

**AN INVERTEBRATE SURVEY**

**OF**

**LAND BESIDE**

**PRINCES PARADE,**

**HYTHER,**

**KENT**

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**August 2016**

## **INTRODUCTION**

The survey brief was to carry out a baseline invertebrate survey of the site.

## **METHODOLOGY**

Because it is impracticable to survey all the potential invertebrates within any given site, only specific groups of species were examined during fieldwork. These groups are sufficiently well known as to allow meaningful comparisons to be made with other sites, both locally and nationally. They are also important as indicators of the quality of a site and the habitats present (see Brooks 1993).

Groups covered during the survey were;

- Mollusca (slugs and snails)
- Arachnida (spiders, harvestmen & pseudoscorpions)
- Isopoda (woodlice)
- Thysanura (bristletails)
- Ephemeroptera (mayflies)
- Odonata (dragonflies & damselflies)
- Plecoptera (stoneflies)
- Orthoptera (grasshoppers & crickets)
- Dictyoptera (cockroaches)
- Dermaptera (earwigs)
- Hemiptera-Heteroptera (true-bugs)
- Hemiptera-Homoptera (hoppers)
- Neuroptera (lace-wings)
- Mecoptera (scorpion-flies)
- Lepidoptera (butterflies & moths)
- Trichoptera (caddis flies)
- Diptera (true flies)
- Aculeate Hymenoptera (ants, bees & wasps)
- Coleoptera (beetles)

The main emphasis of the survey was to find as many rare and notable species as possible within the reviewed groups.

The site was visited on the following dates: 17<sup>th</sup> and 26<sup>th</sup> May, and 27<sup>th</sup> July 2016

### **Terrestrial sampling**

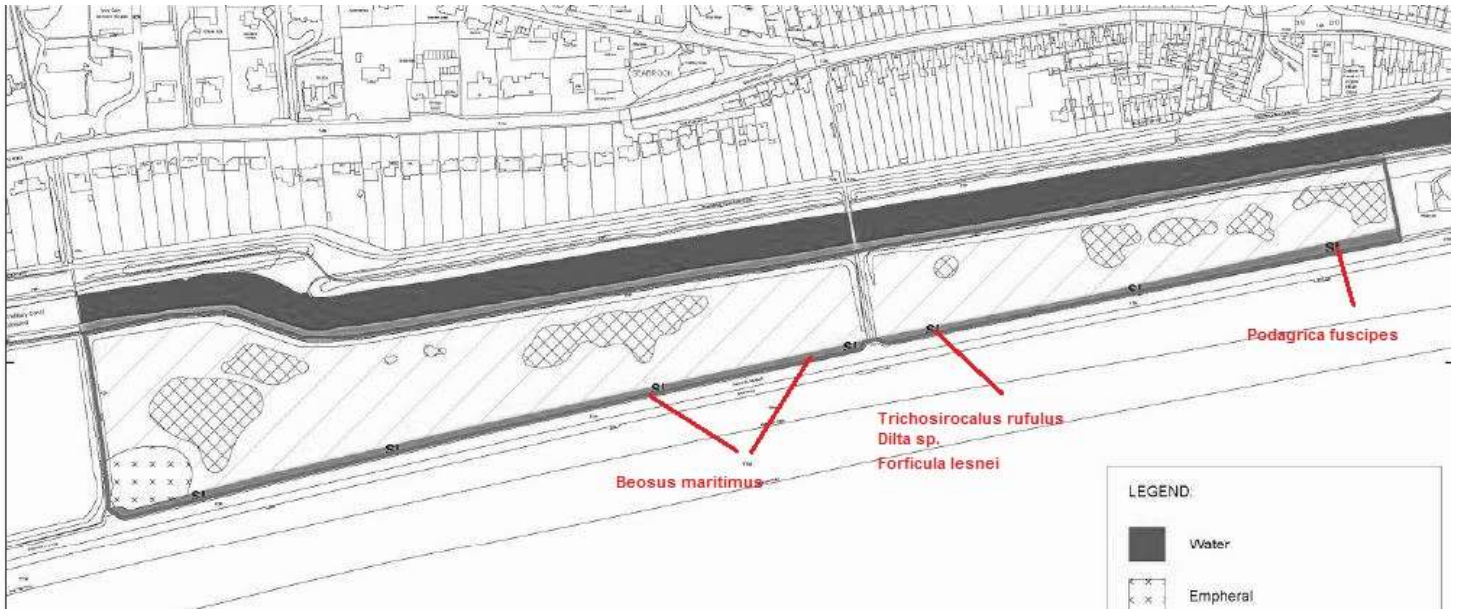
Standard field techniques were employed to sample the invertebrate fauna across the site: These included sweep netting, use of a beating tray for tree foliage. Grubbing, sieve and sort etc.

