

A PROVISIONAL ANNOTATED CHECKLIST OF ISLE OF WIGHT ACULEATE HYMENOPTERA

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Abstract

The author provides a provisional checklist of Isle of Wight aculeate Hymenoptera (excluding Bethyloidea) based on recent field survey, and historical and recent archive material. National status categories are given for relevant species, together with a provisional listing of the local status for each species.

Introduction

Both historically and currently, the Isle of Wight is recognised as an area of national significance for its aculeate Hymenopteran fauna. The combination of a generally warm climate and a range of habitats of particular appeal to this group of insects make the Island one of the richest areas in the country for these insects. Bees, wasps and ants occupy a wide range of habitats collectively, although individually many species are highly specific in their requirements. Island habitats of particular importance for aculeates include chalk downland, soft rock cliffs and landslips, sandy areas (including heathland), woodland and rough coastal grassland. Amongst these habitats perhaps the soft rock cliffs and landslips are most important, since they are home to a number of species whose national ranges are either solely or largely restricted to the Isle of Wight.

During the course of extensive fieldwork over the last five years the author has recorded Isle of Wight aculeates from all of the above habitats, with a total of 256 species recorded during this period. Searching through data in Morey (1908), Falk (1991), the Hampshire & Isle of Wight Naturalist's Trust database, records in the Isle of Wight Natural History and Archaeological Society archive and the recent Provisional Atlases for Hymenoptera (Edwards, 1997, 1998. Edwards & Telfer 2001, 2002) has yielded records of a further 83 species known from the Island, giving a total of 340 species. This represents some 62% of the total British list of 543 aculeate Hymenoptera (excluding Bethyloidea) - a highly creditable total for an area as small as the Isle of Wight.

Although the above indicates that considerable recording effort has been expended on the group locally, published records are comparatively few and it would appear that no checklist of the Island's aculeate fauna has been published since Morey (1908). In an attempt to rectify this, or at least to provide a starting point, the author offers the following provisional annotated checklist of Isle of Wight aculeates. This list should not be regarded as exhaustive; I am still regularly finding previously unrecorded species, and have done comparatively little work on some groups e.g. ants. Records for Bethyloidea, where there has been little or no recording effort, have been ignored. Doubtless there are also published records which I have overlooked.

It is hoped that this checklist may stimulate further recording in this fascinating group of insects. The author is happy to examine reasonable quantities of material for identification purposes.

A number of the species encountered are considered to be Nationally Scarce or Red Data Book species. The status category definitions and criteria for individual species are those devised by the JNCC and are as follows :

Status Category and Definitions.

RDB 1 - Endangered.

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

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

Species which only occur in habitats known to be particularly 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 10km squares.

Species which are possibly extinct but have been recorded in the 20th century and if rediscovered would need protection.

RDB 2 - Vulnerable.

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

Species declining throughout their range.

Species in vulnerable habitats.

RDB 3 - Rare.

Taxa with small populations that are not at present Endangered or Vulnerable, but are at risk

Species which are estimated to exist in only fifteen or fewer post 1970 10km squares. This criterion may be relaxed where populations are likely to exist in over fifteen 10km squares but occupy small areas of especially vulnerable habitat.

Nationally Scarce (Na).

Taxa which do not fall within the RDB categories but which are none - the - less uncommon in Great Britain and thought to occur in 30 or fewer 10km squares of the National Grid.

Nationally Scarce (Nb).

Taxa which do not fall within the RDB categories but which are none - the - less uncommon and thought to occur in between 31 and 100 10km squares of the national Grid.

Nationally Scarce (N).

Species which are estimated to occur within the range of 16 to 100 10km squares.

It should be noted that the true status of a number of species either included in or excluded from the above categories requires review. This is as a result of increased knowledge of a species habits, or recent increases or decreases in population sizes or distributions. Examples include *Philanthus triangulum*, the status of which requires review following a considerable recent range expansion, and *Tachysphex unicolor* sensu stricto, which has recently been separated from *Tachysphex nitidus* and is largely confined to the Isle of Wight and Dorset coasts.

