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APPENDIX 4.6

INVERTEBRATE SURVEY OF

HAMBLE AIRFIELD

SOUTH HAMPSHIRE

OCTOBER 2021

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# Summary

A survey of terrestrial invertebrates was carried out across the site on the following dates;- 4<sup>th</sup> May, 5<sup>th</sup>, 16<sup>th</sup> June, 16<sup>th</sup> July, 3<sup>rd</sup>, 4<sup>th</sup> 28<sup>th</sup> July, 4<sup>th</sup>, 18<sup>th</sup> August, 12<sup>th</sup>, 15<sup>th</sup> and 21<sup>st</sup> September 2021.

**Species total:** A total of 472 invertebrate taxa were identified of which 22 had conservation statuses. These are listed below;-

Species	Family	Order	Conservation status
<i>Nigma puella</i>	Dictynidae	Araneae	NS
<i>Meioneta simplicitarsis</i>	Linyphiidae	Araneae	NS
<i>Philodromus rufus</i>	Philodromidae	Araneae	pNS
<i>Ballus chalybeius</i>	Salticidae	Araneae	NS
<i>Dryophilus anobioides</i>	Anobiidae	Coleoptera	NR
<i>Cassida prasina</i>	Chrysomelidae	Coleoptera	NS
<i>Mecinus circulator</i>	Curculionidae	Coleoptera	Nb
<i>Mecinus collaris</i>	Curculionidae	Coleoptera	Nb
<i>Polydrusus formosus</i>	Curculionidae	Coleoptera	[Na]
<i>Ectobius lapponicus</i>	Blattellidae	Dictyoptera	NS
<i>Micropeza lateralis</i>	Micropezidae	Diptera	pNS
<i>Cistogaster globosa</i>	Tachinidae	Diptera	[RDB 1] pNS
<i>Gymnosoma rotundatum</i>	Tachinidae	Diptera	RDB 3: PNS
<i>Trypeta zoe</i>	Tephritidae	Diptera	pNS
<i>Berytinus hirticornis</i>	Berytidae	Hemiptera	Nb
<i>Scottianella dalei</i>	Delphacidae	Hemiptera	Nb
<i>Lestiphorus bicinctus</i>	Crabronidae	Hymenoptera	Nb
<i>Smicromyrme rufipes</i>	Mutillidae	Hymenoptera	Nb
<i>Nemobius sylvestris</i>	Gryllidae	Orthoptera	NS

## Section 41 Priority Species - research

<i>Tyria jacobaeae</i>	Erebidae	Lepidoptera	Section 41 Priority Species - research only
<i>Coenonympha pamphilus</i>	Nymphalidae	Lepidoptera	NT;Section 41 Priority Species

## New Vice-county records

*Philodromus rufus*

*Dryophilus anobioides*

## PANTHEON analysis

Three SATS were in favourable condition;- F001 Scrub edge, F003 scrub-heath & moorland and F112 Open short sward.

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## INTRODUCTION

The project brief was to provide baseline records for invertebrates across the site.

## METHODOLOGY AND SITE VISITS

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 specifically for invertebrate surveying on the following dates;- 4<sup>th</sup> May, 5<sup>th</sup>, 16<sup>th</sup> June, 16<sup>th</sup> July, 3<sup>rd</sup>, 4<sup>th</sup> 28<sup>th</sup> July, 4<sup>th</sup>, 18<sup>th</sup> August, 10<sup>th</sup>, 12<sup>th</sup> and 21<sup>st</sup> September 2021

Standard field techniques were employed to sample the invertebrate fauna across the site. These included sweeping vegetation with a wide mouthed sweep net, beating trees and bushes over a beating tray, and grubbing amongst tussocks and key host plant rosettes etc. A battery powered suction sampler was also employed to collect terrestrial species.

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)

## RESULTS

A total of 472 species of invertebrate were recorded. A full species list with UK statuses is given in Appendix 1. Of these, 22 species have a conservation designation: These are summarised in Table 1 (Descriptions of these species and their ecology and distribution are given in appendix 3). IUCN re-evaluated species have their IUCN criteria given followed by their current UK rarity status in brackets. Those species that have not yet been IUCN re-evaluated have their current statuses in square brackets. The definitions for these criteria are given in appendix 2.

**Table 1. list of species with a conservation designation.**

Species	Family	Order	Conservation status
<i>Nigma puella</i>	Dictynidae	Araneae	NS
<i>Agyneta simplicatarsis</i>	Linyphiidae	Araneae	NS
<i>Philodromus rufus</i>	Philodromidae	Araneae	pNS
<i>Ballus chalybeius</i>	Salticidae	Araneae	NS
<i>Dryophilus anobioides</i>	Anobiidae	Coleoptera	NR
<i>Cassida prasina</i>	Chrysomelidae	Coleoptera	NS
<i>Mecinus circulator</i>	Curculionidae	Coleoptera	Nb
<i>Mecinus collaris</i>	Curculionidae	Coleoptera	Nb
<i>Polydrusus formosus</i>	Curculionidae	Coleoptera	[Na]
<i>Ectobius lapponicus</i>	Blattellidae	Dictyoptera	NS
<i>Dorycera graminum</i>	Ulidiidae	Diptera	pNS: Section 41 Priority Species
<i>Micropeza lateralis</i>	Micropezidae	Diptera	pNS
<i>Cistogaster globosa</i>	Tachinidae	Diptera	[RDB 1]
<i>Gymnosoma rotundatum</i>	Tachinidae	Diptera	RDB 3
<i>Trypeta zoe</i>	Tephritidae	Diptera	pNS
<i>Berytinus hirticornis</i>	Berytidae	Hemiptera	Nb
<i>Scottianella dalei</i>	Delphacidae	Hemiptera	Nb
<i>Lestiphorus bicinctus</i>	Crabronidae	Hymenoptera	Nb
<i>Smicromyrme rufipes</i>	Mutillidae	Hymenoptera	Nb
<i>Tyria jacobaeae</i>	Erebidae	Lepidoptera	Section 41 Priority Species - research only
<i>Coenonympha pamphilus</i>	Nymphalidae	Lepidoptera	NT;Section 41 Priority Species
<i>Nemobius sylvestris</i>	Gryllidae	Orthoptera	NS

### UKBAP / SPI (NERC S41) species:

*Tyria jacobaeae* - Cinnabar

*Coenonympha pamphilus*- Small heath

*Dorycera graminum*- Phoenix fly

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## HABITAT ASSESSMENT- USING PANTHEON TO MEASURE SITE QUALITY

There is currently no standard framework for evaluating the invertebrate value of a site as part of Ecological Impact Assessment, however most active invertebrate ecologists have adopted the Pantheon programme to assess sites. Pantheon was developed by Natural England and the Centre for Ecology & Hydrology to analyse invertebrate sample data and assess assemblage data for favourable versus unfavourable condition by SSSI standards. Hence if one or more assemblages are found to be in favourable condition this would indicate that the site is likely to be of significant importance for invertebrates. Further information on Pantheon is available here: <http://www.brc.ac.uk/pantheon/about/pantheon>.

