

# **Sherwood Forest Hymenoptera 2014**

**Complete site species list and records from the late 1800's to 2013**

**Trevor and Dilys Pendleton January 2014**

# Sherwood Forest Hymenoptera

## Complete site species list and records from the late 1800's to 2013

### **Chrysididae**

#### **Chrysis** Linnaeus, 1761

<i>Chrysis angustula</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Chrysis ignita</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Pendleton, T.A. and Pendleton, D.T. 2006	Birklands West / Clipstone Old Qtr	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2010	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
<i>Chrysis impressa</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Chrysis ruddi</i>	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
<i>Chrysis rutiliventris</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79

#### **Elampus** Spinola, 1806

<i>Elampus panzeri</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Whiteley, D. 1990	Birklands West / Sherwood Heath	Ref: 79

#### **Trichrysis** Lichtenstein, 1876

<i>Trichrysis cyanea</i>	Donistorpe	Birklands and Bilhaugh	Ref: 1
	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Whiteley, D. 1989	Birklands West / Sherwood Heath	Ref: 79
	Pendleton, T.A. and Pendleton, D.T. 2012	Birklands West / Sherwood Heath	Ref: 36

### **Mutillidae**

#### **Mrymosinae** Panzer, 1801

<i>Myrmosa atra</i>	Pendleton, T.A. and Pendleton, D.T. 2012	Birklands West / Sherwood Heath	Ref: 36
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### **Formicidae**

#### **Formica** Linnaeus, 1758

<i>Formica fusca</i>	Donistorpe.	Birklands and Bilhaugh	Ref: 1
	Pendleton, T.A. and Pendleton, D.T. 2006	Birklands and Bilhaugh	Ref: 36
	Godfrey, A. 2006	Birklands West / Sherwood Heath	Ref: 108
	Pendleton, T.A. and Pendleton, D.T. 2007	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2008	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2009	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2010	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
	Pendleton, T.A. and Pendleton, D.T. 2012	Birklands West / Sherwood Heath	Ref: 128
	Pendleton, T.A. and Pendleton, D.T. 2012	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2012	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2012	Birklands West / Clipstone Old Qtr	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2013	Birklands West / Sherwood Heath	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2013	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2013	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2013	Birklands West / Clipstone Old Qtr	Ref: 36
<i>Formica lemani</i>	Whiteley, D. 1989	Birklands West / Sherwood Heath	Ref: 79
	Whiteley, D. 1990	Birklands West / Sherwood Heath	Ref: 79
	Denton, M.L. 2007	Birklands and Bilhaugh	Ref: 79
	Pendleton, T.A. and Pendleton, D.T. 2008	Birklands and Bilhaugh / Budby SF	Ref: 36

#### **Lasius** Fabricius, 1804

<i>Lasius alienus</i>	Pendleton, T.A. and Pendleton, D.T. 2010	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
<i>Lasius flavus</i>	Godfrey, A. 2003	Birklands West / Sherwood Heath	Ref: 104
	Godfrey, A. 2006	Birklands West / Sherwood Heath	Ref: 108
	Pendleton, T.A. and Pendleton, D.T. 2008	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2009	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2010	Birklands West / Sherwood Heath	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands West / Sherwood Heath	Ref: 36