Notes on the Provisional Checklist

The nomenclature used in the provisional checklist follows that of Fitton *et al* (1978) with updates for Scoliidae, Vespoidea and Sphecoidea by Richards (1980), Chrysididae by Morgan (1984) and Pompilidae by Day (1988). Recent colonists such as the Social Wasp *Dolichovespula saxonica* are included. Additionally, recent splits such as the separation of *Tachysphex unicolor* sensu stricto and *T. nitidus* have been incorporated.

PROVISIONAL LIST OF ACULEATE HYMENOPTERA

Where the author has recorded the species within the last 5 years there is no suffix. Where the species has been recorded only at one or two recent sites localities are given. In other cases a local status has been attempted using the terms common, widespread, local, scarce and rare in ascending order of scarcity.

Species marked with an asterisk (*) have post 1970 confirmed records from either Falk (1991), Edwards (1997, 1998) or Edwards & Telfer (2001, 2002). The bulk of these records will have been vetted, especially in the latter publications, and these records may be assumed accurate.

Species which were recorded in Morey (1908) or are from other historical sources, but have not been recorded since are marked with a +. These are unchecked records and may include some erroneous species due to subsequent nomenclatural changes or “splitting” of species. One or two obvious inaccuracies have been excluded.

With the additional records marked with a + or * it has not always been possible to assign a local status category. Such species are marked “unknown”. Some species recorded in Morey are now certainly extinct on the Island (and in some cases in the UK) and are marked as such, others are likely to be extinct and are marked “believed extinct”.

References.

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TABLE 1.

PROVISIONAL CHECKLIST OF ISLE OF WIGHT ACULEATE HYMENOPTERA.

GENUS & SPECIES	NATIONAL STATUS	LOCAL STATUS
CHRYSIDIDAE.		
OMALUS Panzer, 1801		
<i>aeneus</i> (Fabricius, 1787) +	unknown	
<i>auratus</i> (Linnaeus, 1758)		Widespread
<i>puncticollis</i> (Mocsary, 1887)	Nationally Scarce (Na)	Mottistone Common, America Woods.
HEDYCHRIDIUM		
<i>ardens</i> (Latreille in Coquebert, 1801)	St. Helens Duver	
<i>coriaceum</i> (Dahlbom, 1854) +	Rare (RDB3)	unknown
<i>roseum</i> (Rossi, 1790)		Headon Warren
HEDYCHRUM		
<i>niemelai</i> Linsenmaier, 1959	Rare (RDB3)	Headon Warren
CHRYSIS		
<i>angustula</i> Schenck, 1846		Briddlesford woodlands complex
<i>ignita</i> Linnaeus, 1758		Local
<i>mediata</i> Linsenmaier, 1959		Local
<i>rutiliventris</i> Abeille de Perrin, 1879		Castle Haven
<i>viridula</i> Linnaeus, 1761 *		Local
TRICHRYSIS		
<i>cyanea</i> (Linnaeus, 1758)		Widespread
TIPHIIDAE.		
TIPHIA		
<i>femorata</i> Fabricius, 1775		St. Catherine's area
<i>minuta</i> Vander Linden, 1827 +	Nationally Scarce (Nb)	unknown
METHOCA		
<i>ichneumonoides</i> Latreille, 1804	Nationally Scarce (Nb)	Sandy areas on landslips and inland heathland
MYRMOSA		
<i>atra</i> Panzer, 1801		Widespread in sandy areas
MUTILLIDAE.		
SMICROMYRME		
<i>rufipes</i> (Fabricius, 1787)	Nationally Scarce (Nb)	Redcliff, Castle Haven

PROVISIONAL LIST OF ACULEATE HYMENOPTERA

SAPYGIDAE.

SAPYGA

<i>clavicornis</i> (Linnaeus,1758) *	Nationally Scarce (Nb)	rare
<i>quinquepunctata</i> (Fabricius,1781) *		rare

FORMICIDAE.

