

## An annotated list of the Aculeate Hymenoptera of Worcestershire

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This list is based on my own database from 1990. It is probable that additional recent records have been submitted to the Worcestershire Biological Records Centre so that the list is not absolutely complete. Nonetheless, it gives a good summary of the state of aculeate hymenoptera recording in the county. I have not listed the sites at which the various species have been found as this would increase the length of the list by an unacceptable amount. However, I hope the

notes on habitat preferences will be helpful by indicating where to look.

Notes on the status have departed slightly from the national standards with regard to the term “widespread” which indicates the species to be at least fairly common and not considered to be at risk. In national atlases the term refers to the total distribution of the species concerned. However, I thought it would be more useful to indicate the status in the southern half of England so that some of the species suggested as widespread may be far from so in northern England, Scotland, Northern Ireland etc.

| Species  | Number of records | Date of last record | Location/habitat   | Flight period                                  | Status                       |
|--|-------------------|---------------------|--|--|------------------------------|
| <b>CHRYSIDIDAE</b>                             |                   |                     |  |  |                              |
| <i>Chrysis angustula</i>                       | 6                 | 2011                | Widespread   | May – August                                   | Widespread                   |
| <i>Chrysis ignita</i> <sup>1</sup>             | 6                 | 2015                | Walls, cliffs, dead wood   | May - October                                  | Widespread                   |
| <i>Chrysis impressa</i>                        | 1                 | 2003                | Walls, cliffs, dead wood   | May – September                                | Widespread                   |
| <i>Chrysis viridula</i>                        | 2                 | 2011                | Vertical banks of hard earth, walls  | May/June – August                              | Widespread                   |
| <i>Chrysura radians</i>                        | 2                 | 2007                | Dead wood, stumps, posts   | May – July/August                              | Scarce (Na)                  |
| <i>Elampus panzeri</i>                         | 1                 | 2004                | Dry, sandy sites   | June – August                                  | Widespread                   |
| <i>Hedychridium ardens</i>                     | 2                 | 1995                | Dry, sandy sites   | May – August                                   | Widespread                   |
| <i>Hedychridium cupreum</i>                    | 2                 | 1995                | Dry, sandy sites   | June – August                                  | Scarce (Nb)                  |
| <i>Omalus aeneus</i> <sup>2</sup>              | 1                 | 2003                | Mill Meadow  | Possibly June/July                             | Widespread                   |
| <i>Pseudomalus auratus</i>                     | 4                 | 2008                | Open sites with hollow stems   | May – September                                | Widespread                   |
| <i>Trichrysis cyanea</i>                       | 16                | 2015                | Holes in dead wood, fences, posts  | May – September                                | Widespread                   |
| <b>TIPHIIDAE</b>                               |                   |                     |  |  |                              |
| <i>Tiphia femorata</i>                         | 9                 | 2016                | Inland heaths, land slips etc.   | June – September                               | Widespread                   |
| <i>Tiphia minuta</i>                           | 1                 | 2003                | Heaths, grasslands, open woodlands.  | May – August                                   | Scarce (Nb)                  |
| <b>MUTILLIDAE</b>                              |                   |                     |  |  |                              |
| <i>Myrmosa atra</i>                            | 2                 | 2008                | Dry, sandy places  | Mainly mid-summer                              | Widespread                   |
| <b>SAPYRIDAE</b>                               |                   |                     |  |  |                              |
| <i>Sapyga quinquepunctata</i>                  | 3                 | 2007                | Wide variety including gardens.  | May – July                                     | Widespread                   |
| <b>FORMICIDAE</b>                              |                   |                     |  |  |                              |
| <i>Formica fusca</i>                           | 86                | 2017                | Open woodland, heaths, moorland  | Queens/males July – August                     | Widespread                   |
| <i>Formica rufa</i>                            | 105               | 2017                | Wyre Forest, Ankerdine Common, Shrawley & Trench Woods.  | January – mid-October                          | Common in suitable habitats. |
| <i>Formica sanguinea</i>                       | 30                | 2017                | Sandy soil in open woodland/heathland.   | Queens/males July – August                     | Scarce (Nb)                  |
| <i>Formicoxenus nitidulus</i>                  |                   |                     | Commensal with wood ants   | Warm weather when host is active               | Locally common               |
| <i>Lasius alienus</i>                          | 17                | 2017                | Heaths & open pastures   | Queens/males August                            | Widespread                   |
| <i>Lasius brunneus</i>                         | 101               | 2016                | Mature jiving trees, hedgerows, timber framed buildings.   | Queens/males June – July                       | Widespread                   |