Users import lists of invertebrates (called “samples”) into Pantheon, which then matches the species to the preferred name in the *UK species inventory* (A list of species maintained by the Natural History Museum). Not all macro-invertebrate taxa are included in the database. To date over c13,000 species have been assessed, this being about a quarter of the total macro-invertebrate fauna (estimated at 37,000). It remains limited to those taxa and families where there is enough ecological information to give a fair level of coding accuracy. These include species such as beetles, flies, bugs and hoppers, moths, ants, bees, wasps, spiders and molluscs.

The method for defining species resources was broadly similar to that followed in Natural England Research Report 024 (Webb et. al., 2010).

*‘For each species, a literature search was undertaken. All relevant ecological information was extracted and added to a spreadsheet. This included ‘structural elements of the habitats that the species is generally associated with (e.g. emergent vegetation, seed heads) and/or other environmental factors that it requires, host plant and/or animal species alongside ecological guild of larvae as well as adults where these differed, (e.g. herbivore, carnivore). Only those resources which were considered important to the species in completing its life cycle were included’.*

The assemblage types are labelled in terms that relate to their favoured habitats in order to make them accessible to non-specialists. However, they are actually defined by lists of characteristic species that are generally found together in nature. Two levels are recognised in the classification. Broad assemblage types (BATs) are a comprehensive series of assemblage types that are characterised by more widespread species. They can be expressed in lists from a wide range of sites. Specific assemblage types (SATs) are characterised by ecologically restricted species and are generally only expressed in lists from sites with conservation value. Since 2008 there has also been a third category of assemblage types that cut across this classification. They are mainly defined by lists of

species dependent on a particular environmental resource, such as flowers as a source of pollen and nectar. The assemblage type classification is given below. Textual descriptions of each assemblage type and its habitats have been prepared for incorporation into a web-based database.

**Table 2. Specific assemblage types**

Code	SAT	No. of species	% representation	SQI	Reported condition
F001	scrub edge	25	11	140	Favourable
F003	scrub-heath & moorland	17	5	141	Favourable
F112	open short sward	13	6	146	Favourable
F002	rich flower resource	11	5	100	Unfavourable (11 of 15 species)
A212	bark & sapwood decay	9	2	100	Unfavourable (9 of 19 species)
F111	bare sand & chalk	5	1	100	Unfavourable (5 of 19 species)

Three SATS were in favourable condition;- F001 Scrub edge, F003 scrub-heath & moorland and F112 Open short sward.

## SURVEY LIMITATIONS

The moth fauna is always under-represented when only diurnal surveys are employed. Light trapping surveys with 2-3 MV and actinic Robinson type traps would add hundreds of species of moth and additional night flying species (Ichneumonidae, Coleoptera etc.)

The summer of 2021 was the worst on record for flying invertebrates, the damp cloudy May, was followed by indifferent weather punctuated by brief warm spells. Flower visiting species were extremely scarce with stands of flowers with only the occasional bee or fly present.

## ECOLOGICAL ASSESSMENT

The former airfield is a vast open area but rather limited floristically. There are some small areas with a more acid grassland elements but most of the site is rather dull neutral grassland with extensive bramble stands. Broom is locally dominant and yielded the stilt-legged fly *Micropeza lateralis*, and most significantly the first vice-county records of broom woodworm *Dryophilus anobioides*. Ragwort was super abundant in 2021 largely as the cinnabar moth population crashed, presumably in response to the awful weather in May. As a result the extensive herbivory of its distinctive caterpillars did not occur and it grew and flowered largely unchecked.

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## REFERENCES

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## APPENDICES

**Table 1. Species list for 2021**

Species	Family	Order	Conservation status
<i>Agelena labyrinthica</i>	Agelenidae	Araneae	common
<i>Amaurobius fenestralis</i>	Amaurobiidae	Araneae	common
<i>Agalenatea redii</i>	Araneidae	Araneae	common
<i>Araneus diadematus</i>	Araneidae	Araneae	common
<i>Araneus triguttatus</i>	Araneidae	Araneae	local
<i>Araniella cucurbitina</i>	Araneidae	Araneae	common
<i>Argiope bruennichi</i>	Araneidae	Araneae	local
<i>Gibbaranea gibbosa</i>	Araneidae	Araneae	common
<i>Mangora acalypha</i>	Araneidae	Araneae	common
<i>Neoscona adianta</i>	Araneidae	Araneae	local
<i>Nuctenea umbratica</i>	Araneidae	Araneae	common
<i>Zilla diodia</i>	Araneidae	Araneae	local
<i>Zygiella atrica</i>	Araneidae	Araneae	common
<i>Zygiella x-notata</i>	Araneidae	Araneae	common
<i>Clubiona brevipes</i>	Clubionidae	Araneae	common
<i>Clubiona comta</i>	Clubionidae	Araneae	common
<i>Clubiona diversa</i>	Clubionidae	Araneae	common
<i>Dictyna arundinacea</i>	Dictynidae	Araneae	common
<i>Briggitia latens</i>	Dictynidae	Araneae	local
<i>Dictyna uncinata</i>	Dictynidae	Araneae	common
<i>Nigma puella</i>	Dictynidae	Araneae	NS
<i>Harpactea hombergi</i>	Dysderidae	Araneae	common
<i>Haplodrassus signifer</i>	Gnaphosidae	Araneae	local
<i>Zelotes latreillei</i>	Gnaphosidae	Araneae	common
<i>Cnephalocotes obscurus</i>	Linyphiidae	Araneae	common
<i>Erigone atra</i>	Linyphiidae	Araneae	common
<i>Erigone dentipalpis</i>	Linyphiidae	Araneae	common
<i>Hypomma cornutum</i>	Linyphiidae	Araneae	common
<i>Lepthyphantes minutus</i>	Linyphiidae	Araneae	common
<i>Linyphia triangularis</i>	Linyphiidae	Araneae	common
<i>Agyneta simplicitaris</i>	Linyphiidae	Araneae	NS
<i>Tenuiphantes tenuis</i>	Linyphiidae	Araneae	common
<i>Pardosa nigriceps</i>	Lycosidae	Araneae	common
<i>Pardosa pullata</i>	Lycosidae	Araneae	common
<i>Trochosa terricola</i>	Lycosidae	Araneae	common
<i>Philodromus albidus</i>	Philodromidae	Araneae	common
<i>Philodromus aureolus</i>	Philodromidae	Araneae	common
<i>Philodromus cespitum</i>	Philodromidae	Araneae	common
<i>Philodromus rufus</i>	Philodromidae	Araneae	pNS
<i>Tibellus oblongus</i>	Philodromidae	Araneae	common