### **Wetland sampling**

A 0.5mm GB nets pond net was employed to sample the canal for invertebrates.

## RESULTS

The invertebrate species recorded are listed in Appendix 2. The distribution of rare and notable taxa is shown on fig 1. In all, this survey found 226 taxa. The status definitions for nationally notable species are given in Appendix 2. The Nationally Notable species are listed below: -



### NATIONALLY NOTABLE SPECIES

#### DERMAPTERA

***Forficula lesnei*** – Lesnei’s Earwig. (Nationally Scarce B). Smaller and more reddish than the ubiquitous common earwig, and with no wings. This species is associated with open warm sunny hedgerows and bramble patches, it is local in southern England and Wales.



#### CHRYSOMELIDAE (leaf beetles)

***Podagrira fuscipes***. (Nationally Scarce A). A distinctive blue and red flea beetle with black legs which feeds on mallow. Local in southern England.



## **CURCULIONIDAE (weevils)**

### ***Trichosirocalus dawsoni*** (Nationally Scarce A)

A small patterned weevil associated with plantains. Very local in South East England. Found on edge of path along promenade.

## **HABITAT ASSESSMENT**

The herb rich strip alongside the road / promenade supported the nationally scarce weevil *Trichosirocalus rufulus*, and other local species included the Bristletail *Dilta* species and lygaeid bug *Beosus maritimus*, and the leaf beetle *Chrysolina banksi*.

Much of the higher ground and north slope is dominated by dense nettle beds which were species poor.

The canal side is quite diverse and the canal itself supports important species including the Hairy Dragonfly *Brachytron pratense*.

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**APPENDIX 1. SPECIES LIST FOR 2016**

