogs, marsh, wood, heath, roughs	1
Erigone atra	Aeronaut Money Spider	T	C	C/L	С	Roughs	Aeronaut. Many wild habitats	1
Gnathonarium dentatum	Pelican-palped Money Spider	W	C/L	L	C/L	Wetland	Lowland wetlands, inundation grassland	1
Microlinyphia pusilla	Brown spotted Linyphid	W	C	L	C	Wetland	Roughs, damp	
71 1	Spider					Wood	grassland Wide range in leaf	2
Neriene clathrata	W-marked Linyphid Spider Brown Money Spider (seen	T	C/L	C/L	С	edge	litter and low veg Grassland, wetland,	1
Oedothorax fuscus	by Rich Burkmar)	T	С	C/L	С	Roughs	woodland, heath Grassland, farmland	1
Oedothorax retusus	Two-pitted Money Spider	T	C	C/L	С	Roughs	grass	1
Oedothorax sp	Scutumed Fingered Money					Flower	Grasslands, moss,	
Pelecopsis parallelus	Spider	T	C/L	VL	VL	meadows	detritus, stones Low veg, moss, leaf	2
Tenuiphantes tenuis	Bolas Linyphid Spider (was Lepthy)	Т	C	C/L	С	Roughs	litter, grassland, wetland	1
Tenuiphantes zimmermanni	Spots-n-stripes Linyphid Spider (was Lepthy)	T	C	C/L	C	Wood edge	Litter and logs in Woods. Heaths	1
Harvestman species:	r (as z-tpmj)	-		S. E	_	2000	5 1	-
Leiobunum rotundum	Orange & Black Harvestman	T	C	L	С	Wood edge	Woods, hedges, rocks, gardens, heath	1

Oligolophus tridens	Short-saddled Harvestman	T	C	L	C	Roughs	Most habitats, woods, gardens, roughs	3
Paroligolophus agrestis Platybunus (Rilaena)	Pincered Harvestman	T	C	C	C	Roughs Wood	Most habitats inc woods and roughs Wood, grassland,	4
triangularis	Low-crowned Harvestman	T	C	C/L	C/L	edge	bushes	1
Mite taxa:								
Anystidae	Whirligig Mite Three-lined fringed Beetle	T				Roughs	Ground layer	2
Camisiidae	Mite	T				Roughs	Ground layer	4
Astigmatina	Soft Mite	W				Roughs	Ground layer	1
Galumnidae	Forward-pointed-wing Mite	T				Roughs	Ground layer	4
Ceratoppia sp Euzetes globulus	Horned Bulb Mite	T				Roughs	Ground layer	1
(nitens?)	1mm Large Helmet Mite	T	C	C?	C	Roughs	Ground layer	3
Bdlellidae	Snout Mite 1.5mm Soft Red Velvet	T				Roughs	Ground layer	5
Erythraeidae	Mite	T				Roughs	Ground layer	2
Olgasamidae	50/50 orange hard					Roughs	Ground layer	3
Parasitidae	Orange Hard Mite	T				Roughs	Ground layer	4
MICROCRUSTACEA	MICROCRUSTACEANS: 1	taxa					Standing waters/wet	
Cyclops spp	Cyclopic Copepods	A				Wetland	marshes	1
MALACOSTRACA:	CRUSTACEANS: species:						Wide veniety of	
Asellus aquaticus	Common Hoglouse	A	C	C	C	Wetland	Wide variety of waterbodies Running water	2
Gammarus pulex (stricto)	Freshwater Shrimp	A	C	C	С	Wetland	mostly/large waterbodies	1
	Common Striped Woodlouse (head dot,						Hedges, roughs,	
Philoscia muscorum	lateral bands) Common Rough	T	C	C	C	Roughs	woods, gardens Wide range, drier	4
Porcellio scaber	Woodlouse	T	C	C	C	Roughs	than Oniscus	2
MEGALOPTERA:	LACEWINGS & SCORPIC	N FLII	ES: speci	es:				
	Lacewing larva						Ponds with	3
Sialis lutaria	Common Alderfly	A+	C	L	C	Wetland	reedswamp and silt	1
EPHEMEROPTERA:	Mayflies: 1 species:							
Baetis rhodani	Common Stream Mayfly	A+	C	C	C	Streams	Riffles in streams & rivers	1
Baetis vernus	Medium Olive Mayfly	A+	C/L	NC	L	Streams	Pools/margins rivers/streams	1
PLECOPTERA:								
Leuctra fusca	Dark Stonefly	A+	C/L	VL	NC	Wetland	Mainly upland streams	1
TRICHOPTERA:	Caddisflies: species:							
Limnephilus rhombicus	Rhomboid-patch Caddis	A+	L	L	L	Wetland	Still and slow waters Streams, ponds,	1
Limnephilus lunatus	Crescent-moon Caddis	A+	C	C	C	Wetland	lakes, marshes Small temporary	1
Micropterna lateralis	Brown Stream Caddis Brown & Yellow Stream	A+	C	C/L	C	Streams	streams/ditches Small streams, can	1
Micropterna sequax Potamophylax	Caddis	A+	C	C	С	Streams	be semi-permanent	1
cingulatus	Pale-eyed River caddis	A+	C/L	C/L	C/L	Streams	Streams and rivers	1
Potamophylax latipennis	Brown-eyed River Caddis Multi-hooked Cased	A+	C	C/L	C/L	Streams	Streams, rivers, lakes Rivers, streams,	1
Sericostoma personatum Hydropsyche	Caddis Dark Brown Caseless	A+	С	C/L	C/L	Streams	stony lakes Rivers, streams, lake	1
angustipennis	Caddis	A+	C	C	C	Streams	outfalls Clean rivers &	1
Rhyacophila dorsalis	Branched Gill Caddis	A+	C	C	С	Streams	streams	1
ODONATA:	DRAGONFLIES & DAMS	ELFLIE	ES: speci	es:				