| <i>Lasius flavus</i>                           | 102               | 2017                | Old pastures   |  |                              |
| <i>Lasius fuliginosus</i>                      | 43                | 2016                | Old trees, hedgerows, dead timber  | Uncertain. Nests active late March – September | Widespread                   |
| <i>Lasius mixtus</i>                           | 3                 | 2013                | Under ground, under boulders.  | Queens/males July – September                  |                              |
| <i>Lasius niger</i> (s.s. & s.l.) <sup>3</sup> | 179               | 2017                | Grassland, underground, under slabs etc.   | Queens/males July/August                       | Widespread                   |
| <i>Lasius platythorax</i> <sup>4</sup>         | 12                | 2016                | May overlap with <i>L. niger</i> but prefers cooler, damper conditions. Avoids human habitation. | Queens/males July/August                       |                              |
| <i>Lasius psammophilus</i>                     | 3                 | 2007                | Dry, sandy soils   | Queens/males July/August                       | Widespread                   |
| <i>Lasius umbratus</i>                         | 4                 | 2015                | Around nests of <i>L. niger</i>  | Queens/males July - September                  |                              |
| <i>Leptothorax acervorum</i>                   | 15                | 2016                | Wide variety in undisturbed, mature sites  | Males/queens mid-summer                        | Widespread                   |
| <i>Temnothorax nylanderii</i>                  | 18                | 2016                | Sticks, rotting branches, tree stumps, under bark.   | Queens/males – July August                     | Widespread                   |
| <i>Myrmica lobicornis</i>                      | 2                 | 2015                | Lowland heaths, rough grassland, open woodlands  | Queens and males – September                   | Widespread                   |
| <i>Myrmica rubra</i>                           | 116               | 2017                | Under ground, under stones   | Queens/males – August                          | Widespread                   |
| <i>Myrmica ruginodis</i>                       | 122               | 2017                | Open places in woodland, under stones, in tree stumps  | Queens/males – August                          | Widespread                   |
| <i>Myrmica sabuleti</i>                        | 7                 | 2015                | Under stones in heathland  | Queens/males - ? July                          | Widespread                   |
| <i>Myrmica scabrinodis</i>                     | 10                | 2016                | Dry banks, tree stumps   | Queens/males - August                          | Widespread                   |
| <i>Myrmecina graminicola</i>                   | 1                 | 2001                | Grassland, open woodland rides, fallen wood, old tree stumps.                                    | Queens/males – August – October                | Widespread                   |

|                                   |     |      |  |  |             |
|-----------------------------------|-----|------|--|--|-------------|
| <b>POMPIDAE</b>                   |     |      |  |  |             |
| <i>Anoplius caviventris</i>       | 2   | 2011 | Rough vegetation with hollow stems                   | May – September  | Scarce (Nb) |
| <i>Anoplius concinnus</i>         | 2   | 2011 | Banks of streams, and ponds in sand & gravel pits    | June – September   | Widespread  |
| <i>Anoplius infuscatus</i>        | 3   | 2011 | Moist sand   | June – September   | Widespread  |
| <i>Anoplius migerrimus</i>        | 8   | 2016 | Widespread   | May – September  | Widespread  |
| <i>Arachnospila anceps</i>        | 4   | 2003 | Wide range of habitats                               | May – September  | Widespread  |
| <i>Arachnospila spissa</i>        | 2   | 2014 | Wide range of habitats                               | May – August   | Widespread  |
| <i>Arachnospila trivialis</i>     | 1   | 1997 | Sandy soils on heaths and the coast                  | May – August   | Widespread  |
| <i>Arachnospila wesmaeli</i>      | 1   | 1997 | Sand dunes and heaths                                | May – September  | Scarce (Na) |
| <i>Dipogon subintermedius</i>     | 6   | 2015 | Woodland and hedgerows with dead wood.               | June – September   | Widespread  |
| <i>Dipogon variegatus</i>         | 2   | 2013 | Wide range of open habitats.                         | May – October  | Widespread  |
| <i>Episyron rufipes</i>           | 3   | 2013 | Sandy sites – inland heaths & grassland              | May – September  | Widespread  |
| <i>Evagetes crassicornis</i>      | 6   | 2015 | Areas of open ground                                 | May – September  | Widespread  |
| <i>Evagetes dubius</i>            | 1   | 2004 | Heathland (record from Hartlebury Common)            | May – September  | Scarce (Nb) |
| <i>Pompilus cinereus</i>          | 2   | 2005 | Sandy heaths   | May – September  | Widespread  |
| <i>Priocnemis agilis</i>          | 1   | 2003 | Dry grasslands                                       | June – September   | Scarce (Nb) |
| <i>Priocnemis coriacea</i>        | 1   | 2003 | Light soils, downlands and heaths                    | April – August   | Scarce (Na) |
| <i>Priocnemis exaltata</i>        | 10  | 2013 | Wide range particularly dry grasslands               | May – September  | Widespread  |
| <i>Priocnemis femica</i>          | 1   | 2003 | Wide variety   | June – September   | Widespread  |
| <i>Priocnemis gracilis</i>        | 1   | 2003 | Clay soils in woodland and open ground               | June – September   | Scarce (Nb) |
| <i>Priocnemis hyalinata</i>       | 2   | 1996 | Sites with well drained soils.                       | June – September   | Scarce (Nb) |
| <i>Priocnemis parvula</i>         | 5   | 2008 | Areas with sandy soils                               | June – September   | Widespread  |
| <i>Priocnemis perturbatos</i>     | 14  | 2008 | Wide variety, specially open woodland                | April – July   | Widespread  |