	Family	Species	English name		Scrub / tall herb areas	open grassy areas	canal
Mollusca	Discidae	<i>Discus rotundatus</i>	Rounded snail	common	1	1	
Mollusca	Bithyniidae	<i>Bithynia tentaculata</i>	Common Bithynia	common			1
Mollusca	Lymnaeidae	<i>Lymnaea peregra</i>	wandering snail	common			1
Mollusca	Planorbidae	<i>Planorbis planorbis</i>	Keeled ramshorn	common			1
Mollusca	Agriolimacidae	<i>Deroceras reticulatum</i>	Field slug	common		1	
Mollusca	Clausidae	<i>Clausilia bidentata</i>	common door snail	common	1		
Mollusca	Helicidae	<i>Cernuella virgata</i>	striped snail	common	1	1	
Mollusca	Helicidae	<i>Monacha cantiana</i>	Kentish snail	common	1	1	
Mollusca	Helicidae	<i>Cepaea hortensis</i>	Whie-lipped snail	common	1	1	
Mollusca	Helicidae	<i>Cornu aspersum</i>	Garden snail	common	1	1	
Mollusca	Helicidae	<i>Helicella itala</i>	Heath Snail	local		1	
Amphipoda	Gammaridae	<i>Gammarus pulex</i>	water shrimp	common			1
Chilopoda	Lithobiidae	<i>Lithobius forficatus</i>	a centipede	common			
Isopoda	Oniscidae	<i>Oniscus asellus</i>	a woodlouse	common	1		
Isopoda	Philosciidae	<i>Philoscia muscorum</i>	a woodlouse	common	1	1	
Isopoda	Armadillidae	<i>Armadillidium vulgare</i>	a pill woodlouse	common	1	1	
Isopoda	Porcellionidae	<i>Porcellio scaber</i>	a woodlouse	common	1	1	
Araneae	Theridiidae	<i>Neottiura bimaculata</i>	a comb-footed spider	common	1		
Araneae	Theridiidae	<i>Paidiscura pallens</i>	a comb-footed spider	common	1		
Araneae	Theridiidae	<i>Platnickia tinctum</i>	a comb-footed spider	common	1		
Araneae	Theridiidae	<i>Enoplognatha ovata</i>	a comb-footed spider	common	1	1	
Araneae	Linyphiidae	<i>Erigone atra</i>	a money spider	common		1	
Araneae	Linyphiidae	<i>Linyphia triangularis</i>	a money spider	common	1		
Araneae	Tetragnathidae	<i>Tetragnatha extensa</i>	a long-jawed orb spider	common	1		1
Araneae	Tetragnathidae	<i>Tetragnatha montana</i>	a long-jawed orb spider	common	1		
Araneae	Tetragnathidae	<i>Metallina mengei</i>	a long-jawed orb spider	common	1		
Araneae	Tetragnathidae	<i>Metallina segmentata</i>	a long-jawed orb spider	common	1	1	
Araneae	Araneidae	<i>Araneus diadematus</i>	common garden spider	Common	1	1	
Araneae	Araneidae	<i>Larinoides sclopetarius</i>	Bridge spider	local			1
Araneae	Araneidae	<i>Nuctenea umbratica</i>	an orb weaver	common	1		
Araneae	Lycosidae	<i>Pirata piraticus</i>	a wolf spider	common			1
Araneae	Agelenidae	<i>Tegenaria sp</i>	a House spider	local		1	
Araneae	Dysderidae	<i>Dysdera crocata</i>	woodlouse spider	local		1	
Araneae	Amaurobiidae	<i>Amaurobius ferox</i>	a lace-webbed spider	common		1	
Araneae	Clubionidae	<i>Clubiona brevipes</i>	a foliage spider	common	1		
Araneae	Philodromidae	<i>Philodromus dispar</i>	a running crab spider	common	1		
Araneae	Philodromidae	<i>Philodromus cespitum</i>	a running crab spider	common	1		