PONERA

<i>coarctata</i> (Latreille,1802) +	Nationally Scarce (Nb)	unknown
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MYRMICA

<i>rubra</i> (Linnaeus,1758)		common
<i>ruginodis</i> Nylander,1846		common
<i>sabuleti</i> Meinert, 1860 *		unknown
<i>scabrinodis</i> Nylander,1846		widespread

LEPTOTHORAX

<i>acervorum</i> (Fabricius,1793) *		widespread
<i>tuberum</i> (Fabricius,1775)	Nationally Scarce (Na)	St Catherine's area

TETRAMORIUM

<i>caespitum</i> (Linnaeus,1758) *		scarce, coastal
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SOLENOPSIS

<i>fugax</i> (Latreille,1798) +	Rare (RDB3)	rare, coastal
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STENEMMA

<i>westwoodi</i> Westwood,1840 +		unknown
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MYRMECINA

<i>graminicola</i> (Latreille,1802) +		unknown
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TAPINOMA

<i>erraticum</i> (Latreille,1798) *	Nationally Scarce (Nb)	unknown
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FORMICA

<i>cunicularia</i> Latreille,1798		Mottistone Common
<i>exsecta</i> Nylander,1846 +	Endangered (RDB1)	Extinct 1913. Previously in Parkhurst Forest.
<i>fusca</i> Linnaeus,1758		common
<i>rufa</i> Linnaeus,1758		Rare - stronghold is Parkhurst Forest

LASIVUS

<i>alienus</i> (Forster,1850)		local
<i>brunneus</i> (Latreille,1798) *	Nationally Scarce (Na)	rare
<i>flavus</i> (Fabricius,1781)		widespread
<i>fuliginosus</i> (Latreille,1798) *		rare
<i>niger</i> (Linnaeus,1758)		common
<i>umbratus</i> (Nylander,1846)		widespread

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POMPILIDAE.

DIPOGON

variegatus (Linnaeus,1758) +

unknown

AUPLOPUS

carbonarius (Scopoli,1763) *

Nationally Scarce (Nb)

rare

CALIADURGUS

fasciatellus (Spinola,1808)

widespread

CRYPTOCHEILUS

notatus (Rossius,1792) *

Vulnerable (RDB2)

rare, St Catherine's area

PRIOCNEMIS

agilis (Shuckard,1837) +

cordivalvata Haupt, 1927 +

exaltata (Fabricius,1775)

fennica Haupt,1927

gracilis Haupt,1927

parvula Dahlbom,1845

perturbator (Harris, 1780)

pusilla Schiodte,1837

susterai Haupt, 1927

Nationally Scarce (Nb)

Nationally Scarce (Nb)

Nationally Scarce (Nb)

unknown

unknown

Mottistone Common

local, sandy areas

local

local

common

local

local

POMPILUS

cinerea (Fabricius,1775)

local

AGENIOIDEUS

cinctellus (Spinola),1808)

scarce

ARACHNOSPILA

anceps (Wesmael,1851)

spissa (Schiodte,1837)

common

scarce

EVAGETES

crassicornis (Shuckard,1837)

local

ANOPLIUS

caviventris (Auruvillius,1907) *

concinus (Dahlbom,1845) *

infuscatus (Vander Linden, 1827)

nigerrimus (Scopoli,1763)

viaticus (Linnaeus, 1758) +

Nationally Scarce (Nb)

rare

local

widespread

common

unknown

EPISYRON

rufipes (Linnaeus, 1758)

local

APORUS

unicolor Spinola, 1808

Nationally Scarce (Nb)

Tennyson Down,
Castle Haven

PROVISIONAL LIST OF ACULEATE HYMENOPTERA

EUMENIDAE.