| <i>Priocnemis pusilla</i>         | 1   | 2005 | Wide variety with light soils                        | June – September   | Widespread  |
| <i>Priocnemis susteri</i>         | 3   | 2009 | Open woodlands on drier soils                        | April – August   | Widespread  |
| <b>VESPIDAE</b>                   |     |      |  |  |             |
| <b>Eumeninae</b>                  |     |      |  |  |             |
| <i>Ancistrocerus gazella</i>      | 9   | 2016 | Open sites on sandy soil                             | May – September  | Widespread  |
| <i>Ancistrocerus nigricornis</i>  | 17  | 2016 | Wide variety   | February – October (females)<br>June – September (males) | Widespread  |
| <i>Ancistrocerus parietinus</i>   | 6   | 2010 | Wide variety   | April – September  | Widespread  |
| <i>Ancistrocerus parietum</i>     | 2   | 2012 | Wide variety   | May – October  | Widespread  |
| <i>Ancistrocerus trifasciatus</i> | 6   | 2010 | Wide variety often on marshy places                  | May – September  | Widespread  |
| <i>Odynerus melanocephalus</i>    | 1   | 2006 | Grassland, heaths, disturbed ground on clayey soils. | May – August   | Scarce (Na) |
| <i>Odynerus spinipes</i>          | 6   | 2010 | Wide variety with vertical banks for nesting.        | May – August   | Widespread  |
| <i>Symmorphus bifasciatus</i>     | 7   | 2011 | Vegetation in damp places. Full sun.                 | June – August  | Widespread  |
| <i>Symmorphus connexus</i>        | 5   | 2008 | Vegetation in damp places. Full sun                  | May – August   | Rare (RDB3) |
| <i>Symmorphus gracilis</i>        | 10  | 2016 | Vegetation in damp places. Full sun.                 | May – August   | Widespread  |
| <b>Vespiniae</b>                  |     |      |  |  |             |
| <i>Dolichovespula media</i>       | 33  | 2015 | Almost anywhere                                      | April – September  | Widespread  |
| <i>Dolichovespula norvegica</i>   | 7   | 2010 | Almost anywhere                                      | April – October  | Widespread  |
| <i>Dolichovespula saxonica</i>    | 26  | 2014 | Almost anywhere                                      | April – August   | Widespread  |
| <i>Dolichovespula sylvestris</i>  | 15  | 2013 | Almost anywhere                                      | May – September  | Widespread  |
| <i>Vespa crabro</i>               | 121 | 2016 | Widely distributed                                   | April – October  | Widespread  |
| <i>Vespa germanica</i>            | 32  | 2014 | Almost anywhere                                      | March – November   | Widespread  |
| <i>Vespa rufa</i>                 | 8   | 2010 | Open spaces for underground nesting                  | March – September  | Widespread  |
| <i>Vespa vulgaris</i>             | 76  | 2016 | Almost anywhere                                      | March – November   | Widespread  |
| <b>SPHECIDAE</b>                  |     |      |  |  |             |
| <i>Ammophila pubescens</i>        | 11  | 2016 | Dry heathland  | June – August  | Scarce      |
| <i>Ammophila sabulosa</i>         | 25  | 2013 | Heathland and dunes                                  | May – September  | Widespread  |
| <b>CRABRONIDAE</b>                |     |      |  |  |             |
| <b>Astatinae</b>                  |     |      |  |  |             |
| <i>Astata boops</i>               | 3   | 2008 | Sandy heaths & dry clay banks in woodland            | June – August  | Widespread  |
| <i>Dtyudella pinguis</i>          | 1   | 1993 | Dunes and inland heaths                              | May – August   | Widespread  |
| <b>Larrinae</b>                   |     |      |  |  |             |
| <i>Tachysphex pompiliformis</i>   | 6   | 2009 | Sandy localities                                     | May – September  | Widespread  |
| <i>Trypoxylon attenuatum</i>      | 6   | 2015 | Open sites with dead wood and hollow stems           | May – September  | Widespread  |
| <i>Trypoxylon clavicerum</i>      | 3   | 2015 | Sites with beetle holes and hollow stems             | May – 1 September  | Widespread  |
| <i>Trypoxylon figulus</i>         | 5   | 2010 | Sites with beetle holes and hollow stems             | May – October  | Widespread  |
| <b>Crabroninae</b>                |     |      |  |  |             |
| <i>Crabro cribrarius</i>          | 10  | 2015 | Dry heaths, land slips etc.                          | June – September   | Widespread  |
| <i>Crabro peltarius</i>           | 6   | 2011 | Sites with light sandy soils                         | May – August   | Widespread  |
| <i>Crossocerus annulipes</i>      | 8   | 2007 | Wide variety   | May – September  | Widespread  |
| <i>Crossocerus binotatus</i>      | 1   | 2002 | Site with dead wood and timber                       | June – September   | Scarce (Nb) |

|                                    |    |      |   |                      |             |
|------------------------------------|----|------|---|----------------------|-------------|
| <i>Crossocerus cetratus</i>        | 3  | 2008 | Sites with dead wood & hollow plant stems                                   | May – August         | Widespread  |
| <i>Crossocerus dimidiatus</i>      | 2  | 2002 | Sites   |                      | Widespread  |
| <i>Crossocerus elongatulus</i>     | 3  | 2013 | Open sunny situations in scrub & woodland edge                              | May – September      | Widespread  |
| <i>Crossocerus megacephalus</i>    | 11 | 2011 | Wide variety  | May – September      | Widespread  |
| <i>Crossocerus nigritus</i>        | 1  | 2008 | Wide variety  | May – July           | Widespread  |
| <i>Crossocerus ovalis</i>          | 3  | 2013 | Sites with sandy soils  |                      | Widespread  |
| <i>Crossocerus podagricus</i>      | 6  | 2011 | Wide variety  | May – September      | Widespread  |
| <i>Crossocerus pusillus</i>        | 3  | 2005 | Wide variety  | June – August        | Widespread  |
| <i>Crossocerus quadrimaculatus</i> | 19 | 2013 | Sites with sandy soils  | May – September      | Widespread  |
| <i>Crossocerus styrius</i>         | 3  | 2009 | Damp woodland, dappled shade along river corridors                          | Uncertain            | Widespread  |
| <i>Crossocerus wesmaeli</i>        | 5  | 2013 | Sites with sandy soils  | May – September      | Widespread  |