Araneae	Thomisidae	Xysticus cristatus	a crab spider	common	1	1	
Araneae	Thomisidae	Ozyptila simplex	a crab spider	local		1	
Araneae	Salticidae	Heliophanus flavipes	a jumping spider	common		1	
Araneae	Salticidae	Euophrys frontalis	a jumping spider	common		1	
Opiliones	Phalangidae	Dicranopalpus ramosus	a harvestman	common	1		
Opiliones	Phalangidae	Phalangium opilio	a harvestman	common		1	
Thysanura	Machilidae	Dilta hibernica/littoralis	a bristletail	local		1	
Odonata	Coenagriidae	Pyrrhosoma nymphula	Large Red Damselfly	common			1
Odonata	Coenagriidae	Enallagma cyathigerum	Common-blue damselfly	common			1
Odonata	Coenagriidae	Coenagrion puella	Azure damselfly	common			1
Odonata	Coenagriidae	Ischnura elegans	blue tailed damselfly	common			1
Odonata	Aeshnidae	Brachytron pratense	Hairy dragonfly	local			1
Odonata	Aeshnidae	Aeshna mixta	Migrant Hawker	local			1
Odonata	Aeshnidae	Aeshna cyanea	Southern Hawker	common			1
Odonata	Aeshnidae	Aeshna grandis	Brown Hawker	common			1
Odonata	Libellulidae	Sympetrum striolatum	common darter	common			1
Orthoptera	Tettigoniidae	Pholidoptera griseoptera	Dark Bush-cricket	common	1	1	
Orthoptera	Tettigoniidae	Metrioptera roeselii	Roesel's Bush-cricket	common	1		
Orthoptera	Tettigoniidae	Conocephalus discolor	Long-winged Conehead	common	1		
Orthoptera	Tettigoniidae	Leptophyes punctatissima	Speckled Bush-cricket	common	1		
Orthoptera	Acrididae	Chorthippus brunneus	Field Grasshopper	common		1	
Dermoptera	Forficulidae	Forficula auricularia	common earwig	common	1	1	
Dermoptera	Forficulidae	Forficula lesnei	Lesnei's earwig	Notable B		1	
Ephemeroptera	Baetidae	Baetis rhodani	a mayfly	common			1
Heteroptera	Nepidae	Nepa cinerea	Water scorpion	common			1
Heteroptera	Hydrometridae	Hydrometra stagnorum	Water Measurer	common			1
Heteroptera	Veliidae	Microvelia reticulata	minute Water Cricket	common			1
Heteroptera	Notonectidae	Notonecta maculata	a water boatman	local			1
Heteroptera	Gerridae	Gerris odontogaster	toothed pondskater	common			1
Heteroptera	Tingidae	Physatocheila dumetorum	a lace	common	1		
Heteroptera	Tingidae	Tingis ampliata	thistle lacebug	common	1		
Heteroptera	Miridae	Deraeocoris ruber	a plantbug	common	1	1	
Heteroptera	Miridae	Plagiognathus arbustorum	a plantbug	common	1	1	
Heteroptera	Miridae	Plagiognathus chrysanthemii	a plantbug	common	1	1	
Heteroptera	Miridae	Dicyphus epilobii	a plantbug	common	1	1	
Heteroptera	Miridae	Heterotoma planicornis	a plantbug	common	1	1	
Heteroptera	Miridae	Orthotylus marginalis	Sallow mirid	common	1		
Heteroptera	Miridae	Liocoris tripustulatus	a plantbug	common	1		
Heteroptera	Miridae	Orthops campestris	a plantbug	common	1	1	
Heteroptera	Miridae	Notostira elongata	a grass bug	common	1		
Heteroptera	Miridae	Stenodema calcarata	a grass bug	common	1		
Heteroptera	Miridae	Tuponia mixticolor	Tamarisk plantbug	local	1		
Heteroptera	Miridae	Tuponia brevisrostris	Tamarisk plantbug	local	1		
Heteroptera	Nabidae	Himacerus mirmicoides	Ant damselbug	common	1	1	
Heteroptera	Nabidae	Nabicula lineatus	reed damselbug	common			1
Heteroptera	Anthocoridae	Anthocoris nemorum	an anthocorid bug	common	1		
Heteroptera	Anthocoridae	Orius majusculus	an anthocorid bug	common	1		
Heteroptera	Lygaeidae	Kleidocerys resedae	a seed bug	common			
Heteroptera	Lygaeidae	Ischnodemus sabuleti	European chinch bug	common	1		
Heteroptera	Lygaeidae	Heterogaster urticae	Nettle ground bug	common	1		
Heteroptera	Lygaeidae	Scolopostethus thomsoni	a ground bug	common	1		
Heteroptera	Lygaeidae	Beosus maritimus	a ground bug	local		1	