ODYNERUS

melanocephalus (Gmelin in Linnaeus, 1790) Nationally Scarce (Na) Redcliff, Castle Cove.
spinipes (Linnaeus, 1758) * local

GYMNOMERUS

laevipes (Shuckard, 1837) * rare

MICRODYNERUS

exilis (Herrich - Schaffer, 1839) Nationally Scarce (Nb) scarce

ANCISTROCERUS

antilope (Panzer, 1798) + Rare (RDB3) Extinct
gazella (Panzer, 1798)

common
nigricornis (Curtis, 1826) + unknown
oviventris (Wesmael, 1836) * scarce
parietinus (Linnaeus, 1761) scarce
parietum (Linnaeus, 1758) local
scoticus (Curtis, 1826) * scarce
trifasciatus (Muller, 1776) common

SYMMORPHUS

connexus (Curtis, 1826) Rare (RDB3) Priors Woods
gracilis (Brulle, 1832) scarce
mutinensis (Baldini, 1894) St. Helens

VESPIDAE.

VESPA

crabro Linnaeus, 1758 Briddlesford woodlands, rare.

DOLICHOVESPULA

media (Retzius, 1783) Nationally Scarce (Na) scarce, increasing.
norwegica (Fabricius, 1781) * scarce
saxonica (Fabricius) * Uncertain (RDBK) rare
sylvestris (Scopoli, 1763) local

VESPULA

germanica (Fabricius, 1793) common
rufa (Linnaeus, 1758) widespread
vulgaris (Linnaeus, 1758) common

SPHECIDAE.

ASTATA

boops (Schrank, 1972) local, sandy areas.

DRYUDELLA

pinguis (Dahlbom, 1832) St. Helens Duver

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TACHYSPHEX

pompiliformis (Panzer, 1803)
unicolor (Panzer, 1809)

widespread
scarce

TRYPOXYLON

attenuatum Smith, F. 1851
clavicerum Lepeletier, 1828
figulus (Linnaeus, 1758)
medium de Beaumont, 1945

common
scarce
local
scarce

CRABRO

cribrarius (Linnaeus, 1758)
peltarius (Schreber, 1784)

common
widespread

CROSSOCERUS

annulipes (Lepetier & Brulle, 1835)
binotatus Lepeletier & Brulle, 1835
capitosus (Schuckard, 1837)
cetratus (Schuckard, 1837)
dimidiatus (Fabricius, 1781)
elongatulus (Vander Linden, 1829)
megacephalus (Rossius, 1790)
nigritus Lepeletier & Brulle, 1835
ovalis Lepeletier & Brulle, 1835
palmipes (Linnaeus, 1767) +
podagricus (Vander Linden, 1829)
quadrimaculatus (Fabricius, 1793)
styrius (Kohl, 1892)
tarsatus (Schuckard, 1837)

wesmaeli (Vander Linden, 1829)

Nationally Scarce (Na)

Idlecombe Down
Idlecombe Down
Wroxall Copse
local
scarce
local
widespread
local
scarce
unknown
common
common
Wroxall Copse
Headon Warren,
Bridlesford Woodlands
Headon Warren,
St. Helens Duver.

Nationally Scarce (Nb)

ECTEMNIUS

cavifrons (Thomson, 1870)
cephalotes (Olivier, 1792)
continuus (Fabricius, 1804)
dives (Lepeletier & Brulle, 1835) *
lapidarius (Panzer, 1804) *
lituratus (Panzer, 1804)
rubicola (Dufour & Perris, 1840)
sexcinctus (Fabricius, 1775)

Nationally Scarce (Nb)

scarce
common
common
rare
rare
common
common
Castle Cove

LINDENIUS

albilabris (Fabricius, 1793)
panzeri (Vander Linden, 1829) +

common
unknown

ENTOMOGNATHUS

brevis (Vander Linden, 1829)

widespread

PROVISIONAL LIST OF ACULEATE HYMENOPTERA

RHOPALUM

clavipes (Linnaeus, 1758) + unknown

OXYBELUS

argentatus Curtis, 1833 * Nationally Scarce (Na) rare
mandibularis Dahlbom, 1845 * Nationally Scarce (Na) rare
uniglumis (Linnaeus, 1758) common