<i>Pisaura mirabilis</i>	Pisauridae	Araneae	common
<i>Ballus chalybeius</i>	Salticidae	Araneae	NS
<i>Euophrys frontalis</i>	Salticidae	Araneae	common
<i>Heliophanus cupreus</i>	Salticidae	Araneae	common
<i>Heliophanus flavipes</i>	Salticidae	Araneae	common
<i>Metellina segmentata</i>	Tetragnathidae	Araneae	common
<i>Tetragnatha montana</i>	Tetragnathidae	Araneae	common
<i>Tetragnatha obtusa</i>	Tetragnathidae	Araneae	common
<i>Anelosimus vittatus</i>	Theridiidae	Araneae	common
<i>Enoplognatha ovata</i>	Theridiidae	Araneae	common
<i>Neottiura bimaculata</i>	Theridiidae	Araneae	common
<i>Paidiscura pallens</i>	Theridiidae	Araneae	common
<i>Phylloneta sisyphia</i>	Theridiidae	Araneae	common
<i>Platnickina tinctoria</i>	Theridiidae	Araneae	common
<i>Simitidion simile</i>	Theridiidae	Araneae	local
<i>Theridion varians</i>	Theridiidae	Araneae	common
<i>Misumena vatia</i>	Thomisidae	Araneae	common
<i>Xysticus cristatus</i>	Thomisidae	Araneae	common
<i>Zora spinimana</i>	Zoridae	Araneae	common
<i>Dilta hibernica</i>	Machilidae	Archaeognatha	local
<i>Dryophilus anobioides</i>	Anobiidae	Coleoptera	NR
<i>Ochina ptinoides</i>	Anobiidae	Coleoptera	local
<i>Apion cruentatum</i>	Apionidae	Coleoptera	common
<i>Apion haematodes</i>	Apionidae	Coleoptera	common
<i>Betulapion simile</i>	Apionidae	Coleoptera	common
<i>Ceratapion gibbirostre</i>	Apionidae	Coleoptera	common
<i>Ceratapion onopordi</i>	Apionidae	Coleoptera	common
<i>Exapion ulicis</i>	Apionidae	Coleoptera	common
<i>Ischnopterapion loti</i>	Apionidae	Coleoptera	common
<i>Oxystoma pomonae</i>	Apionidae	Coleoptera	common
<i>Perapion curtirostre</i>	Apionidae	Coleoptera	common
<i>Perapion marchicum</i>	Apionidae	Coleoptera	local
<i>Protapion apricans</i>	Apionidae	Coleoptera	common
<i>Protapion fulvipes</i>	Apionidae	Coleoptera	common
<i>Byturus ochraceus</i>	Byturidae	Coleoptera	common
<i>Cantharis cryptica</i>	Cantharidae	Coleoptera	common
<i>Cantharis flavilabris</i>	Cantharidae	Coleoptera	common
<i>Cantharis rufa</i>	Cantharidae	Coleoptera	common
<i>Cantharis rustica</i>	Cantharidae	Coleoptera	common
<i>Malthinus seriepunctatus</i>	Cantharidae	Coleoptera	common
<i>Rhagonycha fulva</i>	Cantharidae	Coleoptera	common
<i>Rhagonycha lignosa</i>	Cantharidae	Coleoptera	common
<i>Amara aenea</i>	Carabidae	Coleoptera	common
<i>Amara lunicollis</i>	Carabidae	Coleoptera	local
<i>Bembidion lampros</i>	Carabidae	Coleoptera	common

<i>Dromius meridionalis</i>	Carabidae	Coleoptera	common
<i>Dromius quadrimaculatus</i>	Carabidae	Coleoptera	common
<i>Harpalus affinis</i>	Carabidae	Coleoptera	common
<i>Paradromius linearis</i>	Carabidae	Coleoptera	common
<i>Philorhizus melanocephalus</i>	Carabidae	Coleoptera	common
<i>Grammoptera ruficornis</i>	Cerambycidae	Coleoptera	common
<i>Pseudovadonia livida</i>	Cerambycidae	Coleoptera	common
<i>Rutpela maculata</i>	Cerambycidae	Coleoptera	common
<i>Agelastica alni</i>	Chrysomelidae	Coleoptera	common
<i>Bruchidius villosus</i>	Chrysomelidae	Coleoptera	common
<i>Bruchus loti</i>	Chrysomelidae	Coleoptera	common
<i>Bruchus rufimanus</i>	Chrysomelidae	Coleoptera	common
<i>Cassida prasina</i>	Chrysomelidae	Coleoptera	NS
<i>Cassida rubiginosa</i>	Chrysomelidae	Coleoptera	common
<i>Cassida vibex</i>	Chrysomelidae	Coleoptera	common
<i>Chrysolina banksii</i>	Chrysomelidae	Coleoptera	local
<i>Cryptocephalus labiatus</i>	Chrysomelidae	Coleoptera	common
<i>Cryptocephalus moraei</i>	Chrysomelidae	Coleoptera	local
<i>Cryptocephalus pusillus</i>	Chrysomelidae	Coleoptera	common
<i>Gonioctena olivacea</i>	Chrysomelidae	Coleoptera	local
<i>Lochmaea crataegi</i>	Chrysomelidae	Coleoptera	common
<i>Longitarsus dorsalis</i>	Chrysomelidae	Coleoptera	local
<i>Longitarsus flavicornis</i>	Chrysomelidae	Coleoptera	common
<i>Longitarsus pratensis</i>	Chrysomelidae	Coleoptera	common
<i>Neocrepidodera transversa</i>	Chrysomelidae	Coleoptera	common
<i>Psylliodes chrysocephala</i>	Chrysomelidae	Coleoptera	common
<i>Sphaeroderma rubidum</i>	Chrysomelidae	Coleoptera	common
<i>Adalia decempunctata</i>	Coccinellidae	Coleoptera	common
<i>Coccinella septempunctata</i>	Coccinellidae	Coleoptera	common
<i>Exochomus quadripustulatus</i>	Coccinellidae	Coleoptera	common
<i>Harmonia axyridis</i>	Coccinellidae	Coleoptera	common
<i>Nephus redtenbacheri</i>	Coccinellidae	Coleoptera	local
<i>Propylea quattuordecimpunctata</i>	Coccinellidae	Coleoptera	common
<i>Rhyzobius chrysomeloides</i>	Coccinellidae	Coleoptera	common
<i>Rhyzobius litura</i>	Coccinellidae	Coleoptera	common
<i>Scymnus frontalis</i>	Coccinellidae	Coleoptera	local
<i>Subcoccinella vigintiquattuordecimpunctata</i>	Coccinellidae	Coleoptera	common
<i>Tytthaspis sedecimpunctata</i>	Coccinellidae	Coleoptera	common
<i>Micrambe ulicis</i>	Cryptophagidae	Coleoptera	common
<i>Andrion regensteinense</i>	Curculionidae	Coleoptera	common
<i>Anthonomus pomorum</i>	Curculionidae	Coleoptera	common
<i>Barypeithes araneiformis</i>	Curculionidae	Coleoptera	common
<i>Barypeithes pellucidus</i>	Curculionidae	Coleoptera	common
<i>Ceutorhynchus typhae</i>	Curculionidae	Coleoptera	common