Aeshna cyanea	Southern Hawker Dragonfly	A+	C	C	C	Wetland	Ponds + margins	1
Aeshna grandis	Brown Hawker Dragonfly	A+	C/L	C	C	Wetland	Ponds + margins	1
Aeshna mixta	Migrant Hawker	A+	C	C/L	C	Wetland	Standing water, hedges, wood edge	1
Anax imperator	Emperor Dragonfly	A+	C	C	C	Wetland	Deeper Ponds + margins	3
Libellula depressa	Broad-bodied Chaser Dragonfly (up)	A+	C	C/L	С	Wetland	Shallow muddy bottom ponds + margins	1
Sympetrum danae	Black Darter	AH	L	L	L	Wetland	Heaths, moors, bogs. Sphagnum	1
(photo)	Common Darter Dragonfly	AH A+	C	C	C	Wetland	Ponds + margins	3
Sympetrum striolatum HEMIPTERA:	WATER BUGS:	A^{\top}	C	C	C	Wettalid	Folids + margins	3
HEMIPTEKA;	WATER BUGS:						Mostly	
Velia caprai	Water Cricket	A	С	C	С	Wetland	rivers/streams: little vegetation	1
HEMIPTERA:	LAND BUGS: taxa:	••				· · · · · · · · · · · · · · · · · · ·	regenmen	•
Shorebug species:	En (D De Go) vinim							
•	C Chh	W	C/I	т	C/I	W-411	Pond and ditch	1
Saldula saltatoria	Common Shorebug	W	C/L	L	C/L	Wetland	margins. Predator.	1
Shieldbug species: Aelia acuminata	Distants Mitos Chiaddhas	т	C/I	371	L			
Aetia acuminata	Bishop's Mitre Shieldbug	T	C/L	VL	L		Roasaceae. Many	1
Dolycoris baccarum	Sloe (Hairy) Shieldbug	Т	С	C/L	С	Wood edge	habitats, hedges, wood edges	9
Doiycoris baccarum	(),					Wood	Trees and shrubs, inc	
Palomena prasina	Green Shieldbug	T	С	С	С	edge	gardens Attacks beetles which feed on	6
Zicrona caerulea	Blue Shieldbug	W+	C	C/L	C/L	Wetland	Willowherb	1
Lacebug species:						W 4	Tishan an Anna an	
Physatocheila dumetorum/confinis	Lichen Lacebug	T	L	NC	VL	Wood edge	Lichen on trees, esp Hawthorn	1
Flower Bug species:								
Anthocoris	Unidentifiable nymphs							2
Orius not horvathi	Unnamed Minute Flower Bug	Т	?	NC	NC	Wood edge	Deciduous trees, inc Elm, Lime	2
Plant Bug species:	245	-	·	1,0	1,0	ougo	2, 2	_
Deraeocoris lutescens	Oals Bloot Dua	Т	C/L	C/L	C/L	Wood	Deciduous trees inc Oak	1
Deraeocoris iutescens	Oak Plant Bug Long-haired Tarnished	1				edge Wood	Wide variety of	1
Lygus rugulipennis	Plant Bug Dimorphic Hairy	T	С	C/L	С	edge	herbs & shrubs	7
Notostira elongata	Unpunctured Grassbug	T	C/L	C/L	C	Roughs	Grasslands	9
Phytocoris varipes	Long-legged Grass Bug	T	C/ L	L	L	Roughs	Rough grassland flowers/seeds Damp grassland.	1
Pithanus maerkelii	Pale-legged Black Ant-like Bug	T	C/L	L	L	Roughs	Predatory	1
Plagiognathus chrysanthemi	Green Spotted-legged Grassbug	T	C/L	L	L	Flower meadows	Grass & wastelands: Asteraceae	1
·	2-spurred Punctured					D1		
Stenodema calcarata	Grassbug	T	С	L	С	Roughs	Grass seeds Acid grasslands,	2
Stenodema holsata	Short Punctured Grassbug Unspurred Punctured	T	C/L	VL	VL	Roughs	mostly uplands Damp areas - grass	1
Stenodema laevigata	Grassbug	W	C	L	C	Wetland	seeds Marsh, with Leaf	8
Tytthus pygmaeus	Marsh Leaf Bug	W	L	NC	NC	Wetland	Hoppers	1
Ground Bug species:							D	
Cymus melanocephalus	Punctured Dark-scutellum Ground Bug V-marked Buff Ground	W	C	L	L	Wetland	Damp areas trefoil, loosestrife, rush Moss, grass, leaf	4
Drymus sylvaticus	Bug	T	C	VL	L	Roughs	litter	2
Heterogaster urticae	Grey Nettle Bug	T	C/L	L	L	Wood edge	Nettles	2
Peritrechus geniculatus	Bent-kneed Ground Bug	Т	C/L	NC	VL	Roughs	Dry grassland/ open habitats	2
	<u> </u>					_		