	Pendleton, T.A. and Pendleton, D.T. 2013	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2013	Birklands West / Clipstone Old Qtr	Ref: 36
<i>Myrmica sabuleti</i>	Godfrey, A. 2006	Birklands West / Sherwood Heath	Ref: 108
	Pendleton, T.A. and Pendleton, D.T. 2010	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
	Pendleton, T.A. and Pendleton, D.T. 2012	Birklands West / Sherwood Heath	Ref: 128
	Pendleton, T.A. and Pendleton, D.T. 2013	Birklands West / Sherwood Heath	Ref: 36
<i>Myrmica scabrinodis</i>	Godfrey, A. 2006	Birklands West / Sherwood Heath	Ref: 108
<b>Pompilidae</b>			
<b>Arachnospila</b> Kincaid, 1900			
<i>Arachnospila anceps</i>		Birklands West / Sherwood Heath	Ref: 1
	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
	Pendleton, T.A. and Pendleton, D.T. 2013	Birklands and Bilhaugh	Ref: 36
<i>Arachnospila spissa</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
	Pendleton, T.A. and Pendleton, D.T. 2013	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2013	Birklands and Bilhaugh	Ref: 36
<b>Dipogon</b> Fox, 1897			
<i>Dipogon subintermedius</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Dipogon variegatus</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<b>Evagetes</b> Lepeletier, 1845			
<i>Evagetes crassicornis</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Whiteley, D. 1989	Birklands West / Sherwood Heath	Ref: 79
<b>Priocnemis</b> Schiødte, 1837			
<i>Priocnemis fennica</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Priocnemis parvula</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Whiteley, D. 1989	Birklands West / Sherwood Heath	Ref: 79
<i>Priocnemis schiødteii</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Whiteley, D. 2001	Birklands West / Sherwood Heath	Ref: 79
<i>Priocnemis susterai</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<b>Eumenidae</b>			
<b>Ancistrocerus</b> Wesmael, 1836			
<i>Ancistrocerus trifasciatus</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
<b>Vespidae</b>			
<b>Dolichovespula</b> Rohwer, 1916			
<i>Dolichovespula media</i>	Pendleton, T.A. and Pendleton, D.T. 2008	Birklands West / Clipstone Old Qtr	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2009	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2010	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh	Ref: 36
<i>Dolichovespula sylvestris</i>		Birklands and Bilhaugh	Ref: 1
	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<b>Vespa</b> Linnaeus, 1758			
<i>Vespa crabro</i> ssp <i>vexator</i>	Archer, M. 1986	Birklands and Bilhaugh	Ref: 79
	Archer, M. 1986	Birklands and Bilhaugh / Budby SF	Ref: 79
	Whiteley, D. 1998	Birklands and Bilhaugh / Buck Gates	Ref: 79
	Wright, S. 1999	Birklands and Bilhaugh / Budby SF	Ref: 79
	Pendleton, T.A. and Pendleton, D.T. 2006	Birklands and Bilhaugh	Ref: 36
	Whiteley, D. 2001	Birklands and Bilhaugh / Budby SF	Ref: 79
	Whiteley, D. 2003	Birklands and Bilhaugh	Ref: 79
	Godfrey, A. 2003	Birklands West / Sherwood Heath	Ref: 104

Pendleton, T.A. and Pendleton, D.T. 2006	Birklands and Bilhaugh	Ref: 36
Godfrey, A. 2006	Birklands West / Sherwood Heath	Ref: 108
Pendleton, T.A. and Pendleton, D.T. 2007	Birklands and Bilhaugh	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2008	Birklands and Bilhaugh / Budby SF	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2008	Birklands and Bilhaugh	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2008	Birklands West / Clipstone Old Qtr	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2009	Birklands and Bilhaugh	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2009	Birklands West / Clipstone Old Qtr	Ref: 36
Binding, A. 2009	Birklands and Bilhaugh / Budby SF	Ref: 79
Budworth, D. et al	Birklands and Bilhaugh	Ref: 120
Pendleton, T.A. and Pendleton, D.T. 2010	Birklands and Bilhaugh / Budby SF	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2010	Birklands and Bilhaugh	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2011	Birklands West / Clipstone Old Qtr	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
Pendleton, T.A. and Pendleton, D.T. 2012	Birklands and Bilhaugh	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2012	Birklands West / Clipstone Old Qtr	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2013	Birklands and Bilhaugh / Budby SF	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2013	Birklands and Bilhaugh	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2013	Birklands West / Clipstone Old Qtr	Ref: 36

**Vespula** Thompson, 1869

*Vespula germanica*

Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
Godfrey, A. 2003	Birklands West / Sherwood Heath	Ref: 104
Pendleton, T.A. and Pendleton, D.T. 2006	Birklands and Bilhaugh	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2008	Birklands and Bilhaugh	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2008	Birklands West / Clipstone Old Qtr	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2009	Birklands and Bilhaugh	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2009	Birklands West / Clipstone Old Qtr	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2009	Birklands and Bilhaugh / Budby SF	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2010	Birklands and Bilhaugh	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 36

*Vespula rufa*

Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
Pendleton, T.A. and Pendleton, D.T. 2005	Birklands and Bilhaugh / Budby SF	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2008	Birklands and Bilhaugh / Budby SF	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2010	Birklands and Bilhaugh / Budby SF	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119