<i>Curculio glandium</i>	Curculionidae	Coleoptera	common
<i>Glocianus distinctus</i>	Curculionidae	Coleoptera	common
<i>Hadroplontus litura</i>	Curculionidae	Coleoptera	common
<i>Hypera nigrirostris</i>	Curculionidae	Coleoptera	common
<i>Liophloeus tessellatus f maurus</i>	Curculionidae	Coleoptera	common
<i>Hypera postica</i>	Curculionidae	Coleoptera	common
<i>Mecinus circulatus</i>	Curculionidae	Coleoptera	Nb
<i>Mecinus collaris</i>	Curculionidae	Coleoptera	Nb
<i>Mecinus pascuorum</i>	Curculionidae	Coleoptera	common
<i>Mecinus pyraeter</i>	Curculionidae	Coleoptera	common
<i>Orchestes avellanae</i>	Curculionidae	Coleoptera	common
<i>Orchestes pilosus</i>	Curculionidae	Coleoptera	common
<i>Orchestes signifer</i>	Curculionidae	Coleoptera	common
<i>Phloeotribus rhododactylus</i>	Curculionidae	Coleoptera	common
<i>Phyllobius pomaceus</i>	Curculionidae	Coleoptera	common
<i>Phyllobius pyri</i>	Curculionidae	Coleoptera	common
<i>Phyllobius roboretanus</i>	Curculionidae	Coleoptera	common
<i>Polydrusus formosus</i>	Curculionidae	Coleoptera	[Na]
<i>Rhinoncus castor</i>	Curculionidae	Coleoptera	common
<i>Sitona hispidulus</i>	Curculionidae	Coleoptera	common
<i>Sitona lineatus</i>	Curculionidae	Coleoptera	common
<i>Sitona striatellus</i>	Curculionidae	Coleoptera	common
<i>Strophosoma melanogrammum</i>	Curculionidae	Coleoptera	common
<i>Trachyphloeus angustisetulus</i>	Curculionidae	Coleoptera	local
<i>Trichosirocalus troglodytes</i>	Curculionidae	Coleoptera	common
<i>Tychius picirostris</i>	Curculionidae	Coleoptera	common
<i>Anthrenus verbasci</i>	Dermestidae	Coleoptera	common
<i>Agriotes obscurus</i>	Elateridae	Coleoptera	common
<i>Athous haemorrhoidalis</i>	Elateridae	Coleoptera	common
<i>Cartodere bifasciata</i>	Latridiidae	Coleoptera	common
<i>Corticara gibbosa</i>	Latridiidae	Coleoptera	common
<i>Enicmus transversus</i>	Latridiidae	Coleoptera	common
<i>Cordylepherus viridis</i>	Malachiidae	Coleoptera	common
<i>Malachius bipustulatus</i>	Malachiidae	Coleoptera	common
<i>Eulagius filicornis</i>	Mycetophagidae	Coleoptera	naturalized
<i>Meligethes aeneus</i>	Nitidulidae	Coleoptera	common
<i>Meligethes flavimanus</i>	Nitidulidae	Coleoptera	common
<i>Oedemera lurida</i>	Oedemeridae	Coleoptera	common
<i>Oedemera nobilis</i>	Oedemeridae	Coleoptera	common
<i>Olibrus aeneus</i>	Phalacridae	Coleoptera	common
<i>Olibrus affinis</i>	Phalacridae	Coleoptera	common
<i>Olibrus liquidus</i>	Phalacridae	Coleoptera	local
<i>Deporaus betulae</i>	Rhynchitidae	Coleoptera	common
<i>Hoplia philanthus</i>	Rutelidae	Coleoptera	common
<i>Salpingus planirostris</i>	Salpingidae	Coleoptera	common

<i>Anaspis fasciata</i>	Scraptiidae	Coleoptera	common
<i>Anaspis maculata</i>	Scraptiidae	Coleoptera	common
<i>Amishca analis</i>	Staphylinidae	Coleoptera	common
<i>Amishca decipiens</i>	Staphylinidae	Coleoptera	common
<i>Anotylus rugosus</i>	Staphylinidae	Coleoptera	common
<i>Bisnius fimetarius</i>	Staphylinidae	Coleoptera	common
<i>Drusilla canaliculata</i>	Staphylinidae	Coleoptera	common
<i>Paederus littoralis</i>	Staphylinidae	Coleoptera	common
<i>Stenus brunnipes</i>	Staphylinidae	Coleoptera	common
<i>Stenus clavicornis</i>	Staphylinidae	Coleoptera	common
<i>Stenus ossium</i>	Staphylinidae	Coleoptera	common
<i>Tachinus rufipes</i>	Staphylinidae	Coleoptera	common
<i>Tachyporus dispar</i>	Staphylinidae	Coleoptera	common
<i>Tachyporus hypnorum</i>	Staphylinidae	Coleoptera	common
<i>Xantholinus linearis</i>	Staphylinidae	Coleoptera	common
<i>Lagria hirta</i>	Tenebrionidae	Coleoptera	common
<i>Nalassus laevioctostriatus</i>	Tenebrionidae	Coleoptera	common
<i>Forficula auricularia</i>	Forficulidae	Dermaptera	common
<i>Ectobius lapponicus</i>	Blattellidae	Dictyoptera	NS
<i>Phytomyza ilicis</i>	Agromyzidae	Diptera	common
<i>Chirosia histricina</i>	Anthomyiidae	Diptera	common
<i>Dioctria atricapilla</i>	Asilidae	Diptera	common
<i>Dioctria baumhaueri</i>	Asilidae	Diptera	common
<i>Dioctria rufipes</i>	Asilidae	Diptera	common
<i>Leptogaster cylindrica</i>	Asilidae	Diptera	common
<i>Bibio marci</i>	Bibionidae	Diptera	common
<i>Dilophus febrilis</i>	Bibionidae	Diptera	common
<i>Lucilia sericata</i>	Calliphoridae	Diptera	common
<i>Jaapiella veronicae</i>	Cecidomyiidae	Diptera	common
<i>Lasioptera carophila</i>	Cecidomyiidae	Diptera	common
<i>Lasioptera rubi</i>	Cecidomyiidae	Diptera	common
<i>Dolichopus trivialis</i>	Dolichopodidae	Diptera	common
<i>Fannia canicularis</i>	Fanniidae	Diptera	common
<i>Lipoptena cervi</i>	Hippoboscidae	Diptera	common
<i>Homoneura notata</i>	Lauxaniidae	Diptera	common
<i>Minettia fasciata</i>	Lauxaniidae	Diptera	common
<i>Sapromyza quadripunctata</i>	Lauxaniidae	Diptera	common
<i>Micropeza lateralis</i>	Micropezidae	Diptera	pNS
<i>Morellia aenescens</i>	Muscidae	Diptera	common
<i>Sciara hemerobioides</i>	Sciaridae	Diptera	common
<i>Limnia unguicornis</i>	Sciomyzidae	Diptera	common
<i>Sepsis cynipsea</i>	Sepsidae	Diptera	common
<i>Pachygaster atra</i>	Stratiomyidae	Diptera	common
<i>Cheilosia impressa</i>	Syrphidae	Diptera	common
<i>Chrysogaster solstitialis</i>	Syrphidae	Diptera	common