| <i>Ectemnius cavifrons</i>         | 11 | 2016 | Sites with dead wood in sunny situations                                    | June – October       | Widespread  |
| <i>Ectemnius cephalotes</i>        | 22 | 2016 | Sites with dead wood  | June – September     | Widespread  |
| <i>Ectemnius continuus</i>         | 37 | 2014 | Wide variety  | May – September      | Widespread  |
| <i>Ectemnius dives</i>             | 3  | 2013 | Open situations with dead wood & umbellifers                                | May – September      | Scarce      |
| <i>Ectemnius lapidarius</i>        | 8  | 2007 | Wide variety  | May – September      | Widespread  |
| <i>Ectemnius lituratus</i>         | 17 | 2009 | Wide variety with dead wood & umbellifers                                   | June – September     | Widespread  |
| <i>Ectemnius rubicola</i>          | 1  | 2003 | Wide variety of open areas  | May – September      | Widespread  |
| <i>Ectemnius ruficornis</i>        | 1  | 2006 | Woodland with dead wood & umbellifers                                       | May – September      | Scarce (Nb) |
| <i>Ectemnius sexinctus</i>         | 2  | 2001 | Wide variety with dead wood & umbellifers                                   | May – September      | Scarce (Nb) |
| <i>Limdenius albilabris</i>        | 21 | 2016 | Wide variety  | May – August         | Widespread  |
| <i>Rhopalum clavipes</i>           | 1  | 1997 | Wide variety where hollow stems are available                               | May – August         | Widespread  |
| <i>Rhopalum coarctatum</i>         | 1  | 2015 | Sites with dead wood & hollow stems   | May – September      | Widespread  |
| <i>Oxybelus argentatus</i>         | 7  | 2017 | Sandy heaths  | June – August        | Scarce (Na) |
| <i>Oxybelus mandibularis</i>       | 1  | 2008 | Dry heaths  | June – August        | Scarce (Na) |
| <i>Oxybelus uniglumis</i>          | 12 | 2013 | Open sandy situations   | June - September     | Widespread  |
| <i>Mimumesa dahlbomi</i>           | 3  | 2008 | Wide variety with dead wood   | May – September      | Widespread  |
| <i>Mimesa equestris</i>            | 4  | 2008 | Wide variety  | July – October       | Widespread  |
| <i>Mimesa lutaria</i>              | 2  | 1995 | Open habitats with light soils  | June – September     | Widespread  |
| <i>Psenulus concolor</i>           | 2  | 2006 | Wide variety. Requires hollow stems.  | May – August         | Widespread  |
| <i>Psenulus pallipes</i>           | 3  | 2006 | Wide variety. Requires hollow stems or holes in dead wood.                  | July – October       | Widespread  |
| <b>Pemphredoninae</b>              |    |      |   |                      |             |
| <i>Passaloecus corniger</i>        | 1  | 1992 | Wide variety with old trees and posts                                       | May – September      | Widespread  |
| <i>Passaloecus gracilis</i>        | 2  | 2007 | Wide variety with old timber  | May – September      | Widespread  |
| <i>Passaloecus insignis</i>        | 2  | 2016 | Open habitats   | May – September      | Widespread  |
| <i>Passaloecus singularis</i>      | 4  | 2004 | Wide variety  | May – September      | Widespread  |
| <i>Pemphredon inornata</i>         | 4  | 2014 | Wide variety with dead wood or bramble stems                                | May – September      | Widespread  |
| <i>Pemphredon lethifer</i>         | 2  | 2006 | Wide variety with dead wood or hollow stems.                                | May – October        | Widespread  |
| <i>Pemphredon lugbris</i>          | 11 | 2012 | Wide variety with dead wood or hollow stems                                 | May – September      | Widespread  |
| <i>Pemphredon morio</i>            | 1  | 1991 | Widespread with dead wood or hollow stems                                   | June – August        | Scarce (Nb) |
| <b>Nyssoninae</b>                  |    |      |   |                      |             |
| <i>Argogorytes fargei</i>          | 2  | 2006 | Open habitats on light soils  | May – August         | Scarce (Na) |
| <i>Argogorytes mystaceus</i>       | 23 | 2015 | Sunny places on many soil types. Associated with woodland glades and edges. | April – June         | Widespread  |
| <i>Didineis lunicornis</i>         | 1  | 2004 | Wide range with cracks in clay or clay rich soils                           | July – October       | Scarce (Na) |
| <i>Gorytes laticinctus</i>         | 1  | 2014 | Sites with light soils  | June – August        | RDB3        |
| <i>Gorytes quadrifasciatus</i>     | 1  | 2015 | Sandy areas   | June – September     | Widespread  |
| <b>Philanthinae</b>                |    |      |   |                      |             |
| <i>Cerceris arenaria</i>           | 25 | 2016 | Sites with sandy soils  | June – August        | Widespread  |
| <i>Cerceris rybensis</i>           | 30 | 2016 | Mainly sites with sandy soils   | June – September     | Widespread  |
| <i>Philanthus triangulum</i>       | 19 | 2017 | Sandy heaths and sites with light friable soils                             | July – September     | Widespread  |
| <b>APIDAE</b>                      |    |      |   |                      |             |
| <b>Colletinae</b>                  |    |      |   |                      |             |
| <b>Colletes</b>                    |    |      |   |                      |             |
| <i>Colletes cucicularius</i>       | 1  | 2011 | Sand dune systems   | April & May          | RDB3        |
| <i>Colletes daviesanus</i>         | 10 | 2016 | Wide variety including gardens  | June – September     | Widespread  |
| <i>Colletes fodiens</i>            | 5  | 2011 | Hedges & edge habitats on sandy sites                                       | June – September     | Widespread  |
| <i>Colletes hederiae</i>           | 74 | 2017 | Short grassland with ivy nearby   | September – November | Widespread  |
| <i>Colletes similis</i>            | 3  | 2013 | Wide variety  | June – September     | Widespread  |
| <i>Colletes succinctus</i>         | 9  | 2013 | Dr heaths & moorlands   | July – September     | Widespread  |

|                                     |     |      |  |  |             |
|-------------------------------------|-----|------|--|--|-------------|
| <b>Hylaeus</b>                      |     |      |  |  |             |