*Vespula vulgaris*

Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
Pendleton, T.A. and Pendleton, D.T. 2006	Birklands and Bilhaugh	Ref: 36
Godfrey, A. 2006	Birklands West / Sherwood Heath	Ref: 108
Pendleton, T.A. and Pendleton, D.T. 2007	Birklands and Bilhaugh	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2008	Birklands and Bilhaugh / Budby SF	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2008	Birklands and Bilhaugh	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2008	Birklands West / Clipstone Old Qtr	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2009	Birklands and Bilhaugh	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2009	Birklands West / Clipstone Old Qtr	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2010	Birklands and Bilhaugh / Budby SF	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2010	Birklands and Bilhaugh	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2011	Birklands West / Clipstone Old Qtr	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
Pendleton, T.A. and Pendleton, D.T. 2012	Birklands and Bilhaugh	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2012	Birklands West / Sherwood Heath	Ref: 128
Pendleton, T.A. and Pendleton, D.T. 2012	Birklands West / Clipstone Old Qtr	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2013	Birklands and Bilhaugh	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2013	Birklands West / Clipstone Old Qtr	Ref: 36

**Sphecidae**

**Ammophila** Kirby, 1798

*Ammophila pubescens*

Pendleton, T.A. and Pendleton, D.T. 2006	Birklands West / Clipstone Old Qtr	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119

*Ammophila sabulosa*

1984	Birklands and Bilhaugh	Ref: 80
Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
Pendleton, T.A. and Pendleton, D.T. 2009	Birklands and Bilhaugh	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119

**Argogorytes** Ashmead, 1899

*Argogorytes mystaceus*

Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
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<b>Cerceris</b> Latreille, 1802			
<i>Cerceris rybyensis</i>	Pendleton, T.A. and Pendleton, D.T. 2008	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
<b>Crabro</b> Fabricius, 1775			
<i>Crabro cribrarius</i>		Birklands and Bilhaugh	Ref: 1
<i>Crabro peltarius</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Whiteley, D. 2001	Birklands and Bilhaugh / Buck Gates	Ref: 79
	Pendleton, T.A. and Pendleton, D.T. 2008	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
<b>Crossocerus</b> Lepeletier & Brullé, 1834			
<i>Crossocerus annulipes</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Crossocerus cetratus</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Crossocerus dimidiatus</i>		Birklands West and Ollerton Corner	Ref: 1
<i>Crossocerus megacephalus</i>	1899	Birklands and Bilhaugh	Ref: 1
	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Crossocerus ovalis</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
<i>Crossocerus pusillus</i>	Carr, L.A. 1914	Birklands and Bilhaugh	Ref: 1
	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Crossocerus quadrimaculatus</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Crossocerus tarsatus</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Whiteley, D. 1989	Birklands West / Sherwood Heath	Ref: 79
<b>Ectemnius</b> Dahlbom, 1845			
<i>Ectemnius cavifrons</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Ectemnius continuus</i>	Pendleton, T.A. and Pendleton, D.T. 2008	Birklands and Bilhaugh	Ref: 36
<i>Ectemnius ruficornis</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<b>Gorytes</b> Latreille, 1804			
<i>Gorytes quadrifasciatus</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<b>Lindenius</b> Lepeletier & Brullé, 1834			
<i>Lindenius albilabris</i>		Birklands and Bilhaugh	Ref: 1
	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<b>Mellinus</b> Fabricius, 1790			
<i>Mellinus arvensis</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Brackenbury, A. 1989	Birklands West / Sherwood Heath	Ref: 79
<b>Nysson</b>			
<i>Nysson spinosus</i>	Carr, L.A. 1912	Birklands West and Ollerton Corner	Ref: 1
<b>Oxybelus</b> Latreille, 1796			
<i>Oxybelus uniglumis</i>		Birklands and Bilhaugh	Ref: 1
	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Whiteley, D. 1990	Birklands West / Sherwood Heath	Ref: 79
<b>Passaloecus</b> Shuckard, 1837			
<i>Passaloecus corniger</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<b>Pemphredon</b>			
<i>Pemphredon lugubris</i>	Carr, L.A. 1914	Birklands West and Ollerton Corner	Ref: 1
<i>Pemphredon lethifera</i>	Carr, L.A. 1912	Birklands and Bilhaugh	Ref: 1
	Carr, L.A. 1913	Birklands and Bilhaugh	Ref: 1
	Carr, L.A. 1914	Birklands and Bilhaugh	Ref: 1
<b>Psen</b> Latreille, 1796			
<i>Psen dahlbomi</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79