PSEN

atratinus (Morawitz, F., 1891) Vulnerable (RDB2) rare, soft rock landslips
bicolor Jurine, 1807 + Vulnerable (RDB2) unknown
bruxellensis (Bondroit, 1933) Nationally Scarce (Na) Headon Warren
dahlbomi (Wemael, 1852) Mottistone Common
lutarius (Fabricius, 1804) Headon Warren
spooneri (Richards, 1948) + Rare (RDB3) unknown
unicolor (Vander Linden, 1829) Nationally Scarce (Na) scarce, soft rock landslips

PSENUCLUS

pallipes (Panzer, 1798) scarce
schencki (Tourmier, 1889) Nationally Scarce (Na) Briddlesford woodlands,
 Castle Haven

PEMPHREDON

inornata Say, 1824 widespread
lethifer (Schuckard, 1837) common
lugubris (Fabricius, 1793) widespread
morio Vander Linden, 1829 + Nationally Scarce (Nb) unknown

DIODONTUS

luperus Schuckard, 1837 Headon Warren
minutus (Fabricius, 1793) common
tristris (Vander Linden, 1829) scarce

PASSALOEUCUS

corniger Schuckard, 1837 + unknown
gracilis (Curtis, 1834) * unknown
insignis (Vander Linden, 1829) scarce
monilicornis Dahlbom, 1842 + unknown
singularis Dahlbom, 1844 widespread

AMMOPHILA

sabulosa (Linnaeus, 1758) common

PODALONIA

affinis (Kirby, 1798) * Rare (RDB3) unknown
hirsuta (Scopoli, 1763) * Nationally Scarce (Nb) unknown

MELLINUS

arvensis (Linnaeus, 1758) common
crabroneus (Thunberg, 1791) + Endangered (RDB1+) Extinct

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NYSSON

<i>dimidiatus</i> Jurine, 1807	Nationally Scarce (Nb)	Mottistone Common
<i>interruptus</i> (Fabricius, 1798) *	Vulnerable (RDB2)	unknown
<i>spinus</i> (Forster, 1771)		scarce
<i>trimaculatus</i> (Rossius, 1790)	Nationally Scarce (Nb)	widespread

ALYSSON

<i>lunicornis</i> (Fabricius, 1798) *	Nationally Scarce (Na)	unknown
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GORYTES

<i>bicinctus</i> (Rossius, 1794)	Nationally Scarce (Nb)	local
<i>quadrifasciatus</i> (Fabricius, 1804) *		unknown
<i>tumidus</i> (Panzer, 1801)		Luccombe Down

ARGOGORYTES

<i>fargeii</i> (Schuckard, 1837) *	Nationally Scarce (Na)	unknown
<i>mystaceus</i> (Linnaeus, 1761)		common

CERCERIS

<i>arenaria</i> (Linnaeus, 1758)		common
<i>ruficornis</i> (Fabricius, 1793)		Mottistone Common, Headon Warren
<i>rybyensis</i> (Linnaeus, 1771)		common

PHILANTHUS

<i>triangulum</i> (Fabricius, 1775)	Vulnerable (RDB2)	Common. Status needs downgrading
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COLLETIDAE.

COLLETES

<i>daviesanus</i> Smith, F., 1846		widespread
<i>fodiens</i> (Geoffroy in Fourcroy, 1785)		common
<i>halophilus</i> Verhoeff, P. M. F., 1845	Nationally Scarce (Na)	St. Helens Duver
<i>marginatus</i> Smith, F. 1846	Nationally Scarce (Na)	St. Helens Duver
<i>similis</i> Schenck, 1853		local
<i>succinctus</i> (Linnaeus, 1758)		local

HYLAEUS

<i>annularis</i> (Kirby, 1802)		common
<i>brevicornis</i> Nylander, 1852		common
<i>communis</i> Nylander, 1852		common
<i>confusus</i> Nylander, 1852		common
<i>euryscapus</i> Forster, 1871 +	Rare (RDB3)	unknown
<i>hyalinatus</i> Smith, F., 1843		common
<i>pectoralis</i> Forster, 1871 *		unknown
<i>signatus</i> (Panzer, 1798) +	Nationally Scarce (Nb)	unknown

PROVISIONAL LIST OF ACULEATE HYMENOPTERA

ANDRENIDAE.