Scolopostethus nymph	(one of 3 species in area)	Т		L/NC				1
. , ,	Shiny Hairy Yellow-legged		C/T		177	TT d	Dry habitats, sandy	
Stygnocoris sabulosus	Ground Bug	T	C/L	VL	VL	Heaths	soils	2
Damselbug species:	Grey Damselbug (dark						Grassy habitats, inc	
Himacerus major	striped femurs) Hairy Grey Field	W+	C/L	VL	L	Wetland	dunes & salt marshes	1
Nabis ferus	Damselbug Yellow-margined	T	C/L	L	L	Roughs	Dry, grassy habitats Grassland, especially	2
Nabis flavomarginatus	Damselbug	T	C/L	L	L	Roughs	damper ones	3
Nabis rugosus	Common Damselbug Marsh Damselbug (small-	T	C/L	L	L	Roughs	Grassy habitats Damp grassland/wet	2
Nabis limbatus	winged broad-edged)	W	C/L	C/L	C	Wetland	meadows	4
Stiltbug species:								
Berytinus minor	Pale-kneed Stiltbug	T	L	VL	VL	Flower meadows	Clover & Lesser Trefoil	4
Larger Leafhopper spec	ries:							
Aphrodes bicincta/diminuta	Leafhopper (with +- identical females)	T/ W	L/VL	NC	NC		Dry habitats/ wet meadows	1
Arthaldeus pascuellus	Barbed Leafhopper	T	C/L	VL	VL	Roughs	Grasses, esp drier places	8
•	Dark-spotted Orange					Wood		
Balclutha punctata	Leafhopper	T	C/L	VL	VL	edge	Clearings in woods Damp grasslands,	2
Cicadella viridis	Large Green Leafhopper Long-antennaed 4-spot	W	C	C	C	Wetland	marshes Damp grassland,	4
Cicadula quadrinotata	Leafhopper Part-winged Buff	T	C/L	VL	L	Wetland	rush, sedge Damp habitats with	2
Conosanus obsoletus	Leafhopper	W	C/L	NC	VL	Wetland	rushes Mostly short, dry	2
Deltocephalus pulicaris	Bart Simpson Leafhopper	T	C/L	NC	VL	Roughs	grassland Dry/moist tall	1
Errastunus (Adarrus) ocellaris	Crossed-plates Eyed Leafhopper Mottled Stubby	T	C/L	L	VL	Roughs	grassland, ruderals Medium most	3
Euscelis incisus	Leafhopper	T	C/L	L	VL	Roughs	grasslands	9
Macrosteles laevis	a 6-spot Smiling Ghost Leafhopper	T	C/L	VL	NC	Roughs	Drier grasslands, disturbed areas Moist open habitats,	2
	a 6-spot Smiling Ghost						Juncus, Carex,	
Macrosteles sexnotatus Macrosteles	Leafhopper a 6-spot Smiling Ghost	W	C/L	VL	VL	Roughs	Clover Marshes, pond	2
viridigriseus	Leafhopper	W	C/L	NC	VL	Wetland	margins	4
Macrosteles (females	a 6-spot Smiling Ghost	117				XX7 (1 1	Marshes, pond	
only)	Leafhopper Orange & White-striped	W				Wetland	margins Tall grasses in woods	
Mocydia crocea	Leafhopper	T	C/L	VL	VL	Roughs	& meadows	3
Mocydiopsis parvicauda	Orange & White-striped Leafhopper	Т	L	NC	NC	Roughs	Grassy more acidic habitats	1
wocyatopsis par vicaua	Есиноррег	1			110	Roughs	Marsh sedges esp.	•
Notus flavipennis Paluda adumbrata	Golden-winged Leafhopper	W	C/L	VL	NC	Wetland	alkaline soil	1
(Rhopalopyx)	Leopard Leafhopper	T	L	NC	NC	Roughs	Dry or calcareous hillside grasses	1
D 1 1 4 1	Indented Yellow	***	X / T	NG	NG	XX (1 1	Moist shady site on	
Paluda flaveola	Leafhopper Red-eyed Goblet	W	VL	NC	NC	Wetland Wood	tall wetland grasses	1
Psammotettix confinis	Leafhopper Broad Buff Leafhopper	T	C	NC	VL	edge	Woodland glades	4
	Spotted pronotum, brown			NC(<60				
Streptanus sordidus	abdomen	W+	C/L)	VL	Wetland	Damp, grassy places	1
Small Leafhopper specie Edwardsiana	es:					Wood		
ulmiphagus	Elm Small Leafhopper C-marked dark-legged 15	T	VL	NC	NC	edge Wood	Elm trees Nettles & other low	1
Eupteryx urticae	spot Small Leafhopper 3-spotted Yellow Small	T	C	C/L	L	edge	vegetation	2
Zyginidia scutellaris	Leafhopper	T	C/L	VL	VL	Roughs	Rough grass	6
Planthopper species:								
•• •	Marsh Short-winged		_			***		
Conomelus anceps	Planthopper	W	C	VL	VL	Wetland	Damp areas/ Rushes	4

Delphacodes venosus	Pale Stumpy Planthopper	W+	L	VL	VL	Wetland	Sphagnum, Sedge, Rush, Festuca, Molinea	1
Ditropis pteridis?	Bracken Planthopper	T	C/L	VL	L	Wood edge	Often on Bracken in woods	1
Javesella pellucida	Stripe-faced Long-winged Planthopper	T	C/L	VL	VL	Roughs	Enriched grasslands Damp areas.	2
Muellerianella				NC(<60			Descĥampsia	
fairmairei	3-Banded Planthopper Long-winged Long-nosed	W	C/L)	NC	Wetland	<i>cespitosa</i> Diverse grassy	8
Stenocranus minutus	Planthopper	T	C/L	VL	VL	Roughs	habitats	2
Froghopper species:							Ni la lab	
Aphrophora major	Largest Fen Froghopper Pale-edged rear-spotted	W	NB	NC	L	Wetland	Nice marshes with willow	2
Neophilaenus lineatus	Froghopper	T	C	C	С	Roughs	Grassland Wide range of plants	7
Philaenus spumarius	Cuckoospit Froghopper	T	C	C	C	Roughs	inc gardens	7
Jumping Plant Louse sp	ecies:							
Cacopsylla sp	Jumping Plant Louse Nettle Jumping Plant	T	C/L	VL	VL	Wood		1
Trioza urticae	Louse	T	C	NC	VL	edge	Nettles etc	1
Greenfly species:						XX7 1		
Aphis fabae?	Black Bean Blackfly Aphid	T	C	VL	VL	Wood edge	Spindle, Beans, other pants	1
Atheroides serrulatus	Orange Grass Aphid	T		NC	NC	Roughs	Grasses and sedges	2
Megoura viciae	Vetch Aphid	T	C?	VL	C?	Flower meadows Wood	Trefoils and Vetches	3
Microlophium carnosum	Large Nettle Aphid Green Peach-Potato	T	C	VL	C?	edge	Nettles	4
Myzus persicae	Aphid.dark feet, dark tip to long siphons	T	A	NC	C?	Flower meadows	Wide range of plants	2
Aphid	Many-sclerited Aphid	T				Flower	On roots of Thistles,	1
Trama troglodytes	Artichoke Tuber Aphid	T		NC	NC	meadows	Yarrow etc	1
Aphid spp	Aphid (Misc)	T						3
LEPIDOPTERA:	BUTTERFLIES & MOTHS	S: 18 ta	xa:					
Butterfly species:							E N-44	
						Wood	Eggs Nettles. Adults:open woods,	
Aglais io	Peacock Butterfly	T	С	С	С	edge	rides, edges Eggs laid on Nettles.	1
A It is	Small Tortoiseshell	т	C	C	C	Wood	Many habitats	
Agalis urticae	Butterfly	T	С	С	С	edge Flower	including gardens Eggs on Sorrel &	1
Lycaena phlaeas	Small Copper Butterfly	T	С	С	С	meadows	Dock. Flowers Eggs on grasses. Meadows, hedges,	1
Maniola jurtina	Meadow Brown Butterfly	T	C	C	C	Roughs	open woods.	3
Pararge aegeria	Speckled Wood Butterfly	T	C	C	C	Wood edge	Aphid honeydew; lays on tough grasses	2
Pieris brassicae	Large White Butterfly	T	C	C	C	Flower meadows	Eggs on Brassicas; Adult visits flowers	1
Polygonia c-album	Comma	T	C	C	С	Wood edge	Eggs laid on Nettles, Willows.	2
							Eggs on grasses; Bramble, Co	
Pyronia tithonus	Gatekeeper Butterfly	T	C	C	C	Flower meadows	Fleabane, Ragworts etc	2
Vanessa atalanta	Red Admiral Butterfly	Т	C	C	С	Wood edge	Nectar feeder. Lays on Nettles	3
Moth species:	rea Hammar Butterriy	•	Č		C	cago	on retues	5
Moth or caterpillar		T						7
Geometridae (other)	Looper moth caterpillar	T						5
Noctudiae (other)	Moth caterpillar/damaged Adult	Т						8
1,00mmue (cmer)	11001	-						Ü