<i>Chrysotoxum bicinctum</i>	Syrphidae	Diptera	common
<i>Epistrophe grossulariae</i>	Syrphidae	Diptera	common
<i>Episyrphus balteatus</i>	Syrphidae	Diptera	common
<i>Eristalis arbustorum</i>	Syrphidae	Diptera	common
<i>Eristalis pertinax</i>	Syrphidae	Diptera	common
<i>Eristalis tenax</i>	Syrphidae	Diptera	common
<i>Eupeodes corollae</i>	Syrphidae	Diptera	common
<i>Eupeodes latifasciatus</i>	Syrphidae	Diptera	common
<i>Eupeodes luniger</i>	Syrphidae	Diptera	common
<i>Helophilus pendulus</i>	Syrphidae	Diptera	common
<i>Helophilus trivittatus</i>	Syrphidae	Diptera	migrant
<i>Melanostoma mellinum</i>	Syrphidae	Diptera	common
<i>Myathropa florea</i>	Syrphidae	Diptera	common
<i>Platycheirus albimanus</i>	Syrphidae	Diptera	common
<i>Sphaerophoria scripta</i>	Syrphidae	Diptera	common
<i>Syritta pipiens</i>	Syrphidae	Diptera	common
<i>Volucella inanis</i>	Syrphidae	Diptera	local
<i>Xanthogramma pedissequum</i>	Syrphidae	Diptera	common
<i>Xylota segnis</i>	Syrphidae	Diptera	common
<i>Haematopota pluvialis</i>	Tabanidae	Diptera	common
<i>Cistogaster globosa</i>	Tachinidae	Diptera	[RDB 1] pNS
<i>Eriothrix rufomaculata</i>	Tachinidae	Diptera	common
<i>Gymnosoma rotundatum</i>	Tachinidae	Diptera	RDB 3; pNS
<i>Chaetorellia jaceae</i>	Tephritidae	Diptera	common
<i>Tephritis vespertina</i>	Tephritidae	Diptera	common
<i>Trypeta zoe</i>	Tephritidae	Diptera	pNS
<i>Urophora cardui</i>	Tephritidae	Diptera	common
<i>Urophora quadrifasciata</i>	Tephritidae	Diptera	common
<i>Urophora stylata</i>	Tephritidae	Diptera	common
<i>Nephrotoma flavescens</i>	Tipulidae	Diptera	common
<i>Tipula oleracea</i>	Tipulidae	Diptera	common
<i>Tipula paludosa</i>	Tipulidae	Diptera	common
<i>Trichocera regelationis</i>	Trichoceridae	Diptera	common
<i>Elasmostethus interstinctus</i>	Acanthosomatidae	Hemiptera	common
<i>Elasmucha grisea</i>	Acanthosomatidae	Hemiptera	common
<i>Anthocoris confusus</i>	Anthocoridae	Hemiptera	common
<i>Anthocoris nemoralis</i>	Anthocoridae	Hemiptera	common
<i>Anthocoris nemorum</i>	Anthocoridae	Hemiptera	common
<i>Temnostethus pusillus</i>	Anthocoridae	Hemiptera	common
<i>Aphrophora alni</i>	Aphrophoridae	Hemiptera	common
<i>Philaenus spumarius</i>	Aphrophoridae	Hemiptera	common
<i>Aneurus laevis</i>	Aradidae	Hemiptera	common
<i>Berytinus hirticornis</i>	Berytidae	Hemiptera	Nb
<i>Berytinus minor</i>	Berytidae	Hemiptera	common
<i>Alebra albostriella</i>	Cicadellidae	Hemiptera	common

<i>Anoscopus serratulae</i>	Cicadellidae	Hemiptera	local
<i>Aphrodes makarovi</i>	Cicadellidae	Hemiptera	common
<i>Doratura stylata</i>	Cicadellidae	Hemiptera	local
<i>Eurhadina pulchella</i>	Cicadellidae	Hemiptera	common
<i>Iassus lanio</i>	Cicadellidae	Hemiptera	common
<i>Megophthalmus scabripennis</i>	Cicadellidae	Hemiptera	common
<i>Megophthalmus scanicus</i>	Cicadellidae	Hemiptera	local
<i>Oncopsis flavicollis</i>	Cicadellidae	Hemiptera	common
<i>Oncopsis tristis</i>	Cicadellidae	Hemiptera	common
<i>Ribautiana ulmi</i>	Cicadellidae	Hemiptera	common
<i>Tachycixius pilosus</i>	Cixiidae	Hemiptera	common
<i>Coreus marginatus</i>	Coreidae	Hemiptera	common
<i>Coriomeris denticulatus</i>	Coreidae	Hemiptera	common
<i>Ditropis pteridis</i>	Delphacidae	Hemiptera	common
<i>Javesella pellucida</i>	Delphacidae	Hemiptera	common
<i>Scottianella dalei</i>	Delphacidae	Hemiptera	Nb
<i>Stenocranus minutus</i>	Delphacidae	Hemiptera	local
<i>Issus coleoptratus</i>	Issidae	Hemiptera	common
<i>Kleidocerys resedae</i>	Lygaeidae	Hemiptera	common
<i>Peritrechus geniculatus</i>	Lygaeidae	Hemiptera	common
<i>Acetropis gimmerthalii</i>	Miridae	Hemiptera	common
<i>Amblytylus nasutus</i>	Miridae	Hemiptera	common
<i>Asciodema obsoleta</i>	Miridae	Hemiptera	common
<i>Campyloneura virgula</i>	Miridae	Hemiptera	common
<i>Capsus ater</i>	Miridae	Hemiptera	common
<i>Closterotomus norwegicus</i>	Miridae	Hemiptera	common
<i>Cyllecoris histrionius</i>	Miridae	Hemiptera	common
<i>Deraeocoris ruber</i>	Miridae	Hemiptera	common
<i>Deraeocoris lutescens</i>	Miridae	Hemiptera	common
<i>Heterocordylus tibialis</i>	Miridae	Hemiptera	common
<i>Heterotoma planicornis</i>	Miridae	Hemiptera	common
<i>Leptopterna dolabrata</i>	Miridae	Hemiptera	common
<i>Lopus decolor</i>	Miridae	Hemiptera	local
<i>Lygocoris pabulinus</i>	Miridae	Hemiptera	common
<i>Lygus rugulipennis</i>	Miridae	Hemiptera	common
<i>Megalocoleus molliculus</i>	Miridae	Hemiptera	common
<i>Miridius quadrivirgatus</i>	Miridae	Hemiptera	local
<i>Neolygus contaminatus</i>	Miridae	Hemiptera	common
<i>Oncotylus viridiflavus</i>	Miridae	Hemiptera	common
<i>Orthocephalus saltator</i>	Miridae	Hemiptera	local
<i>Orthotylus prasinus</i>	Miridae	Hemiptera	common
<i>Orthotylus adenocarpi</i>	Miridae	Hemiptera	common
<i>Orthotylus virescens</i>	Miridae	Hemiptera	common
<i>Phylus melanocephalus</i>	Miridae	Hemiptera	local
<i>Phytocoris ulmi</i>	Miridae	Hemiptera	common