ANDRENA

<i>alphanella</i> Perkins, R. C. L. 1914	Rare (RDB3)	Castle Cove
<i>angustior</i> (Kirby, 1802)		local
<i>apicata</i> Smith, F., 1847	Nationally Scarce (Nb)	Headon Warren
<i>barbilabris</i> (Kirby, 1802)		local
<i>bicolor</i> Fabricius, 1775		common
<i>chrysoceles</i> (Kirby, 1802)		common
<i>cineraria</i> (Linnaeus, 1758)		common
<i>clarkella</i> (Kirby, 1802)		Borthwood, Headon Warren
<i>denticulata</i> (Kirby, 1802)		Idlecombe Down, Priory Woods
<i>dorsata</i> (Kirby, 1802)		common
<i>falsifica</i> Perkins, R. C. L., 1914	Nationally Scarce (Na)	Tennyson Down
<i>flavipes</i> Panzer, 1798		common
<i>florea</i> Fabricius, 1793 *	Rare (RDB3)	unknown
<i>fucata</i> Smith, F., 1847		Luccombe Down
<i>fulva</i> (Muller in Allioni, 1766)		common
<i>fulvago</i> (Christ, 1791	Nationally Scarce (Na)	scarce, Chalk grassland
<i>fuscipes</i> (Kirby, 1802)		Headon Warren
<i>haemorrhoea</i> (Fabricius, 1781)		common
<i>hatorfiana</i> (Fabricius, 1775) +	Rare (RDB3)	believed extinct
<i>humilis</i> Imhoff, 1832 +	Nationally Scarce (Nb)	unknown
<i>labialis</i> (Kirby, 1802)		common
<i>labiata</i> Fabricius 1781	Nationally Scarce (Na)	local
<i>marginata</i> Fabricius, 1777	Nationally Scarce (Na)	Culver Down
<i>minutula</i> (Kirby, 1802)		common
<i>minutuloides</i> Perkins, R. C. L., 1914	Nationally Scarce (Na)	Idlecombe Down, Castle Haven
<i>nigroaenea</i> (Kirby, 1802)		common
<i>nigriceps</i> (Kirby, 1802) *	Nationally Scarce (Nb)	rare
<i>nitidiuscula</i> Schenck 1853	Rare (RDB3)	Culver Down, Castle Cove
<i>ovatula</i> (Kirby, 1802)		common
<i>pilipes</i> Fabricius, 1781 <i>s.l.</i>	Nationally Scarce (Nb)	widespread
<i>proxima</i> (Kirby, 1802)	Rare (RDB3)	Woody Bay, St. Catherines
<i>pubescens</i> Olivier, 1789		common
<i>rosae</i> Panzer, 1800+	Vulnerable (RDB2)	unknown
<i>semilaevis</i> Perez, 1903		Idlecombe Down, Mottistone Common
<i>scotica</i> Perkins, R. C. L., 1919		common
<i>simillima</i> Smith, F. 1851 +	Vulnerable (RDB2)	unknown
<i>subopaca</i> Nylander, 1848		local
<i>synadelpha</i> Perkins R. C. L., 1914		scarce
<i>thoracica</i> (Fabricius, 1775)		common
<i>trimmerana</i> (Kirby, 1802)	Nationally Scarce (Nb)	common
<i>varians</i> (Rossius, 1792)	Nationally Scarce (Nb)	Headon Warren
<i>wilkella</i> (Kirby, 1802)		common

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PANURGUS

banksianus (Kirby, 1802)

Idlecombe Down,
Headon Warren
local

calcaratus (Scopoli, 1763)

HALICTIDAE.