Autographa gamma	Silver Y Moth	T	C	C	C	Roughs Wood	Range of low plants inc Nettles Willow + Poplar,	1
Catocala nupta	Red Underwing	T	C/L	C	C	edge	carr, scrub, wood Range of habitats:	1
Noctua pronuba	Large Yellow Underwing	T	C	C	C	Wood edge	Dock, Nettle, Foxglove Tube-case-bearing	1
Coleophora sp	cased micromoth caterpillar	Т	С	(L)	(L)	Roughs	larvae in tall vegetation	1
Deilephila elpenor	Elephant Hawk Moth	T	C	C	C	Roughs	Rosebay Willowherb	1
Eupithecia subfuscata	Grey Pug	T	C	C	С	Roughs	Range of herbs, flowers, leaves Variety of habitats	1
Mormo maura	Old Lady Moth	W	C/L	C	C/L	Wetland	near water, Blackthorn	1
Spilosoma lubricipeda	White Ermine Moth	T	C	C/L	C	Wood edge	Nettle, Dock etc	2
COLEOPTERA:	BEETLES: taxa:							
Water Beetle species:								
Gyrinus substriatus	Common Pond Whirligig Beetle	A	C	C	C	Wetland	Permanent ponds	1
Agabus bipustulatus	Common Black Diving Beetle	A	С	C	С	Wetland	Permanent ponds	1
Ilybius fuliginosus	Side-banded Diving Beetle	A	C	C	C	Wetland	Permanent Ponds	1
Rhantus suturalis	3-spot Gold-speckled Diving Beetle	A	C/L	L	L	Wetland	Wide variety of ponds	1
77 1	Common Small Brown		C			XX .1 1	Ponds and marshy	
Hydroporus planus	Diving Beetle Brown Domed Scavenger	A	С	С	С	Wetland	pools Pond & stream edges, woodland	1
Anacaena globulus	Beetle Brown Domed Scavenger	W	C	C	C	Wetland	pools Well-vegetated	1
Anacaena limbata	Beetle Black Domed Scavenger	W	C	C	C	Wetland	marshes / pond edges Marshes / pond	1
Coelostoma orbiculare	Beetle	W	C	C/L	C/L	Wetland	edges Marshes / pond	1
Helophorus brevipalpis	Golden Scavenger Beetle Large-toothed Greater	W	C	C	C	Wetland	edges Marshes / pond	2
Helophorus grandis	Scavenger Beetle Pale Brown Scavenger	W	C	C	C	Wetland	edges Muddy habitats pH 7	1
Helophorus obscurus	Beetle	W	C	C/L	C/L	Wetland	and above Rivers, streams, esp	1
Elmis aenea	Riffle Beetle Least Dark-headed Marsh	W	C	VL	L	Streams	headwaters, mossy riffles Marshes / pond	1
Cyphon padi	Beetle	W	C	VL	C/L	Wetland	edges	1
Leaf & Flea Beetle speci								
Cassida rubiginosa	Green Thistle Tortoise Beetle Greenish Yellow-	T	C	C/L	C	Roughs	Roughs and tall herb, Creeping Thistle	1
Chaetocnema hortensis	antennaed Erratic Flea Beetle	T	C/L	VL	C/L	Roughs	Grasses, wild & cultivated	1
Longitarsus gracilis	Pale Longitarsus Flea Beetle Large dark-headed-dark-	T	L	NC		Flower meadows Flower	Asteracea esp Ragwort	1
Longitarsus atricillus	sutured Longitarsus	T	C/L	NC	NC	meadows	esp Pea family Many plants, leaves,	5
Longitarsus luridus Longitarsus	Common Dark Flea Beetle Narrowly-dark-sutured	T	C	VL	L	Roughs Flower	roots. Grass tussocks	4
melanocephalus	pale Longitarsus Small dark headed pale-	T	C/L	VL	L	meadows Flower	Plantain	3
Longitarsus pratensis Neocrepidodera	elytrad Longitarsus Small Orange Wheat Flea	T	C/L	NC	NC	meadows	Plantain Wild & cultivated	8
ferruginea	Beetle	T	C/L	VL	C/L	Roughs	grasses	1
Neocrepidodera transversa	Large Orange Wheat Flea Beetle	T	C	L	C/L	Roughs	Various plants in many habitats	3
Psylliodes	Calibration Florida	T	C/L	VL	L	Flower meadows	Brassicaceae	2
chrysocephala	Cabbage-stem Flea Beetle	1	CIL		_	1110440	Phragmites, Phalaris,	