<i>Psen equestris</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Psen lutaria</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<b><i>Psenulus</i></b> Kohl, 1896			
<i>Psenulus pallipes</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<b><i>Trypoxylon</i></b> Latreille, 1796			
<i>Trypoxylon clavicerum</i>	Archer, M. 1985 Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh Birklands and Bilhaugh / Budby SF	Ref: 79 Ref: 119
<i>Trypoxylon figulus</i>	Archer, M. 1985	Birklands and Bilhaugh / Budby SF Birklands and Bilhaugh	Ref: 1 Ref: 79
<b>Apidae</b>			
<b><i>Andrena</i></b> Fabricius, 1775			
<i>Andrena barbilabris</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Andrena bicolor</i>	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
<i>Andrena cineraria</i>	1904 Archer, M. 1985 Pendleton, T.A. and Pendleton, D.T. 2006 Pendleton, T.A. and Pendleton, D.T. 2008 Pendleton, T.A. and Pendleton, D.T. 2009 Pendleton, T.A. and Pendleton, D.T. 2010 Pendleton, T.A. and Pendleton, D.T. 2011 Pendleton, T.A. and Pendleton, D.T. 2011 Pendleton, T.A. and Pendleton, D.T. 2012 Pendleton, T.A. and Pendleton, D.T. 2013 Pendleton, T.A. and Pendleton, D.T. 2013 Pendleton, T.A. and Pendleton, D.T. 2013 Pendleton, T.A. and Pendleton, D.T. 2013	Birklands and Bilhaugh Birklands and Bilhaugh Birklands and Bilhaugh / Budby SF Birklands West / Clipstone Old Qtr Birklands and Bilhaugh Birklands and Bilhaugh / Budby SF Birklands and Bilhaugh Birklands and Bilhaugh / Budby SF Birklands and Bilhaugh / Budby SF Birklands West / Sherwood Heath Birklands and Bilhaugh / Budby SF Birklands and Bilhaugh Birklands West / Clipstone Old Qtr	Ref: 1 Ref: 79 Ref: 36 Ref: 36 Ref: 36 Ref: 36 Ref: 36 Ref: 119 Ref: 36 Ref: 36 Ref: 36 Ref: 36 Ref: 36
<i>Andrena clarkella</i>	Pendleton, T.A. and Pendleton, D.T. 2010 Pendleton, T.A. and Pendleton, D.T. 2011 Pendleton, T.A. and Pendleton, D.T. 2013 Pendleton, T.A. and Pendleton, D.T. 2013	Birklands and Bilhaugh / Budby SF Birklands and Bilhaugh / Budby SF Birklands West / Sherwood Heath Birklands and Bilhaugh / Budby SF	Ref: 36 Ref: 119 Ref: 36 Ref: 36
<i>Andrena denticulata</i>	Archer, M. 1985	Birklands and Bilhaugh Birklands and Bilhaugh	Ref: 1 Ref: 79
<i>Andrena falsifica</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Andrena fucata</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Andrena fulva</i>	Archer, M. 1985 Pendleton, T.A. and Pendleton, D.T. 2010 Pendleton, T.A. and Pendleton, D.T. 2011 Pendleton, T.A. and Pendleton, D.T. 2011 Pendleton, T.A. and Pendleton, D.T. 2013 Pendleton, T.A. and Pendleton, D.T. 2013 Pendleton, T.A. and Pendleton, D.T. 2013 Pendleton, T.A. and Pendleton, D.T. 2013	Birklands and Bilhaugh Birklands and Bilhaugh / Budby SF Birklands and Bilhaugh Birklands and Bilhaugh / Budby SF Birklands West / Sherwood Heath Birklands and Bilhaugh / Budby SF Birklands and Bilhaugh Birklands West / Clipstone Old Qtr	Ref: 79 Ref: 36 Ref: 36 Ref: 119 Ref: 36 Ref: 36 Ref: 36 Ref: 36
<i>Andrena fuscipes</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Andrena haemorrhhoa</i>	Archer, M. 1985 Pendleton, T.A. and Pendleton, D.T. 2008 Pendleton, T.A. and Pendleton, D.T. 2008 Pendleton, T.A. and Pendleton, D.T. 2008 Pendleton, T.A. and Pendleton, D.T. 2009 Pendleton, T.A. and Pendleton, D.T. 2010 Pendleton, T.A. and Pendleton, D.T. 2010 Pendleton, T.A. and Pendleton, D.T. 2011 Pendleton, T.A. and Pendleton, D.T. 2011 Pendleton, T.A. and Pendleton, D.T. 2013 Pendleton, T.A. and Pendleton, D.T. 2013	Birklands and Bilhaugh Birklands and Bilhaugh Birklands and Bilhaugh / Budby SF Birklands West / Clipstone Old Qtr Birklands and Bilhaugh Birklands and Bilhaugh Birklands and Bilhaugh / Budby SF Birklands and Bilhaugh Birklands and Bilhaugh / Budby SF Birklands and Bilhaugh Birklands West / Clipstone Old Qtr	Ref: 79 Ref: 36 Ref: 36 Ref: 36 Ref: 36 Ref: 36 Ref: 36 Ref: 36 Ref: 119 Ref: 36 Ref: 36
<i>Andrena lapponica</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Andrena nana</i>		Birklands West and Ollerton Corner	Ref: 1