Heteroptera	Cydnidae	Sehirus bicolor	Pied shield bug	common	1		
Heteroptera	Pentatomidae	Podops inuncta	European turtle bug	common	1	1	
Heteroptera	Pentatomidae	Eysarcoris fabricii	a shield bug	local	1		
Homoptera	Cercopidae	Aphrophora salicina	a froghopper	local	1		
Homoptera	Cercopidae	Philaenus spumarius	Common Froghopper	common	1		
Homoptera	Cicadellidae	Opsius stactogalus	tamarisk hopper	local	1		
Homoptera	Cicadellidae	Eupteryx aurata	a hopper	common	1		
Homoptera	Cicadellidae	Eupteryx stachydearum	a hopper	common		1	
Homoptera	Cicadellidae	Eupteryx urticae	a hopper	common		1	
Homoptera	Psyllidae	Psylla alni	a jumping plant louse	common	1		
Homoptera	Psyllidae	Trioza urticae	a jumping plant louse	common	1	1	
Neuroptera	Chrysopidae	Chrysoperla carnea	a green lacewing	common		1	
Neuroptera	Sialidae	Sialis lutaria	an alder fly	common			1
Neuroptera	Sisyridae	Sisyra fuscata	an sponge fly	common			1
Lepidoptera	Adelidae	Adella reamurella	a micro-moth	common	1		
Lepidoptera	Nepticulidae	Stigmella aurella	a micro-moth	common	1		
Lepidoptera	Choreutidae	Anthophila fabriciana	a micro-moth	common	1		
Lepidoptera	Glyphipterigidae	Glyphipterix simpliciella	Cocksfoot moth	common	1		
Lepidoptera	Pyralidae	Nomophila noctuella	Rush Veneer	common	1		
Lepidoptera	Pyralidae	Pleuroptya ruralis	Mother of Pearl	common	1		
Lepidoptera	Lymantridae	Orgyia antiqua	Vapourer	common	1		
Lepidoptera	Pieridae	Anthocharis cardamines	Orange Tip	common	1	1	
Lepidoptera	Pieridae	Pieris rapae	Small white	common	1	1	
Lepidoptera	Lycaenidae	Polyommatus icarus	Common Blue	common		1	
Lepidoptera	Nymphalidae	Vanessa atalanta	Red Admiral	common	1		
Lepidoptera	Nymphalidae	Aglais urticae	Small Tortoiseshell	common	1	1	
Lepidoptera	Nymphalidae	Inachis io	Peacock	common	1	1	
Lepidoptera	Satyridae	Pyronia tithonus	Gatekeeper	common	1	1	
Lepidoptera	Satyridae	Maniola jurtina	Meadow Brown	common	1	1	
Lepidoptera	Erebidae	Eilema lurideola	Common Footman	common	1		
Lepidoptera	Erebidae	Xanthorhoe montanata	Silver ground carpet	common	1		
Lepidoptera	Geometridae	Eupithecia ultimaria	Channel Islands Pug	local	1		
Lepidoptera	Arctiidae	Tyria jacobaeae	Cinnabar	common	1		
Lepidoptera	Noctuidae	Autographa gamma	Silver Y	common	1	1	
Diptera	Rhagionidae	Chrysopilus cristatus	Black snipefly	common	1		
Diptera	Stratiomyidae	Beris chalybata	A soldierfly	common	1		
Diptera	Stratiomyidae	Chloromyia formosa	Broad centurion	common	1		
Diptera	Stratiomyidae	Pachygaster atra	A soldierfly	common	1		
Diptera	Chironomidae	Demeijerea rufipes	a chironomid fly	common			1
Diptera	Syrphidae	Episyrphus balteatus	marmalade hoverfly	common	1	1	
Diptera	Syrphidae	Eristalis pertinax	a dronefly	common	1		
Diptera	Syrphidae	Eristalis tenax	a dronefly	common	1	1	
Diptera	Syrphidae	Eupeodes corollae	a hoverfly	common	1	1	
Diptera	Syrphidae	Helophilus pendulus	a hoverfly	common	1	1	1
Diptera	Syrphidae	Scaeva pyrastris	a hoverfly	common	1	1	
Diptera	Syrphidae	Sphaerophoria scripta	a hoverfly	common		1	
Diptera	Syrphidae	Syrpita pipiens	a hoverfly	common	1		
Diptera	Syrphidae	Syrphus ribesii	a hoverfly	common		1	
Diptera	Calliphoridae	Lucillia caesar	greenbottle	common	1		
Diptera	Sarcophagidae	Nyctia halterata	a sarcophagid fly	common		1	
Hymenoptera	Tenthredinidae	Servilia serva	a sawfly	common		1	
Hymenoptera	Formicidae	Myrmica scabrinodis	An ant	common		1	