Ladybird	species:
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Ladybird species:								
Coccidula rufa	Red Marsh Ladybird	W	C	C	C	Wetland	Aphids, tall wetland grasses/reeds Anywhere with	2
Coccinella 7-punctata	Common 7 Spot Red Ladybird	T	C	C	C	Any	Aphids. Low herbage.	7
Harmonia axyridis	Harlequin Ladybird (red or black)	T	A	C	C	Any	Aphids. Trees, scrub, grass, marsh.	1
Hippodamia variegata	Adonis Ladybird	T	NB	L	C/L	Roughs	Dry & bare ground with tall herbs	1
Propylea 14-punctata	14 Spot Yellow Ladybird	T	C	C	C	Wood edge	Tall vegetation, trees, overwinters	3
Psyllobora 22-punctata	22 Spot Yellow Ladybird	T	C	C	C	Roughs	Low vegetation: mildew feeder	3
Rhyzobius litura	U-marked Ladybird	W+	C/L	L	C	Wetland Wood	Grasses, thistle, nettle, rush, reed	8
Rhyzobius lophanthae	Australian Yellow Ladybird	T	A	NC	NC	edge	On cypress and other trees	1
Tytthaspis 16-punctata	16 Spot Beige Ladybird	T	C/L	L	L	Roughs	Grassland: pollen, fungi, nectar	1
Ground Beetle species:								
Amara communis	Part-punctured Sunshiner GB	T	C	L	C/L	Wood edge	Moss & leaf litter Open/semi-open	2
Amara lunicollis	Mesophile Sunshiner GB	T	C	L	VL	Roughs	habitats. Matted grassland.	1
Anisodactylus binotatus	Common Short-spur GB	W	C/L	L	L	Wetland	Damp meadows, arable & marsh Dry sunny habitats,	1
Bembidion lampros	12-rowed Ground Beetle	T	C	C	C	Roughs	esp gardens, agriculture	3
Bembidion properans	14-rowed Ground Beetle	T	C/L	VL	L	Roughs	Dry, open, clay soils Damp or shaded	2
Pterostichus vernalis	Spring Blackclock GB	T	C	L	L	Roughs	lowlands, esp grassland	1
Rove Beetle species:								
							Lowland grass tussocks/moss in	
Stenus aceris	Camphor Beetle	T	L	VL	VL	Roughs	grass/wood Wet grassland esp	1
Stenus cicindeloides	Shining Camphor Beetle Toadspawn Camphor	W	C	L	C	Wetland	Juneus and others	1
Stenus clavicornis	Beetle	T	C	L	C	Roughs	Farmland/dry/damp	2
Stenus fulvicornis	Camphor Beetle Hairy-chested Black	W	C/L	L	L	Wetland	Rush pasture etc Wetlands of many	2
Stenus juno	Camphor Beetle	W	C	L	C/L	Wetland	kinds Lake margins, fens,	2
Stenus latifrons	Camphor Beetle	W	C/L	VL	VL	Wetland	swamps Hay, arable margins,	1
Stenus nanus	Camphor Beetle	W+	C/L	VL	L	Roughs	wet grass, sandy shores Tussocks in marshes,	1
Stenus ossium	Camphor Beetle	W	C/L	VL	L	Wetland	dryish grassland, dunes	3
Stenus picipes	Camphor Beetle	T	C/L	VL	L	Wetland	Dry to wet grassland	1
Stenus similis	Tube-bodied Camphor Beetle Feather-wing Rove Beetle	T T/	C/L	L	C/L	Heaths	Drier grassland & heathland, mountains Taken in ground	6
Acrotrichis sp Aleocharinae (several	(1mm) Brown Rove Beetles	W					vegetation	3
species)	(various) Distinctive-head Rove	W				Wetland	Tussocks, leaf litter,	4
Metopsia clypeata Micropeplus	Beetle Beetle	T	C/L	L	L	Roughs	dung, fungi Damp/wet decaying	1
staphylinoides	Well-grooved Rove Beetle Green-winged Black Rove	T	C/L	VL	C	Roughs	vegetation/ hay Open woods, heath-	1
Philonthus carbonarius	Beetle	T	C/L	L	C/L	Heaths	grassland Damp soil, open	1
Philonthus cognatus	Bicolour-antennaed Black Rove Beetle	T	C	L	C/L	Heaths	woods, heath- grassland Open habitats on	1
Quedius levicollis	Three-eye dot Rove Beetle	T	C/L	NC	L	Roughs	damp to drier soil	1