HALICTUS

confusus Smith, 185

Rare (RDB3)

St. Helens Duver

eurygnathus Bluthgen, 1931 +

Endangered (RDB1+)

Extinct

maculatus Smith, F., 1848 +

Endangered (RDB1+)

Extinct

rubicundus (Christ, 1791)

local

tumulorum (Linnaeus, 1758)

common

LASIOGLOSSUM

albipes (Fabricius, 1781)

common

angusticeps (Perkins, R. C. L., 1895)

Rare (RDB3)

Redcliff, Woody Bay

calceatum (Scopoli, 1763)

common

fratellum (Perez, 1903)

common

fulvicorne (Kirby, 1802)

common

laevigatum (Kirby, 1802) +

unknown

lativentre (Schenck, 1853)

common

leucopus (Kirby, 1802)

common

leucozonium (Schrank, 1781)

common

malachurum (Kirby, 1802)

Nationally Scarce (Nb)

common

minutissimum (Kirby, 1802)

common

morio (Fabricius, 1793)

common

nitidiusculum (Kirby, 1802) +

unknown

parvulum Schenck, 1853)

scarce

pauperatum (Brulle, 1832) +

Rare (RDB3)

unknown

pauxillum (Schenck, 1853)

Nationally Scarce (Na)

widespread

prasinum (Smith, F., 1848) *

unknown

punctatissimum (Schenck, 1853)

common

puncticolle (Morawitz, F., 1872)

Nationally Scarce (Nb)

common

smeathmanellum (Kirby, 1802)

common

villosulum (Kirby, 1802)

common

xanthopus (Kirby, 1802) *

Nationally Scarce (Nb)

unknown

zonulum (Smith, F., 1849)

widespread

SPHECODES

crassus Thomson, 1870

Nationally Scarce (Nb)

widespread

ephippius (Linnaeus, 1767)

common

geoffrellus (Kirby, 1802)

Castle Haven,
Headon Warren

gibbus (Linnaeus, 1758)

Mottistone Common

miniatus von Hagens, 1882

Nationally Scarce (Nb)

Headon Warren

monilicornis (Kirby, 1802)

common

niger von Hagens, 1882

Rare (RDB3)

local

PROVISIONAL LIST OF ACULEATE HYMENOPTERA

<i>pellucidus</i> Smith, F., 1845		Headon Warren, St. Helens Duver scarce
<i>puncticeps</i> Thomson, 1870	Nationally Scarce (Na)	Castle Cove, Brook Down
<i>reticulatus</i> Thomson, 1870	Nationally Scarce (Na)	Redcliff, Castle Haven
<i>rubicundus</i> von Hagens, 1875		
MELITTIDAE.		
MELITTA		
<i>haemorrhoidalis</i> (Fabricius, 1775)		local
<i>leporina</i> (Panzer, 1799) *		unknown
<i>tricincta</i> (Kirby, 1802)	Nationally Scarce (Nb)	Idlecombe Down, East Afton Down
MACROPIS		
<i>europaea</i> Warncke, 1973 *	Nationally Scarce (Na)	unknown
DASYPODA		
<i>altercator</i> (Harris, 1780)	Nationally Scarce (Nb)	St. Helens Duver
MEGACHILIDAE.		
ANTHIDIUM		
<i>manicatum</i> (Linnaeus, 1758)		local
STELIS		
<i>punctulatissima</i> (Kirby, 1802) *	Nationally Scarce (Nb)	unknown
CHELOSTOMA		
<i>campanularum</i> (Kirby, 1802)		local
<i>florisomne</i> (Linnaeus, 1758)		widespread
OSMIA		
<i>aurulenta</i> (Panzer, 1799)		common
<i>caerulescens</i> (Linnaeus, 1758)		widespread
<i>leaiana</i> (Kirby, 1802) +		unknown
<i>pilicornis</i> Smith, F., 1846 *	Nationally Scarce (Na)	unknown
<i>rufa</i> (Linnaeus, 1758)		common
<i>xanthomelana</i> (Kirby, 1802) *	Endangered (RDB1)	believed Extinct
HOPLITIS		
<i>claviventris</i> (Thomson, 1872)		common
<i>spinulosa</i> (Kirby, 1802)		common
MEGACHILE		
<i>centuncularis</i> (Linnaeus, 1758)		common
<i>leachella</i> Curtis, 1828	Nationally Scarce (Nb)	local
<i>lignesea</i> (Kirby, 1802)		common
<i>maritima</i> (Kirby, 1802)		scarce
<i>versicolor</i> Smith, F., 1844		common
<i>willughbiella</i> (Kirby, 1802)		common

ADAM WRIGHT

COELIOXYS

<i>conoidea</i> Illiger, 1806		widespread
<i>elongata</i> Lepeletier, 1841		rare
<i>inermis</i> (Kirby, 1802)		St. Helens Duver
<i>quadridentata</i> (Linnaeus, 1758) +	Rare (RDB3)	unknown
<i>rufescens</i> Lepeletier & Serville, 1815		common

ANTHOPHORIDAE.