Hymenoptera	Formicidae	Formica cunicularia	an ant	local		1	
Hymenoptera	Formicidae	Myrmecina graminicola	an ant	local		1	
Hymenoptera	Formicidae	Lasius flavus	yellow meadow ant	common		1	
Hymenoptera	Formicidae	Lasius niger s. s.	an ant	common		1	
Hymenoptera	Vespidae	Vespula vulgaris	Common wasp	common	1	1	
Hymenoptera	Andrenidae	Andrena haemorrhoa	a solitary bee	common	1		
Hymenoptera	Halictidae	Lasioglossum calceatum	a solitary bee	common	1		
Hymenoptera	Halictidae	Lasioglossum villosulum	a solitary bee	common	1		
Hymenoptera	Megachilidae	Megachile willughbiella	a solitary bee	common	1		
Hymenoptera	Anthophoridae	Nomada flava	a wasp bee	common		1	
Hymenoptera	Apidae	Bombus lapidarius	a bumblebee	common	1	1	
Hymenoptera	Apidae	Bombus lucorum agg	a bumblebee	common	1	1	
Hymenoptera	Apidae	Bombus pascuorum	a bumblebee	common	1	1	
Hymenoptera	Apidae	Bombus pratorum	a bumblebee	common	1		
Hymenoptera	Apidae	Bombus terrestris	a bumblebee	common	1	1	
Hymenoptera	Apidae	Apis mellifera	Hive bee	Domesticated	1	1	
Coleoptera	Carabidae	Nebria brevicollis	a ground beetle	common	1		
Coleoptera	Carabidae	Amara aenea	common sun beetle	common		1	
Coleoptera	Carabidae	Harpalus rubripes	a ground beetle	local		1	
Coleoptera	Carabidae	Harpalus affinis	a ground beetle	common		1	
Coleoptera	Carabidae	Demetrius atricapillus	a ground beetle	common	1		
Coleoptera	Carabidae	Paradromius linearis	a ground beetle	common		1	
Coleoptera	Carabidae	Syntomus foveatus	a ground beetle	common		1	
Coleoptera	Noteridae	Noterus clavicornis	the larger noterus	common			1
Coleoptera	Halipidae	Halipus lineatocollis	a halipid beetle	common			1
Coleoptera	Helophoridae	Helophorus brevipalpis	a water beetle	common			1
Coleoptera	Hydrophilidae	Anacaena limbata	a water beetle	common			1
Coleoptera	Hydrophilidae	Enochrus testaceus	a water beetle	common			1
Coleoptera	Staphylinidae	Paederus littoralis	a rove beetle	common	1	1	
Coleoptera	Staphylinidae	Drusilla canaliculata	a rove beetle	common		1	
Coleoptera	Staphylinidae	Stenus clavicornis	a camphor beetle	common	1		
Coleoptera	Staphylinidae	Stenus junco	a camphor beetle	common			1
Coleoptera	Cantharidae	Rhagonycha fulva	a soldier beetle	common	1	1	
Coleoptera	Cantharidae	Malthinus flaveolus	a soldier beetle	common	1		
Coleoptera	Scirtidae	Odeles marginata	a marsh beetle	local			1
Coleoptera	Scirtidae	Cyphon coarctatus	a marsh beetle	common		1	
Coleoptera	Melyridae	Corydelphus viridis	a malachite beetle	local	1	1	
Coleoptera	Nitidulidae	Brachyterus glaber	a pollen beetle	common	1	1	
Coleoptera	Nitidulidae	Brachyterus urticae	a pollen beetle	common	1	1	
Coleoptera	Nitidulidae	Meligethes aeneus	a pollen beetle	common	1	1	
Coleoptera	Nitidulidae	Meligethes symphyti	comfrey pollen beetle	local	1	1	
Coleoptera	Phalacridae	Olibrus aeneus	a phalacid beetle	common	1		
Coleoptera	Coccinellidae	Subcoccinella 24-punctata	24-spot ladybird	common		1	
Coleoptera	Coccinellidae	Rhyzobius litura	a ladybird	common		1	
Coleoptera	Coccinellidae	Psyllobora vigintiduopunctata	a ladybird	common	1		
Coleoptera	Coccinellidae	Tytthaspis sedecimpunctata	16-spot ladybird	common	1	1	
Coleoptera	Coccinellidae	Coccinella septempunctata	7-spot ladybird	common	1	1	
Coleoptera	Coccinellidae	Calvia quattuordecimguttata	Cream spot ladybird	common	1		
Coleoptera	Cryptophagidae	Antherophagus pallens	a cryptophagid beetle	local		1	
Coleoptera	Scraptidae	Anaspis maculata	a tumbling flower beetle	common	1		
Coleoptera	Scraptidae	Anaspis regimbarti	a tumbling flower beetle	common	1		
Coleoptera	Scraptidae	Anaspis rufilabris	a tumbling flower beetle	common	1		