	Red-fringed-wing Rove							
Quedius semiobscurus	Beetle Pale-edged Black Rove	T	C/L	NC	VL	Roughs	Open drier habitats Leaf litter, thick	1
Tachinus rufipes	Beetle Black Rove	T	C/L	VL	C	Roughs	grass, dung, logs Leaf litter, rotting	1
Tachyporus dispar	8-hair-edged Yellow & Black Rove Beetle Bi-coloured-pronotum	T	C	VL	L	Roughs	grass, moss, soil surface Leaf litter, rotting	5
Tachyporus hypnorum	Yellow & Black Rove Beetle	W+	C	L	C/L	Wetland	grass, moss, soil surface Leaf litter, rotting	1
Tachyporus nitidulus	Yellow & Black Rove Beetle Narrow-necked Rove	T	C	NC	L	Wetland	grass, moss, soil surface	1
Xantholinus linearis	Beetle Narrow-necked Rove	T	C/L	L	C	Roughs	Dry, open situations Open situations,	1
Xantholinus longiventris	Beetle	T	C	L	C	Roughs	some damp	2
Xantholinus	(Unidentified female)							
Weevil species:								
Apion frumentarium	Orange Dock Weevil Low-foreheaded Apion	T	C/L	C	C	Roughs Flower	Docks	2
Catapion pubescens	Weevil	T	Nb	NC	NC	meadows Flower	Trefoils Thistles esp,	2
Ceratapion onopordi	Thistle Weevil	T	C/L	NC	L	meadows	grassland/brownfield Greater Bird's-foot	1
Coelositona cambricus	Welsh Sitona Weevil Meadow Vetchling Seed	W	C/L	VL	VL	Wetland	Trefoil	1
Eutrichapion ervi	Weevil Eye-beard, yellow/part antennae	T	C/L	VL	L	Flower meadows Flower	Meadow Vetchling, vetches	2
Eutrichapion viciae	Yellow-legged Bearded Weevil	T	C/L	VL	VL	meadows	Vetchling and Vetches	2
Holotrichapion aethiops	Vetch Weevil Furrow-nosed Red Clover	T	L	NC	VL	Flower meadows Flower	on Vetches	1
Hypera meles	Weevil Black-nosed Green Clover	T	NA	NC	VL	meadows Flower	Red Clover esp Clover & Bird's-foot-	1
Hypera nigrirostris	Weevil	T	C/L	L	VL	meadows Flower	trefoil	5
Hypera postica Ischnopterapion	Clover Leaf Weevil	T	C/L	VL	VL	meadows	Clover Greater Bird's-foot	1
modestum	Bird's-foot Trefoil Weevil White Clover Weevil	W	L	NC	NC	Wetland Flower	Trefoil	1
Ischnopterapion virens	(green/purple) Red-patched Ribwort	T	L/C	VL	L	meadows Flower	White Clover	2
Mecinus pascuorum	Plantain Weevil Black Ribwort Plantain	T	C/L	VL	L	meadows Flower	Ribwort Plantain	7
Mecinus pyraster	Weevil Small White-patched	T	C/L	VL	L	meadows Wood	Ribwort Plantain	4
Nedyus quadrimaculatus	Nettle Weevil Small pinch-nosed	T	C	C/L	С	edge Flower	Nettles	1
Oxystoma cerdo	antennae 1 yellow weevil	T	Nb	VL	L	meadows Wood	Tufted Vetch	1
Parethelcus pollinarius	Head-lights Nettle Weevil Common Black Dock	T	C	L	L	edge	Nettles Well vegetated areas	1
Perapion curtirostre	Weevil Straight-sided Blue Dock	T+	C/L	VL	C/L	Roughs	with Rumex	1
Perapion hydrolapathi	Weevil Smooth Dark-legged	T+	C/L	NC	C/L	Roughs Flower	Docks	1
Protapion apricans	Weevil	T	C/L	VL	C/L	meadows Flower	Red Clover	7
Protapion assimile	Rough Dark-legged Weevil Yellow-legged Black-	T	C/L	VL	VL	meadows Flower	On Clover	8
Protapion fulvipes	nosed Weevil	T	C	L	L	meadows Flower	White Clover	4
Protapion nigritarse	Yellow-nosed Weevil	T	C/L	NC	VL	meadows Flower	Lesser Trefoil Red Clover, Zig-zag	7
Protapion trifolii Rhinoncus pericarpus	Dark-trochantered Weevil Smooth Cream-spotted	T	C/L	NC	L	meadows Flower	Clover	4
(pre 2014)	Sorrel Weevil Flat-eyed Hairy Clover-	T	C	VL	C/L	meadows Flower	Sorrel & Docks Various herbs, often	5
Sitona hispidulus	root Weevil Big-eyed Striped Sitona	T	C/L	VL	VL	meadows Flower	Clover	5
Sitona lineatus	Weevil	T	C	C/L	C/L	meadows	Vetches, grasslands	5

Sitona obsoletus (lepidus)	6-spotted Cinnamon Sitona Weevil	Т	C/L	VL	VL	Flower meadows	Trifolium Clovers	2
(teptaus)	Big-eyed Side-banded	1			VL	Flower	Clover, Bird's-foot	2
Sitona sulcifrons	Sitona Weevil	T	C	VL	NC	meadows	Trefoil	5
Sitona suturalis	Striped Sitona Weevil	T	C/L	VL	VL	Flower meadows Flower	Meadow Vetchling, vetches	3
Stenopterapion tenue	Medick Weevil	T	L	NC	VL	meadows	Medicks	1
Trichosirocalus troglodytes	Square-backed Ribwort Plantain Weevil	Т	C/L	L	C/L	Flower meadows	Ribwort Plantain	7
Dung specialists:	Tiditalii Weevii		CIL	L	CIL	meadows	Riowort Fiantain	,
· .	Dumble Dor Beetle	Т	C/L	NC	VL	Pasture	Dung of herbivores	1
Geotrupes spiniger	Dunible Doi Beetle	1	C/L	NC	VL	rasture	Dung of herotvoies	1
Other Beetle species:							Wetter areas around	
Anthocomus rufus	Red and Black Beetle	W	C/L	VL	L	Wetland	reedbeds & margins.	1
Brachypterus urticae	Pale-legged Short-winged Nettle Pollen Beetle	T	C	L	С	Wood edge	Nettle flowers & buds	1
• •						Wood	Fungi. Compost, leaf	
Cartodere nodifer	Noduled Catodere Latrid Round-pronotum Latrid	T	A	L	C/L	edge	litter, logs.	1
Corticarina minuta	(1.5 to 1.8mm), head pron					Wood	Fungi. Compost, leaf	
(fuscula)	dark. A9 long. Narrow-pronotum Latrid	T	C/L	VL	C/L	edge Wood	litter, logs.	3
Cortinicara gibbosa	(no 1st sternite lines)	T	C	L	С	edge	Flowers	2
	W-1-1 Ch-f-	т	C/I	C/I	C	Flower	Meadows, hedges,	1
Hoplia philanthus	Welsh Chafer Green Swollen-thighed	T	C/L	C/L	С	meadows Flower	wood edge Flower meadows,	1
Oedemera nobilis	Beetle	T	C/L	C/L	C	meadows	gardens, roughs	1
Telmatophilus caricis	Burreed Pollen Beetle	W	C/L	VL	L	Wetland	On Burreed	1
DIPTERA:	TRUE FLIES: taxa:							
Hoverfly species:								
Enjoyenhus haltaatus	Marmalade Hoverfly	Т	С	C	С	Flower meadows	All habitats, larvae	1
Episyrphus balteatus	Maimalade Hoverny	1	C	C	C	meadows	eat aphids Farm drains, dung in	1
Fried alia makeestamma	Thick-footed Eristalis	A 1	С	C	С	W-411	water. Roughs,	2
Eristalis arbustorum	Hoverfly	A+	C	C	C	Wetland	gardens Flower meadow,	2
Eristalis nemorum	Narrow-black-striped		_	_	_		woodland rides,	
(Interruptus) (C Sellen)	Eristalis Hoverfly Common Striped-thorax	A+	С	С	С	Wetland	hedge Wetlands, ranging	1
Helophilus pendulus	Hoverfly (third black tibia)	A+	C	C	C	Wetland	far for pollen	1
Melanostoma mellinum	Narrowly-dusted Orange- clubbed Hoverfly	W+	C	C	С	Wetland	Grasslands esp moorland flushes	4
	Broadly-dusted Orange-					Wood	Grassland, scrub,	
Melanostoma scalare	clubbed Hoverfly	T	C	C	С	edge	wood rides.	2
Melanostoma	unidentified females only					Wood	Waadland adaa tuasa	
Platycheirus scutatus group (female)	Female hoverfly (1 of 3/4 species)	T	C/L	C/L	L	Wood edge	Woodland edge trees & flowers	1
,	******						Gardens, roughs,	
Scaeva pyrastri	White-clubbed Hoverfly	T	C/L	C/L	С	Roughs	meadows Mobile species.	1
	Bi-width-process	_			_	Flower	Larvae eat ground	
Sphaerophoria scripta	Spaerophoria Hoverfly	T	C/L	C/L	С	meadows	level aphids	2
Sphaerophoria (females)		T				Wood	Larvae eat Aphids Garden, hedge,	2
Syrphus ribesii	Hoverfly (yellow femur)	T	C	C	C	edge	wood, roughs, wastes	3
Soldierfly & allies specie	es:							
							Damp, less improved	
Haematodocha pluvialis	Notch-horned Cleg	T	C	C	С	Roughs	countryside with mammals	1
Stratiomyidae	Aquatic/Marsh larva	A+				Wetland	Wetlands	1
Cranefly species:	•							
	Large Stripe-winged		٠ــ	_	_		Bog, moors, wet	
Pedicia rivosa	Cranefly Common Long-palped	A+	C/L	L	L	Wetland	woods	1
Tipula paludosa	Cranefly	W+	C	C	C	Roughs	Damp grassland	8
other Nematocera specie	es:							
Cular niniana	Mosquito	Λ	C/L	C/L	С	Wetland	Wetlands and water butts	1
Culex pipiens	Mosquito	A+	C/L	C/L	C	wenana	Dutts	1