NOMADA

<i>armata</i> Herrich - Schaffer, 1839 +	Endangered (RDB1)	Extinct
<i>conjungens</i> Herrich - Schaffer, 1839	Vulnerable (RDB2)	Castle Haven
<i>fabriciana</i> (Linnaeus, 1767)		common
<i>flava</i> Panzer, 1798		common
<i>flavoguttata</i> (Kirby, 1802)		common
<i>flavopicta</i> (Kirby, 1802) +	Nationally Scarce (Nb)	unknown
<i>fucata</i> Panzer, 1798	Nationally Scarce (Na)	common
<i>fulvicornis</i> Fabricius, 1793	Rare (RDB3)	Idlecombe Down, Redcliff
<i>goodeniana</i> (Kirby, 1802)		common
<i>lathburiana</i> (Kirby, 1802)	Rare (RDB3)	local
<i>leucopthalma</i> (Kirby, 1802)		widespread
<i>marshamella</i> (Kirby, 1802)		common
<i>panzeri</i> Lepeletier, 1841		widespread
<i>robertjeoitana</i> Panzer, 1798 +	Rare (RDB3)	unknown
<i>ruficornis</i> (Linnaeus, 1758)		common
<i>rufipes</i> Fabricius, 1793		widespread
<i>striata</i> Fabricius, 1793		Castle Haven

EPEOLUS

<i>cruciger</i> (Panzer, 1799)		scarce
<i>variegatus</i> (Linnaeus, 1758)		widespread

EUCERA

<i>longicornis</i> (Linnaeus, 1758)	Nationally Scarce (Na)	rare
<i>nigrescens</i> Perez, +	Endangered (RDB1)	Extinct

ANTHOPHORA

<i>bimaculata</i> (Panzer, 1798)		common
<i>furcata</i> (Panzer, 1798)		scarce
<i>plumipes</i> (Pallas, 1772)		common
<i>retusa</i> (Linnaeus, 1758)	Endangered (RDB1)	Culver Down

MELECTA

<i>albifrons</i> (Forster, 1771)		rare
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APIDAE.

BOMBUS

<i>barbutellus</i> (Kirby, 1802) +		unknown
<i>campestris</i> (Panzer, 1800)		scarce

PROVISIONAL LIST OF ACULEATE HYMENOPTERA

<i>hortorum</i> (Linnaeus, 1761)		common
<i>humilis</i> Illiger, 1806		Redcliff
<i>jonellus</i> (Kirby, 1802)		widespread
<i>lapidarius</i> (Linnaeus, 1758)		common
<i>lucorum</i> (Linnaeus, 1761)		common
<i>pascuorum</i> (Scopoli, 1763)		common
<i>pratorum</i> (Linnaeus, 1761)		common
<i>runderarius</i> (Muller, 1776) *		unknown
<i>rupestris</i> (Fabricius, 1793)	Nationally Scarce (Nb)	Culver Down, Bridlesford woodlands
<i>subterraneus</i> (Linnaeus, 1758) +	Nationally Scarce (Na)	Extinct
<i>sylvarum</i> (Linnaeus, 1761) +	Nationally Scarce (Nb)	Extinct
<i>sylvestris</i> Lepeletier, 1833 +		unknown
<i>terrestris</i> (Linnaeus, 1758)		common
<i>vestalis</i> (Geoffroy in Fourcroy, 1785)		common
APIS		
<i>mellifera</i> Linnaeus, 1758		common

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