<i>Phytocoris varipes</i>	Miridae	Hemiptera	common
<i>Pilophorus perplexus</i>	Miridae	Hemiptera	common
<i>Pithanus maerkelii</i>	Miridae	Hemiptera	common
<i>Plagiognathus arbustorum</i>	Miridae	Hemiptera	common
<i>Plagiognathus chrysanthemi</i>	Miridae	Hemiptera	common
<i>Polymerus unifasciatus</i>	Miridae	Hemiptera	local
<i>Psallus perrisi</i>	Miridae	Hemiptera	common
<i>Psallus mollis</i>	Miridae	Hemiptera	local
<i>Psallus varians</i>	Miridae	Hemiptera	common
<i>Stenodema calcarata</i>	Miridae	Hemiptera	common
<i>Stenodema laevigata</i>	Miridae	Hemiptera	common
<i>Stenotus binotatus</i>	Miridae	Hemiptera	common
<i>Himacerus mirmicoides</i>	Nabidae	Hemiptera	common
<i>Himacerus apterus</i>	Nabidae	Hemiptera	common
<i>Nabis flavomarginatus</i>	Nabidae	Hemiptera	common
<i>Nabis rugosus</i>	Nabidae	Hemiptera	common
<i>Aelia acuminata</i>	Pentatomidae	Hemiptera	common
<i>Dolycoris baccarum</i>	Pentatomidae	Hemiptera	common
<i>Palomena prasina</i>	Pentatomidae	Hemiptera	common
<i>Pentatoma rufipes</i>	Pentatomidae	Hemiptera	common
<i>Piezodorus lituratus</i>	Pentatomidae	Hemiptera	common
<i>Podops inuncta</i>	Pentatomidae	Hemiptera	common
<i>Arytaina genistae</i>	Psyllidae	Hemiptera	common
<i>Arytainilla spartiophila</i>	Psyllidae	Hemiptera	common
<i>Myrmus miriformis</i>	Rhopalidae	Hemiptera	common
<i>Rhopalus subrufus</i>	Rhopalidae	Hemiptera	common
<i>Eurygaster testudinaria</i>	Scutelleridae	Hemiptera	common
<i>Acalypta parvula</i>	Tingidae	Hemiptera	local
<i>Derephysia foliacea</i>	Tingidae	Hemiptera	local
<i>Tingis cardui</i>	Tingidae	Hemiptera	common
<i>Andrena haemorrhoa</i>	Andrenidae	Hymenoptera	common
<i>Panurgus calcaratus</i>	Andrenidae	Hymenoptera	common
<i>Apis mellifera</i>	Apidae	Hymenoptera	common
<i>Bombus hypnorum</i>	Apidae	Hymenoptera	common
<i>Bombus lapidarius</i>	Apidae	Hymenoptera	common
<i>Bombus lucorum</i>	Apidae	Hymenoptera	common
<i>Bombus pascuorum</i>	Apidae	Hymenoptera	common
<i>Bombus pratorum</i>	Apidae	Hymenoptera	common
<i>Bombus terrestris</i>	Apidae	Hymenoptera	common
<i>Colletes hederæ</i>	Colletidae	Hymenoptera	common
<i>Astata boops</i>	Crabronidae	Hymenoptera	local
<i>Cerceris rybyensis</i>	Crabronidae	Hymenoptera	common
<i>Ectemnius continuus</i>	Crabronidae	Hymenoptera	common
<i>Lestiphorus bicinctus</i>	Crabronidae	Hymenoptera	Nb
<i>Lindenius panzeri</i>	Crabronidae	Hymenoptera	common

<i>Andricus aries</i>	Cynipidae	Hymenoptera	common
<i>Andricus curvator</i>	Cynipidae	Hymenoptera	common
<i>Andricus foecundatrix</i>	Cynipidae	Hymenoptera	common
<i>Andricus kollari</i>	Cynipidae	Hymenoptera	common
<i>Andricus lignicola</i>	Cynipidae	Hymenoptera	common
<i>Andricus quercuscalicis</i>	Cynipidae	Hymenoptera	common
<i>Biorhiza pallida</i>	Cynipidae	Hymenoptera	common
<i>Diplolepis rosae</i>	Cynipidae	Hymenoptera	common
<i>Neuroterus albipes</i>	Cynipidae	Hymenoptera	common
<i>Neuroterus numismalis</i>	Cynipidae	Hymenoptera	common
<i>Neuroterus quercusbaccarum</i>	Cynipidae	Hymenoptera	common
<i>Formica cunicularia</i>	Formicidae	Hymenoptera	local
<i>Formica fusca</i>	Formicidae	Hymenoptera	common
<i>Lasius flavus</i>	Formicidae	Hymenoptera	common
<i>Lasius niger</i>	Formicidae	Hymenoptera	common
<i>Lasius platythorax</i>	Formicidae	Hymenoptera	common
<i>Myrmica ruginodis</i>	Formicidae	Hymenoptera	common
<i>Myrmica scabrinodis</i>	Formicidae	Hymenoptera	common
<i>Temnothorax nylanderi</i>	Formicidae	Hymenoptera	local
<i>Lasioglossum leucozonium</i>	Halictidae	Hymenoptera	common
<i>Sphecodes gibbus</i>	Halictidae	Hymenoptera	common
<i>Osmia bicornis</i>	Megachilidae	Hymenoptera	common
<i>Smicromyrme rufipes</i>	Mutillidae	Hymenoptera	Nb
<i>Ormyrus nitidulus</i>	Ormyridae	Hymenoptera	common
<i>Athalia rosae</i>	Tenthredinidae	Hymenoptera	common
<i>Euura bridgmanii</i>	Tenthredinidae	Hymenoptera	common
<i>Torymus varians</i>	Torymidae	Hymenoptera	common
<i>Vespa crabro</i>	Vespidae	Hymenoptera	common
<i>Vespula germanica</i>	Vespidae	Hymenoptera	common
<i>Vespula vulgaris</i>	Vespidae	Hymenoptera	common
<i>Armadillidium vulgare</i>	Armadillidiidae	Isopoda	common
<i>Philoscia muscorum</i>	Philosciidae	Isopoda	common
<i>Porcellio scaber</i>	Porcellionidae	Isopoda	common
<i>Blastobasis rebeli</i>	Blastobasidae	Lepidoptera	common
<i>Agriphila geniculea</i>	Crambidae	Lepidoptera	common
<i>Agriphila tristella</i>	Crambidae	Lepidoptera	common
<i>Chrysoteuchia culmella</i>	Crambidae	Lepidoptera	common
<i>Crambus pascuella</i>	Crambidae	Lepidoptera	common
<i>Nomophila noctuella</i>	Crambidae	Lepidoptera	common
<i>Drepana falcataria</i>	Drepanidae	Lepidoptera	common
<i>Eilema lurideola</i>	Erebidae	Lepidoptera	common
<i>Euclidia glyphica</i>	Erebidae	Lepidoptera	common
<i>Orgyia antiqua</i>	Erebidae	Lepidoptera	common
<i>Tyria jacobaeae</i>	Erebidae	Lepidoptera	Section 41 Priority Species - research only