| <i>Hylaeus annularis</i>            | 5   | 2012 | Calcareous grassland                                   | June – August                            | Widespread  |
| <i>Hylaeus brevicornis</i>          | 14  | 2015 | Wide variety   | May – September                          | Widespread  |
| <i>Hylaeus communis</i>             | 22  | 2016 | Sites with dead wood including gardens                 | May – September                          | Widespread  |
| <i>Hylaeus confuses</i>             | 2   | 2012 | Woodland. Nests in dead wood, masonry & in the ground. | May – September                          | Widespread  |
| <i>Hylaeus hyalinatus</i>           | 2   | 2010 | Sandy areas  | May – September                          | Widespread  |
| <i>Hylaeus pictipes</i>             | 3   | 2012 | Open woodland. Occasionally gardens                    | June – August                            | Scarce (Na) |
| <i>Hylaeus signatus</i>             | 5   | 2014 | Areas with sandy or light soils                        | June – September                         | Widespread  |
| <b>Andreninae</b>                   |     |      |  |  |             |
| <i>Andrena angustior</i>            | 15  | 2014 | Heathy woodland  | April – June                             | Widespread  |
| <i>Andrena apicata</i>              | 5   | 2016 | Open deciduous woodland                                | March – May                              | Scarce (Nb) |
| <i>Andrena argentata</i>            | 1   | 2013 | Ericaceous heaths                                      | July – September                         | Scarce (Na) |
| <i>Andrena barbilabris</i>          | 10  | 2013 | Areas of sandy soils                                   | April – June                             | Widespread  |
| <i>Andrena bicolour</i>             | 46  | 2016 | Very wide range  | March – August (bivoltine)               | Widespread  |
| <i>Andrena bimaculata</i>           | 7   | 2016 | Areas with light soils                                 | Bivoltine. March – May: July - August    | Scarce (Nb) |
| <i>Andrena bucephala</i>            | 9   | 2016 | Scrub edge   | April – May                              | Scarce (Nb) |
| <i>Andrena chrysoseles</i>          | 75  | 2017 | Woodland clearings                                     | April – June                             | Widespread  |
| <i>Andrena cineraria</i>            | 114 | 2017 | Open areas on sandy soils                              | March – June                             | Widespread  |
| <i>Andrena clatkella</i>            | 6   | 2016 | Open woodland, heaths, sand & gravel pits              | February – May                           | Widespread  |
| <i>Andrena congruens</i>            | 5   | 2010 | Scrub edge, bare ground                                | Bivoltine – March – May: July – August   | Scarce (Na) |
| <i>Andrena denriculata</i>          | 3   | 2008 | Open grassland with sandy soils                        | July – September                         | Widespread  |
| <i>Andrena dorsata</i>              | 32  | 2016 | Scrub edge   | Bivoltine. April – May: July – September | Widespread  |
| <i>Andrena falsifica</i>            | 1   | 2009 | Heaths and heathy woodland on light soils              | April – July                             | Scarce (Na) |
| <i>Andrena flavipes</i>             | 57  | 2017 | Open situations on clay-based or sandy soil            | Bivoltine. March – July: July – August   | Widespread  |
| <i>Andrena fucata</i>               | 10  | 2015 | Heaths and woodland                                    | May – July                               | Widespread  |
| <i>Andrena fulva</i>                | 60  | 2015 | Open grasslands including parks and lawns              | March – June                             | Widespread  |
| <i>Andrena fulvago</i>              | 4   | 2016 | Open grasslands  | May – July                               | Scarce (Na) |
| <i>Andrena fuscipes</i>             | 6   | 2013 | Ericaceous heaths                                      | July – September                         | Widespread  |
| <i>Andrena haemorrhhoa</i>          | 91  | 2017 | Scrub and meadows                                      | March – June                             | Widespread  |
| <i>Andrena helvola</i>              | 14  | 2016 | Woodland edge & meadows                                | March – June                             | Widespread  |
| <i>Andrena humilis</i>              | 9   | 2016 | Grasslands with legumes                                | April – June                             | Widespread  |
| <i>Andrena labialis</i>             | 19  | 2015 | Grasslands with legumes                                | May – July                               | Widespread  |
| <i>Andrena labiata</i>              | 6   | 2015 | Open grassland, scrub & woodland edge                  | May – June                               | Scarce (Na) |
| <i>Andrena lapponica</i>            | 3   | 2008 | Woodlands & moors with bilberry                        | April – June                             | Widespread  |
| <i>Andrena marginata</i>            | 2   | 2010 | Calcareous grassland, heaths, moors, woodland          | July – September                         | Scarce (Na) |
| <i>Andrena minutula</i>             | 41  | 2016 | Very wide range  | Bivoltine. March – April: May – August   | Widespread  |
| <i>Andrena nigriceps</i>            | 1   | 1995 | Tall grassland with Asteraceae                         | June - August                            | Scarce (Na) |
| <i>Andrena nigroaenea</i>           | 30  | 2016 | Very wide range  | Bivoltine. March – June: July – August   | Widespread  |
| <i>Andrena nigrospina</i>           | 38  | 2016 | Various  | May – June                               | Uncertain   |
| <i>Andrena ovatulata</i>            | 15  | 2016 | Heaths and grasslands                                  | Bivoltine, April – May: June – September | Widespread  |
| <i>Andrena praecox</i>              | 16  | 2016 | Heaths & open woodland with willow                     | March – May                              | Widespread  |
| <i>Andrena scotica</i> <sup>5</sup> | 89  | 2017 | Wide range on light, sandy soils                       | March – July                             | Widespread  |