Coleoptera	Oedemeridae	Oedemera lurida	an Oedemerid beetle	common	1		
Coleoptera	Oedemeridae	Oedemera nobilis	Thick kneed beetle	common	1	1	
Coleoptera	Cerambycidae	Grammoptera ruficornis	a longhorn beetle	common	1		
Coleoptera	Bruchidae	Bruchus rufimanus	a bean weevil	common	1		
Coleoptera	Chrysomelidae	Chrysolina banksi	a leaf beetle	local		1	
Coleoptera	Chrysomelidae	Phyllotreta atra	a leaf beetle	common	1		
Coleoptera	Chrysomelidae	Phyllotreta nigripes	a flea beetle	common	1		
Coleoptera	Chrysomelidae	Longitarsis melanocephalus	a flea beetle	common			
Coleoptera	Chrysomelidae	Longitarsis parvulus	a flea beetle	common	1		
Coleoptera	Chrysomelidae	Longitarsis rubiginosus	a flea beetle	common	1		
Coleoptera	Chrysomelidae	Podagrica fuscipes	mallow flea beetle	Notable A		1	
Coleoptera	Chrysomelidae	Crepidodera aurata	a flea beetle	common	1		
Coleoptera	Chrysomelidae	Cassida rubiginosa	common tortoise beetle	common	1		
Coleoptera	Rhynchitidae	Neocoenorrhinus aequatus	a weevil	common	1		
Coleoptera	Apionidae	Pseudapion rufirostre	a weevil	common		1	
Coleoptera	Apionidae	Aspidapion aeneum	a weevil	common		1	
Coleoptera	Apionidae	Aspidapion radiolus	a weevil	common		1	
Coleoptera	Apionidae	Malvapion malvae	a weevil	common	1	1	
Coleoptera	Apionidae	Protapion fulvipes	a clover weevil	common	1	1	
Coleoptera	Apionidae	Oxystoma pomonae	a clover weevil	common		1	
Coleoptera	Curculionidae	Otiorhynchus rugostriatus	a weevil	common	1		
Coleoptera	Curculionidae	Sitona hispidulus	a weevil	common		1	
Coleoptera	Curculionidae	Sitona lineatus	a weevil	common	1	1	
Coleoptera	Curculionidae	Hypera plantaginis	a weevil	common		1	
Coleoptera	Curculionidae	Trichosirocalus dawsoni	a weevil	Notable B		1	
Coleoptera	Curculionidae	Trichosirocalus troglodytes	a weevil	common		1	
Coleoptera	Curculionidae	Ceutorhynchus contractus	a weevil	common	1		
Coleoptera	Curculionidae	Ceutorhynchus turbatus	a weevil	local		1	
Coleoptera	Curculionidae	Parathelcus pollinarius	a weevil	common		1	
Coleoptera	Curculionidae	Nedyus quadrimaculatus	a weevil	common	1	1	
Coleoptera	Curculionidae	Tychius meliloti	a weevil	local	1	1	
Coleoptera	Curculionidae	Tychius picirostris	a weevil	common		1	
Coleoptera	Curculionidae	Mecinus pascuorum	a weevil	common		1	

## **APPENDIX 2. STATUS CATEGORIES FOR RARE AND UNCOMMON TAXA**

### **Nationally Scarce Category A - Notable A (Na)**

#### **Definition.**

Taxa which do not fall within **RDB** categories but which are none-the-less uncommon in Great Britain and are thought to occur in 30 or fewer 10 km squares of the National Grid or, for less well recorded groups, within seven or fewer vice-counties.

### **Nationally Scarce Category B - Notable B (Nb)**

#### **Definition.**

Taxa which do not fall within **RDB** categories but which are none-the-less uncommon in Great Britain and are thought to occur in between 31 and 100 10 km squares of the National Grid or, for less well recorded groups, within eight and twenty vice-counties.

### **Nationally Scarce - Notable (N)**

#### **Definition.**

Taxa which do not fall within **RDB** categories but which are none-the-less uncommon in Great Britain and are thought to occur in between 16 to 100 10 km squares of the National Grid. Species within this category are often too poorly known for their status to be more precisely estimated.

### **Local**

#### **Definition**

Species which are not Nationally Notable or rare but which are restricted in distribution. e.g. Species widespread in Southern England but absent from Northern England and Scotland

The species list uses the statuses from the most recent version of Recorder.