Culicidae (unidentifiable)	Mosquito	A+				Wetland	Wetlands and water butts	
Ceratopogonidae (adults)	Biting Midges							3
Ceratopogonidae (Bezzia larvae) Chironomidae (large	Biting Midges	A+				Wetland	Wetlands	
adults) Chironomidae (tiny	Non-biting Midges	A+				Wetland	Ponds/ditches	3
adults) Chironomidae (red	Non-biting Midges Non-biting Midges	A+				Wetland	Ponds/ditches	5
larvae)	(bloodworm)	A+				Wetland Wood	Wetlands	
Mycetophilidae	Fungus Gnats	T				edge	Fungi, mycelium, nests, tall, shady veg Mainly wet habitats.	1
Sciaridae	Black Fungus Gnats	W+				Wetland	Multi-strategy Larvae found in	4
Sylvicola cinctus	Common Window Gnat	T	C/L	C/L	C	Roughs	decaying matter Associated with	1
Sylvicola punctatus	Spotted Window Gnat	T	C/L	VL	C	Pasture	cattle dung Rotting organics;	1
Scatopsidae	Dung Midges	Т				Pasture	marshes, open habitats	1
Scatopstate	Gall Midges (3 main	1				1 asture	Rotting organics; galls/mines;	1
Cecidomyiidae	groups exist)	T					predatory	4
Dixella autumnalis	Meniscus Midge	A+	C/L	NC	L	Wetland	Swamps at the edges of wetlands	1
Dixidae	Unidentified larvae	A+				Wetland		
Simulium cryophilum (larvae) Simulium	Blackfly	A+	C/L	NC	NC	Wetland	Running water; nectar or blood	1
erythrocephalum (larvae)	Blackfly	A+	L	NC	NC	Wetland	Running water; nectar or blood	1
Simuliidae	Blackflies	A+				Wetland	Running water; nectar or blood Larvae in water;	
Psychodidae	Moth Flies	A+				Wetland	damp woods, marshes	1
other Brachycera Fly taxa:								
Elgiva solicita	Brown S-veined Snail- killing Fly	W	C/L	C/L	C/L	Wetland	Ponds and ditches with snails Snails: Grassland,	2
Limnia unguicornis	Stripe-backed Snail-killer	T	C/L	VL	L	Roughs	wetland, dunes, brownfield Roughs, wetlands,	1
Tetanocera elata	Field Buff Snail-killing Fly	T	C/L	L	C	Roughs	heaths, wood edge, dunes	1
Dolichopidae (females only found)	Long-legged Flies (females only found)							
Bicellaria vana	Dance Fly	Т	C/L	L	C/L	Wood edge	Woods, roughs, wastes, gardens	1
Platypalpus longicornis	Long-antennaed Dance Fly	T	C/L	NC	C/L	Wood edge	Tall herb and scrub mostly	1
Lonchoptera lutea	Yellow Spear-winged Fly	T	C	С	C	Roughs	Leaf litter; nectar; open habitats	6
Phoridae	Scuttle Flies	T	Č	Č	C	reoughs	Multiple strategies	2
Pipunculus campestris	Striped Big-headed Fly	Т	C/L	NC	L	Wood edge	Brambles on wood edges	1
Pipunculus thomsoni (lenis)	Banded-legged Big-headed Fly	T	L	NC	NC	Wood edge	Brambles on wood edges	1
Acalypterate Fly taxa:	119	•	L	1,0	1,0	cago	cages	•
Calliopum elisae	Remarkable Black Lauxanid	W	L	VL	VL	Wetland	Fens, pond edges, marshy streamsides	1
Meiosimyza sp								1
Minettia fasciata group	Grey-fronted Striped Lauxanid Fly	T	L		L	Wood edge	Open woods, shrubs, hedges	1
Geomyza balachowskyi	Pliers Geomyza Fly	T	C/L	VL	L	Roughs	Mainly grasslands	3
Geomyza hackmani	Archway Geomyza Fly Round-tipped Geomyza	W	VL	NC	VL	Wetland	Wetlands and marsh Grasslands, woods,	1
Geomyza tripunctata	Fly	T	\mathbf{C}	C/L	C	Roughs	cereal fields	1