| <i>Andrena semilaevis</i>           | 10  | 2016 | Wide range on light, sandy soils                       | May – August                             | Widespread  |
| <i>Andrena similis</i>              | 5   | 2016 | Grassland and scrub edge                               | April – June                             | Scarce (Nb) |
| <i>Andrena subopaca</i>             | 46  | 2017 | Woodland   | April – June                             | Widespread  |
| <i>Andrena synadelpha</i>           | 11  | 2016 | Woodland scrub   | April – June                             | Widespread  |
| <i>Andrena tarsata</i>              | 2   | 2016 | Heaths and moorland                                    | July – August                            | Widespread  |
| <i>Andrena thoracica</i>            | 1   | 2003 | Open sandy heaths with vertical banks                  | Bivoltine. March – May: July – August    | Widespread  |
| <i>Andrena tibialis</i>             | 2   | 2007 | Grassland and scrub edge                               | March – May                              | Widespread  |
| <i>Andrena trimmerana</i>           | 12  | 2016 | Grassland and scrub                                    | Bivoltine. March – April: July – August  | Widespread  |
| <i>Andrena varians</i>              | 2   | 2008 | Scrub, particularly blackthorn                         | March – June                             | Scarce (Nb) |
| <i>Andrena wilkella</i>             | 43  | 2015 | Grasslands   | May – July                               | Widespread  |
| <b>Halictinae</b>                   |     |      |  |  |             |
| <i>Halictus confuses</i>            | 2   | 2007 | Sandy heaths   | May – September                          | RDB3        |
| <i>Halictus rubicundus</i>          | 9   | 2016 | Wide variety with vertical banks                       | April – October                          | Widespread  |
| <i>Halictus tumulorum</i>           | 24  | 2016 | Open habitats on sandy or calcareous soils             | March – October                          | Widespread  |
| <i>Lasioglossum albipes</i>         | 45  | 2016 | Wide variety   | April – October                          | Widespread  |
| <i>Lasioglossum brevicorne</i>      | 4   | 2004 | Various on clay based or sandy soils                   | May – August                             | RDB3        |
| <i>Lasioglossum calceatum</i>       | 81  | 2017 | Various  | April – October                          | Widespread  |
| <i>Lasioglossum cupromicans</i>     | 5   | 2015 | Woodland and moors                                     | April – October                          | Widespread  |
| <i>Lasioglossum fratellum</i>       | 8   | 2012 | Moors and sandy heaths                                 | April - September                        | Widespread  |
| <i>Lasioglossum fulvicorne</i>      | 17  | 2017 | Short grassland on calcareous soils.                   | March – September                        | Widespread  |

|                                    |    |       |  |                            |                      |
|------------------------------------|----|-------|--|----------------------------|----------------------|
| <i>Lasioglossum laevigatum</i>     | 9  | 2017  | Grassland and open woodland on calcareous soils                  | April – September          | Widespread           |
| <i>Lasioglossum lativentre</i>     | 19 | 2012  | Grassland and heathland  | March – October            | Widespread           |
| <i>Lasioglossum leucopus</i>       | 35 | 2017  | Wide variety   | May – October              | Widespread           |
| <i>Lasioglossum leucozonium</i>    | 23 | 20-15 | Open areas on sandy or calcareous soils                          | March – November           | Widespread           |
| <i>Lasioglossum malachurum</i>     | 46 | 2017  | Quarries, commons, gardens, chalk grassland                      | April – October            | Widespread           |
| <i>Lasioglossum minutissimum</i>   | 16 | 2015  | Wide variety   | May – August               | Widespread           |
| <i>Lasioglossum morio</i>          | 36 | 2015  | Wide variety   | March – October            | Widespread           |
| <i>Lasioglossum nitidiusclum</i>   | 1  | 2001  | Sandy areas  | March – September          | Widespread           |
| <i>Lasioglossum parvulum</i>       | 3  | 2011  | Wide variety   | March – September          | Widespread           |
| <i>Lasioglossum paucillum</i>      | 30 | 2017  | Wide variety. Prefers chalk grassland & woodland                 | April – October            | Widespread           |
| <i>Lasioglossum punctatissimum</i> | 9  | 2016  | Sandy soils  | April – October            | Widespread           |
|                                    |    |       |  |                            |                      |
| <i>Lasioglossum quadrinotatum</i>  | 4  | 2008  | Various  | April – September          | Scarce (Na)          |
| <i>Lasioglossum rufitarse</i>      | 5  | 2016  | Various  | April – October            | Widespread           |
| <i>Lasioglossum smeathmanellum</i> | 6  | 2016  | Various  | March – September          | Widespread           |
| <i>Lasioglossum villosulum</i>     | 21 | 2017  | Various  | March – October            | Widespread           |
| <i>Lasioglossum xanthopus</i>      | 8  | 2012  | Mainly calcareous grassland                                      | April – August             | Scarce (Nb)          |
| <i>Lasioglossum zonulum</i>        | 5  | 2016  | Woodland rides   | April – October            | Widespread           |
| <i>Sphecodes crassus</i>           | 2  | 2011  | Various  | May – September            | Scarce (Nb)          |
| <i>Sphecodes ephippius</i>         | 19 | 2016  | Where <i>Lasioglossum</i> species occur                          | April – September          | Widespread           |
| <i>Sphecodes ferruginatus</i>      | 3  | 2013  | Grasslands   | May – September            | Scarce (Nb)          |
| <i>Sphecodes geoffrellus</i>       | 4  | 2016  | Where <i>Lasioglossum</i> species occur                          | April – September          | Widespread           |
| <i>Sphecodes gibbus</i>            | 7  | 2005  | Bare banks where <i>Lasioglossum</i> occur                       | April – September          | Widespread           |