<i>Dyseriocrania subpurpurella</i>	Eriocraniidae	Lepidoptera	common
<i>Callisto denticulella</i>	Gracillariidae	Lepidoptera	common
<i>Caloptilia rufipennella</i>	Gracillariidae	Lepidoptera	common
<i>Gracillaria syringella</i>	Gracillariidae	Lepidoptera	common
<i>Parornix anglicella</i>	Gracillariidae	Lepidoptera	common
<i>Phyllonorycter acerifoliella</i>	Gracillariidae	Lepidoptera	common
<i>Phyllonorycter harrisella</i>	Gracillariidae	Lepidoptera	common
<i>Thymelicus lineola</i>	Hesperiidae	Lepidoptera	common
<i>Thymelicus sylvestris</i>	Hesperiidae	Lepidoptera	common
<i>Euthrix potatoria</i>	Lasiocampidae	Lepidoptera	common
<i>Favonius quercus</i>	Lycaenidae	Lepidoptera	common
<i>Lycaena phlaeas</i>	Lycaenidae	Lepidoptera	common
<i>Polyommatus icarus</i>	Lycaenidae	Lepidoptera	common
<i>Stigmella atricapitella</i>	Nepticulidae	Lepidoptera	common
<i>Stigmella aurella</i>	Nepticulidae	Lepidoptera	common
<i>Stigmella confusella</i>	Nepticulidae	Lepidoptera	common
<i>Stigmella crataegella</i>	Nepticulidae	Lepidoptera	common
<i>Stigmella floslactella</i>	Nepticulidae	Lepidoptera	common
<i>Stigmella hybnerella</i>	Nepticulidae	Lepidoptera	common
<i>Stigmella malella</i>	Nepticulidae	Lepidoptera	common
<i>Stigmella microtheriella</i>	Nepticulidae	Lepidoptera	common
<i>Stigmella oxyacanthella</i>	Nepticulidae	Lepidoptera	common
<i>Stigmella perpygmaeella</i>	Nepticulidae	Lepidoptera	common
<i>Stigmella plagicolella</i>	Nepticulidae	Lepidoptera	common
<i>Stigmella roborella</i>	Nepticulidae	Lepidoptera	common
<i>Autographa gamma</i>	Noctuidae	Lepidoptera	common
<i>Cosmia trapezina</i>	Noctuidae	Lepidoptera	common
<i>Orthosia cerasi</i>	Noctuidae	Lepidoptera	common
<i>Phalera bucephala</i>	Notodontidae	Lepidoptera	common
<i>Aglais io</i>	Nymphalidae	Lepidoptera	common
<i>Aphantopus hyperantus</i>	Nymphalidae	Lepidoptera	common
<i>Coenonympha pamphilus</i>	Nymphalidae	Lepidoptera	NT;Section 41 Priority Species
<i>Maniola jurtina</i>	Nymphalidae	Lepidoptera	common
<i>Melanargia galathea</i>	Nymphalidae	Lepidoptera	common
<i>Pararge aegeria</i>	Nymphalidae	Lepidoptera	common
<i>Pyronia tithonus</i>	Nymphalidae	Lepidoptera	common
<i>Vanessa atalanta</i>	Nymphalidae	Lepidoptera	common
<i>Carcina quercana</i>	Peleopodidae	Lepidoptera	common
<i>Colias croceus</i>	Pieridae	Lepidoptera	common
<i>Pieris brassicae</i>	Pieridae	Lepidoptera	common
<i>Pieris rapae</i>	Pieridae	Lepidoptera	common
<i>Luffia lapidella</i>	Psychidae	Lepidoptera	common
<i>Psyche casta</i>	Psychidae	Lepidoptera	common
<i>Homoeosoma sinuella</i>	Pyralidae	Lepidoptera	common
<i>Bembecia ichneumoniformis</i>	Sesiidae	Lepidoptera	local

Tischeria ekebladella	Tischeriidae	Lepidoptera	common
Acleris variegana	Tortricidae	Lepidoptera	common
Cydia ulicetana	Tortricidae	Lepidoptera	common
Grapholita compositella	Tortricidae	Lepidoptera	common
Tortrix viridana	Tortricidae	Lepidoptera	common
Zygaena filipendulae	Zygaenidae	Lepidoptera	common
Chrysoperla carnea group	Chrysopidae	Neuroptera	common
Aeshna mixta	Aeshnidae	Odonata	common
Sympetrum striolatum	Libellulidae	Odonata	common
Dicranopalpus ramosus sensu lato	Phalangiidae	Opiliones	common
Odiellus spinosus	Phalangiidae	Opiliones	common
Paroligolophus agrestis	Phalangiidae	Opiliones	common
Chorthippus brunneus	Acrididae	Orthoptera	common
Chorthippus parallelus	Acrididae	Orthoptera	common
Conocephalus fuscus	Conocephalidae	Orthoptera	common
Nemobius sylvestris	Gryllidae	Orthoptera	NS
Meconema thalassinum	Meconematidae	Orthoptera	common
Leptophyes punctatissima	Phaneropteridae	Orthoptera	common
Roeseliana roeselii	Tettigoniidae	Orthoptera	common
Valenzuela flavidus	Caeciliusidae	Psocoptera	common
Ectopsocus briggisi sensu stricto	Ectopsocidae	Psocoptera	common
Ectopsocus petersi	Ectopsocidae	Psocoptera	common
Elipsocus hyalinus	Elipsocidae	Psocoptera	common
Metylophorus nebulosus	Psocidae	Psocoptera	common
Graphopsocus cruciatus	Stenopsocidae	Psocoptera	common
Arion subfuscus	Arionidae	Pulmonata	common
Discusrotundatus	Discidae	Pulmonata	common
Arianta arbustorum	Helicidae	Pulmonata	local
Cornu apersum	Helicidae	Pulmonata	common
Eriophyes prunispinosae	Eriophyidae	Trombidiformes	common

## Appendix 2. Status categories for rare and Notable species

### Red Data Book Category 1 (RDB 1) – Endangered

#### Definition.

Taxa in danger of extinction *in Great Britain* and whose survival is unlikely if the causal factors continue operating.

Included are those taxa whose numbers have been reduced to a critical level or whose habitats have been so dramatically reduced that they are deemed to be in

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immediate danger of extinction. Also included are *some* taxa that are *possibly* extinct.

**Criteria.**

Species which are known *or believed to occur* as only a single population within one 10 km square of the National Grid.

Species which only occur in habitats known to be especially vulnerable.

Species which have shown a rapid or continuous decline over the last twenty years and are now *estimated* to exist in five or fewer 10 km squares.

Species which are *possibly* extinct *but have been recorded this century* and if rediscovered would need protection.