Opomyza germinationis	Marked-wing Spotted Red Cereal Fly	T	C	C/L	C	Roughs	Moist habitats, grass, leaf litter Unmanaged	3
Opomyza petrei	Marked-wing Striped Red Cereal Fly	T	C	C/L	C	Roughs	grassland, roughs, wastes	7
Tephritis vespertina	Autumn Hawkbit Gall Fly	Т	C/L	VL	C/L	Flower meadows	Autumn Hawkbit and Cat's-ear buds	1
Sepsis cynipsea	Ensign Fly with two humps on tibia	Т	С	C/L	С	Pasture	Tall veg. Larvae in cow dung	1
Sepsis violacea	Ensign Fly with one-spined prominence	T	C	VL	C	Pasture	Cow, horse, pig, chicken dung	1
Sepsis sp	female only	T	C	VL	C	Pasture	Dung	1
	•	T				1 about 5	Genus linked to	1
Themira sp Drosophilidae	female only Fruit Flies	T					droppings	1
Ephydridae	Shore Fly	W				Wetland	Wetland	6
Thaumatomyia & c	Yellow Swarming Grass Fly (Chloropidae) Triangular-head mark	T				Roughs	Permanent grasslands	1
Chloropidae	minute yellow and brown flies	T					Multiple strategies Larvae in rotting	5
Sphaeroceridae	Lesser Dung Fly	T				Roughs	organics	2
Calypterate Fly taxa:						Flower	Coverate mellon	
Scathophaga stercoraria	Yellow Dung Fly	T	C	C/L	C	meadows	Cow pats, pollen, predators Rotting organics; Esp	6
Fannidae	Lesser House Flies	T				Flower	in or near woods Cattle, flowers,	1
Musca autumnalis	Face Fly	T	C	L	L	meadows	larvae in cattle dung	1
Muscidae	House Flies	T					Multiple strategies Parasitic on	1
Phryxe nemea	Tachinid	C/L	C/L	VL	L	Roughs	Lepidoptera larvae Larvae parasitic on	1
Tachinidae (other)	Bristly Parasitic Flies	T					invertebrates	4
Calyptrate misc								1
THYSANOPTERA:	THUNDERFLIES: taxa:					Flower		
Thrip	Brown (winged) Thrip	T	?	?	?	meadows Flower	Flowers/grasses	5
Thrip	Yellow (winged) Thrip	T	?	?	?	meadows	Flowers/grasses	2
STREPSIPTERA:							Marshes with	
Elenchus tenuicornis?	Leafhopper Parasite	W		NC	NC	Wetland		2
COLLEMBOLA:	SPRINGTAILS: species:						Surface debris, low	
Deuterosminthurus (yellov	w)	T	C	NC	VL	Roughs	vegetation	2
Dicyrtoma fusca	Purple Squat Springtail	T	CW WC	VL	L	Roughs	Surface debris, low vegetation Surface debris, low	1
Dicyrtomina ornata	Patterned Squat Springtail Blue-masted Yellow Squat	T	W	VL	L	Roughs	vegetation Surface debris, low	4
Dicyrtomina saundersi	Springtail	T	VC	VL	L	Roughs	vegetation	2
Sminthurinus aureus	Squat Grey yellow Springtail	T	CW	NC		Rough	Wet & dry leaf litter & low vegetation	3
	Springtan					Rough	Drier than above	1
Sminthurinus elegans Heterosminthurus	Elegant Squat Springtail	T	VCW	NC		2	Damp surface debris,	
	•	T T	VCW MC	NC VL	NC	Roughs	Damp surface debris, low vegetation	3
Heterosminthurus insignis Sminthurus viridis	Elegant Squat Springtail Yellow Least Squat				NC VL		The second secon	3 7
Heterosminthurus insignis	Elegant Squat Springtail Yellow Least Squat Springtail	Т	MC	VL		Roughs	low vegetation Grasses and shrubs Wet habitats	
Heterosminthurus insignis Sminthurus viridis Isotomurus graminis	Elegant Squat Springtail Yellow Least Squat Springtail Clover Springtail	T T	MC VCW	VL NC	VL	Roughs Roughs	low vegetation Grasses and shrubs Wet habitats Damp surface debris, low vegetation	7
Heterosminthurus insignis Sminthurus viridis Isotomurus graminis (prasinus)	Elegant Squat Springtail Yellow Least Squat Springtail Clover Springtail Greenish Springtail	T T W	MC VCW C?	VL NC NC	VL L	Roughs Roughs Wetland	low vegetation Grasses and shrubs Wet habitats Damp surface debris, low vegetation Stream edges, flood debris etc	7
Heterosminthurus insignis Sminthurus viridis Isotomurus graminis (prasinus) Isotomurus palustris	Elegant Squat Springtail Yellow Least Squat Springtail Clover Springtail Greenish Springtail Patterned Springtail	T T W	MC VCW C? VC	VL NC NC	VL L L	Roughs Roughs Wetland	low vegetation Grasses and shrubs Wet habitats Damp surface debris, low vegetation Stream edges, flood	7 1 1

	Dark-headed Patterned						Surface debris, low	
Orchesella cincta	Springtail	T	VC	C	C	Roughs	vegetation	1
	Two-lined Patterned						Surface debris, low	
Entomobrya nivalis	Springtail	T	VCW	L	L	Roughs	vegetation	3
ř	1 0					C	Surface debris, low	
Pogonognathellus	Coil-antennaed Yellow						vegetation, marsh,	
longicornis	Springtail	$\mathbf{W}+$	VCW	C	C	Wetland	garden	2

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. 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.

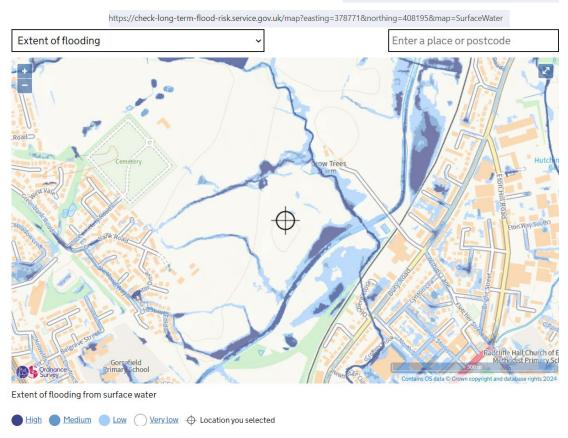
Na-species are nationally scarce and have been recorded in 16-30 ten kilometre squares in Great Britain;

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



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