| <i>Sphecodes hyalinatus</i>        | 1  | 991   | Grasslands   | May – September            | Widespread but local |
| <i>Sphecodes monilicornis</i>      | 34 | 2016  | Various where Halictinae occur                                   | April – October            | Widespread           |
| <i>Sphecodes niger</i>             | 3  | 2013  | Calcareous grasslands, heaths, land slips                        | April – October            | RDB3                 |
| <i>Sphecodes pellucidus</i>        | 16 | 2013  | Sandy soils  | April – August             | Widespread           |
| <i>Sphecodes puncticeps</i>        | 7  | 2013  | Various  | May – September            | Widespread but local |
| <i>Sphecodes reticulatus</i>       | 2  | 2002  | Various on light soils   | May – October              | Scarce (Na)          |
| <i>Sphecodes rubicundus</i>        | 3  | 2011  | Old herb rich grasslands & land slips                            | May – July                 | Scarce (Na)          |
| <b>Melittinae</b>                  |    |       |  |                            |                      |
| <i>Dasygoda hirtipes</i>           | 19 | 2016  | Heaths   | June – August              | Scarce               |
| <i>Melitta haemorrhoidalis</i>     | 2  | 1991  | Calcareous grasslands & woodland rides on chalk                  | July – August              | Scarce               |
| <i>Melitta leporina</i>            | 8  | 2017  | Open grasslands, occasionally gardens                            | June – August              | Widespread           |
| <b>Megachilinae</b>                |    |       |  |                            |                      |
| <i>Anthidium manicatum</i>         | 18 | 2015  | Various including rural & urban gardens                          | May – August               | Widespread           |
| <i>Chelostoma campanularum</i>     | 14 | 2015  | Anywhere with campanula species                                  | June – August              | Widespread           |
| <i>Chelostoma florissomne</i>      | 14 | 2016  | Associated with buttercups along woodland edge adjoining meadows | May – August               | Widespread           |
| <i>Coelioxys conoidea</i>          | 3  | 2011  | Heaths, landslips  | June – August              | Widespread           |
| <i>Coelioxys elongate</i>          | 3  | 2010  | Heaths, gardens, brown field sites                               | June – August              | Widespread           |
| <i>Coelioxys inermis</i>           | 3  | 2016  | Dunes, sandy heaths, gardens                                     | July – August              | Widespread           |
| <i>Coelioxys ruficens</i>          | 3  | 2016  | Wide range   | June – August              | Widespread           |
| <i>Hoplitis claviventris</i>       | 2  | 2002  | Wide range   | May – August               | Scarce (Nb)          |
| <i>Hoplitis spinulosa</i>          | 1  | 2007  | Neutral & calcareous grassland                                   | May – September            | Widespread           |
| <i>Megachile centuncularis</i>     | 10 | 2016  | Wide range   | June – August              | Widespread           |
| <i>Megachile ligniseca</i>         | 31 | 2016  | Wide range   | June – August              | Widespread           |
| <i>Megachile maritime</i>          | 6  | 2005  | Dunes and sandy heaths   | June – August              | Widespread           |
| <i>Megachile versicolor</i>        | 13 | 2015  | Wide range   | May – September            | Widespread           |
| <i>Megachile willughbiella</i>     | 32 | 2016  | Wide range   | June – August              | Widespread           |
| <i>Osmia aurulenta</i>             | 3  | 2007  | Calcareous grassland, land slips                                 | April – June               | Scarce (Na)          |
| <i>Osmia bicolor</i>               | 10 | 2013  | Calcareous grassland, Open woodland on chalk or limestone        | April – July               | Scarce (Nb)          |
| <i>Osmia bicornis</i>              | 67 | 2017  | Wide variety including gardens                                   | April – July               | Widespread           |
| <i>Osmia caerulescens</i>          | 6  | 2016  | Wide variety including gardens                                   | April – August             | Widespread           |
| <i>Osmia leaiana</i>               | 16 | 2016  | Wide variety with holes in dead wood or walls.                   | May – August               | Widespread           |
|                                    |    |       |  |                            |                      |
| <b>Anthophorinae</b>               |    |       |  |                            |                      |
| <i>Anthophora furcata</i>          | 9  | 2015  | Wide variety   | May – August               | Widespread           |
| <i>Anthophora plumipes</i>         | 90 | 2017  | Wide variety   | March – May                | Widespread           |
| <i>Anthophora quadrimaculata</i>   | 1  | 2010  | Mainly gardens with labiates                                     | June – August              | Scarce (Nb)          |
| <i>Nomada fabriciana</i>           | 42 | 2016  | Wide variety   | March – August (bivoltine) | Widespread           |
| <i>Nomada ferruginata</i>          | 4  | 2009  | Open woodland  | April – May                | RDB1                 |
| <i>Nomada flava</i>                | 53 | 2016  | Wide variety   | April – June               | Widespread           |

|                                     |     |      |   |                                 |                   |
|-------------------------------------|-----|------|---|---------------------------------|-------------------|
| <i>Nomada flavoguttata</i>          | 41  | 2016 | Wide variety  | March – August                  | Widespread        |
| <i>Nomada flavopicta</i>            | 8   | 2011 | Flower rich grassland   | June – September                | Scarce (Nb)       |
| <i>Nomada fucata</i>                | 38  | 2017 | Wide variety  | April – August                  | Scarce (Na)       |
| <i>Nomada fulvicornis</i>           | 14  | 2016 | Wide variety  | April – August                  | RDB3              |
| <i>Nomada goodeniana</i>            | 51  | 2016 | Wide variety  | April - August                  | Widespread        |