**Red Data Book Category 2 (RDB 2) - Vulnerable**

**Definition.**

Taxa *believed* likely to move into the endangered category in the near future if the causal factors continue operating.

Included are taxa of which most or all of the populations are decreasing because of *over-exploitation*, extensive destruction of habitat or other environmental disturbance; taxa with populations that have been seriously depleted and whose ultimate security is not yet assured; and taxa with populations that are still abundant but are under threat from serious adverse factors throughout their range.

**Criteria.**

Species declining throughout their range.

Species in vulnerable habitats.

**Red Data Book Category 3 (RDB 3) – Rare**

**Definition.**

Taxa with small populations *in Great Britain* that are not at present endangered or vulnerable, but are at risk.

These taxa are usually localised within restricted geographical areas or habitats or are thinly scattered over a more extensive range.

**Criterion.**

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Species which are estimated to exist in only fifteen or fewer 10 km squares. *This criterion may be relaxed where populations are likely to exist in over fifteen 10 km squares but occupy small areas of especially vulnerable habitat*

### **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.

## **Summary of the IUCN categories and criteria.**

### **GB Rarity Status categories and criteria**

- **Nationally Rare (NR)**

Native species which have not been recorded from more than 15 British hectads since 31st December 1979 and where there is reasonable confidence that exhaustive recording would not find them in more than 15 hectads. This category includes species which are probably extinct.

- **Nationally Scarce (NS)**

Native species which are not regarded as Nationally Rare AND which have not been recorded from more than 100 British hectads since 31st December 1979 and where there is

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reasonable confidence that exhaustive recording would not find them in more than 100 hectads.

### **Other species status terminology.**

- **Local.** Species that are restricted in distribution either geographically or by habitat. Also used for species that are widespread but infrequently encountered, e.g. encountered in no more than 300 10km squares of the national Ordnance Survey grid since 1970. Or those species listed as such, based upon modern geographical data, by ISIS (2010) and/or relevant recording schemes.
- **Common.** Generally widespread throughout the UK.

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## APPENDIX 3. RARE AND NOTABLE SPECIES RECORDED

Rare and Notable species are listed below, the criteria for the statuses are given in appendix 2.:-

### ARACHNIDA (SPIDERS)

#### Dictynidae

##### *Nigma puella* (Nationally Scarce)

A distinctive spider with purple and yellow males and cream females with a distinctive red bleeding-heart mark on the abdomen. Formerly largely restricted to the south coast this species is spreading rapidly inland and is now well established through Hampshire and Surrey into London.

#### Linyphiidae

##### *Agyneta* (formerly *Meioneta*) *simplicitarsis* (Nationally Scarce)

A small money spider found mainly in open grassland. Widespread but local across the southeast and scarce in Hampshire.

#### Philodromidae

##### *Philodromus rufus* (pNationally Scarce)

A rufous false-crab spider found on tree and scrub foliage. A recent addition to the UK list having been previously split from *P. albidus*, but it is proving to be widespread and increasing. This appears to be the first record for South Hampshire. Not yet assigned a status but likely to be NS.

#### Salticidae

##### *Ballus chalybeius* – Weevil spider (Nationally Scarce)

A small dumpy jumping spider which lives on tree and shrub foliage. Widespread and frequent in the south.

### DICTYOPTERA (Cockroaches)

#### Blattellidae

##### *Ectobius lapponicus* - Dusky Cockroach (Nationally Scarce B)

A widespread species in the south in scrubby habitats.

### DIPTERA

#### Micropezidae

##### *Micropeza lateralis* (Nationally Scarce)

A stilt-legged fly associated primarily with stands of broom. Widespread but local.

#### Tephritidae

##### *Tephritis zoe* (Nationally notable)

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A picture winged fly which mines the leaves of mugwort, widespread and seemingly spreading across England

### **Uliidae**

*Dorycera graminum*- **Phoenix fly (Nationally Scarce, Schedule 41 priority species.**

This species was formerly widespread but underwent a drastic decline in the late 20<sup>th</sup> Century so much so that it was used as a flagship species and placed on schedule 41. It is however spreading rapidly once more and is now very widespread and frequent in a wide variety of grasslands and can no longer be justified as scarce or indeed as a reliable indicator of quality grassland and should be demoted to local.

## **ORTHOPTERA**

*Nemobius sylvestris* – **Wood cricket (Nationally Scarce)**

A very localised species commonest in New Forest and Dorset and scattered along coastal areas of Hampshire. Found amongst leaf litter under trees and hedges in sunny situations.

## **HEMIPTERA**

*Berytinus hirticornis* **(Nationally Scarce)**

A stilt bug possibly associated with grass vetchling. It has spread rapidly across south-east England in recent decades, and in Hampshire is now known from three sites around the Solent and one near Ringwood.

### **Delphacidae**

*Scottianella dalei* **(Nationally Scarce B)**

A minute delphacid hopper found in open grassland, mires and heaths. Very uncommon and the first record outside the New Forest in South Hampshire.

## **HYMENOPTERA**

### **Mutillidae**

*Smicromyrme rufipes* **(Nationally Notable B)**

A small wasp which parasitizes ground nesting aculeates. Local and largely confined to dunes heaths and sand pit areas.

### **Crabronidae**

*Lestiphorus bicinctus* **(Nationally Notable B)**

A small yellow and black solitary wasp found in scrubby and brambly places. Local but widespread.

## **DIPTERA**

### **Tachinidae**

*Cistogaster globosa* **(provisionally Nationally Scarce)**

A parasite of bishop's mitre *Aelia acuminata*. It has spread dramatically in the 21<sup>st</sup> Century. It is still listed as RDB2 but likely to be reassigned NS in upcoming review.

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***Gymnosoma rotundatum* (provisionally Nationally Scarce)**

A parasite of shieldbugs. It has spread dramatically across the south of England since the late 20<sup>th</sup> Century. It is still listed as RDB3 but likely to be reassigned NS in upcoming review.

**COLEOPTERA (Beetles)**

**Anobiidae**

***Dryophilus anobioides* –Broom woodworm (Nationally Rare)**

**NEW VICE-COUNTY RECORD**

An anobiid beetle which develops in dead broom stems. First record for South Hampshire (VC11), and only the second Hampshire record.

**Chrysomelidae**

***Cassida prasina*- Yarrow tortoise beetle (Nationally Scarce)**

A small tortoise beetle associated with yarrow. Local but widespread across the south.

**Curculionidae**

***Mecinus circulatus*- (Nationally Scarce)**

A scarce weevil which is local and mainly restricted to coastal counties of England & Wales, where it feeds on ribwort plantain.

***Mecinus collaris*- (Nationally Scarce)**

A scarce weevil which is very local and restricted to coastal counties of England & Wales, where it feeds on sea plantain. It is only known in Hampshire from the Hamble valley and Portsdown Hill, and the presence of adults on trees at the eastern edge of the site represents wintering from populations on the adjacent saltmarsh areas.

***Polydrusus formosus* (Nationally Scarce)**

A green weevil which has spread rapidly over past two decades or so and is now locally frequent on foliage of trees and bushes across the south-east.

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