| <i>Nomada guttulata</i>             | 2   | 2016 | Open woodland and grassland                                   | May – June                      | RDB1              |
| <i>Nomada hirtipes</i>              | 5   | 2017 | Wide variety  | April – June                    | RDB3              |
| <i>Nomada integra</i>               | 4   | 2009 | Open grasslands   | May – July                      | Scarce (Na)       |
| <i>Nomada lathburiana</i>           | 35  | 2016 | Wide variety  | April – July                    | RDB3 <sup>6</sup> |
| <i>Nomada leucophthalma</i>         | 25  | 2016 | Heaths, moors, open woodland                                  | March – May                     | Widespread        |
| <i>Nomada marshamella</i>           | 19  | 2017 | Grassland, open areas in woodland                             | March – September               | Widespread        |
| <i>Nomada panzeri</i>               | 26  | 2014 | Wide variety  | April – June                    | Widespread        |
| <i>Nomada ruficornis</i>            | 14  | 2013 | Grasslands, open woodlands                                    | April – June                    | Widespread        |
| <i>Nomada rufipes</i>               | 17  | 2017 | Wide variety  | July – September                | Widespread        |
| <i>Nomada signata</i>               | 2   | 2014 | Grasslands, open woodlands                                    | April – May                     | RDB2              |
| <i>Nomada striata</i>               | 9   | 2014 | Grasslands, open woodlands                                    | May – July                      | Widespread        |
| <b>Apinae</b>                       |     |      |   |                                 |                   |
| <i>Bombus barbutellus</i>           | 9   | 2017 | Wide variety  | April – September               | Widespread        |
| <i>Bombus bohemicus</i>             | 13  | 2016 | Wide variety  | April – August                  | Widespread        |
| <i>Bombus campestris</i>            | 58  | 2017 | Wide variety  | April – September               | Widespread        |
| <i>Bombus hortorum</i>              | 176 | 2017 | Wide variety  | March – October                 | Widespread        |
| <i>Bombus humilis</i>               | 23  | 2017 | Tall, open grassland  | May - September                 | Widespread        |
| <i>Bombus hypnorum</i>              | 258 | 2017 | Wide variety  | March – October                 | Widespread        |
| <i>Bombus jonellus</i>              | 3   | 2015 | Wide variety  | March – September               | Widespread        |
| <i>Bombus lapidarius</i>            | 469 | 2017 | Wide variety  | March – September               | Widespread        |
| <i>Bombus lucorum</i> <sup>7</sup>  | 292 | 2017 | Wide variety  | March – October                 | Widespread        |
| <i>Bombus lucorum/terrestris</i>    | 237 | 2017 | Wide variety  | March – October                 | Widespread        |
| <i>Bombus pascuorum</i>             | 597 | 2017 | Wide variety  | March – October                 | Widespread        |
| <i>Bombus pratorum</i>              | 173 | 2017 | Wide variety  | March - August                  | Widespread        |
| <i>Bombus ruderarius</i>            | 23  | 2014 | Wide variety  | April – September               | Widespread        |
| <i>Bombus ruderatus</i>             | 21  | 2015 | River valleys with comfrey, yellow iris, marsh woundwort etc. | April – October                 | Scarce (Nb)       |
| <i>Bombus rupestris</i>             | 23  | 2014 | Unimproved grasslands   | May – July                      | Scarce (Nb)       |
| <i>Bombus sylvestris</i>            | 41  | 2017 | Wide variety  | March – September               | Widespread        |
| <i>Bombus terrestris</i>            | 321 | 2017 | Wide variety  | February – October <sup>8</sup> | Widespread        |
| <i>Bombus vestalis</i> <sup>9</sup> | 249 | 2017 | Wide variety  | April – September               | Widespread        |

**Notes:**

- Chrysis ignita*: Currently there is considerable taxonomic revision regarding this species. It is accepted that the term *C. ignita* covers other closely related species and, therefore, in this list it should be regarded as *C. ignita* agg. The final taxonomy for the group seems still to be agreed.
- Omalus aeneus*: There is a single record for this species hence confirmation of its presence in the county would be valuable.
- Lasius niger*: Taxonomic revision has recognised that the name *L. niger* covers two closely related species, *L. niger* s.s. and *L. platythorax*. Prior to this revision all records were given as *L. niger* which means that *L. platythorax* is almost certainly under recorded.
- L. alienus*: Two closely related species are now recognised, *L. alienus* and *L. psammophilus*. Morphologically they are very similar and it is probable that some *L. psammophilus* have been misidentified as *L. alienus*.
- Andrena scotica*: A taxonomic revision changed the name to *A. carantonica* which may be found in some literature. However, a misidentification was found and the name reverted to *A. scotica*.
- Nomada lathburiana*: This species was accorded RDB3 status. However, it appears to have increased in numbers and to have extended its range and its status should be revised.
- Bombus lucorum*: There has been extensive taxonomic revision along with studies of its morphology. It is now recognised that workers of this species cannot be reliably separated from those of *B. terrestris* and hence workers should only be recorded as *L. lucorum/terrestris*. Positive identification to species should only be made using males or queens. Furthermore, *B. lucorum* itself has been split into three species *B. lucorum* s.s., *B. cryptarum* and *B. magnus*. Since these may be difficult to identify in the field records should be made as *L. lucorum* s.l.
- Bombus terrestris*: The flight period for this species is generally as noted above. However, workers may be seen foraging during winter months in milder parts of the country.
- Bombus vestalis*: This species is morphologically very similar to *B. bohemicus* and care should be taken when making identification

in the field. It is likely that some *B. vestalis* are misidentified *B. bohemicus*.

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