<i>Andrena nigroaenea</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Pendleton, T.A. and Pendleton, D.T. 2009	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
<i>Andrena scotica</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Andrena wilkella</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<b>Anthophora</b> Latreille, 1803			
<i>Anthophora furcata</i>	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands West / Clipstone Old Qtr	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
<i>Anthophora plumipes</i>	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
<b>Epeolus</b> Latreille, 1802			
<i>Epeolus cruciger</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Pendleton, T.A. and Pendleton, D.T. 2009	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
<i>Epeolus variegatus</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<b>Nomada</b> Scopoli, 1763			
<i>Nomada goodeniana</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Pendleton, T.A. and Pendleton, D.T. 2009	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
<i>Nomada lathburiana</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Nomada leucophthalma</i>	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
<i>Nomada marshamella</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Nomada panzeri</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Nomada rufipes</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Godfrey, A. 2003	Birklands West / Sherwood Heath	Ref: 104
	Godfrey, A. 2006	Birklands West / Sherwood Heath	Ref: 108
	Pendleton, T.A. and Pendleton, D.T. 2008	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2010	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
<b>Apis</b> Linnaeus, 1758			
<i>Apis mellifera</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Whiteley, D. 2003	Birklands and Bilhaugh	Ref: 79
	Pendleton, T.A. and Pendleton, D.T. 2003	Birklands West / Clipstone Old Qtr	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2005	Birklands West / Clipstone Old Qtr	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2005	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2005	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2006	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2006	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2006	Birklands West / Clipstone Old Qtr	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2007	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2007	Birklands West / Clipstone Old Qtr	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2007	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2007	Birklands West / Sherwood Heath	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2009	Birklands West / Clipstone Old Qtr	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2009	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2009	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2010	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2010	Birklands West / Clipstone Old Qtr	Ref: 36
	Joynt, G. 2010	Birklands and Bilhaugh	Ref: 73
	Pendleton, T.A. and Pendleton, D.T. 2010	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2010	Birklands West / Sherwood Heath	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands West / Sherwood Heath	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands West / Clipstone Old Qtr	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2012	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2012	Birklands West / Clipstone Old Qtr	Ref: 36
Pendleton, T.A. and Pendleton, D.T. 2012	Birklands and Bilhaugh	Ref: 36	





	Pendleton, T.A. and Pendleton, D.T. 2013	Birklands and Bilhaugh	Ref: 36
<i>Bombus pratorum</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Godfrey, A. 2003	Birklands West / Sherwood Heath	Ref: 104
<i>Bombus sylvestris</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Pendleton, T.A. and Pendleton, D.T. 2005	Birklands West / Clipstone Old Qtr	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2009	Birklands West / Clipstone Old Qtr	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2009	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2010	Birklands and Bilhaugh	Ref: 36
<i>Bombus terrestris</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Pendleton, T.A. and Pendleton, D.T. 2003	Birklands West / Clipstone Old Qtr	Ref: 36
	Godfrey, A. 2003	Birklands West / Sherwood Heath	Ref: 104
	Pendleton, T.A. and Pendleton, D.T. 2005	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2005	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2006	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2006	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2006	Birklands West / Clipstone Old Qtr	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2007	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2007	Birklands West / Clipstone Old Qtr	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2007	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2007	Birklands West / Sherwood Heath	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2009	Birklands West / Clipstone Old Qtr	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2009	Birklands and Bilhaugh / Budby SF	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2009	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2010	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2010	Birklands West / Clipstone Old Qtr	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2010	Birklands West / Sherwood Heath	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands West / Sherwood Heath	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands West / Clipstone Old Qtr	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2012	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2013	Birklands and Bilhaugh	Ref: 36
<i>Bombus vestalis</i>	Pendleton, T.A. and Pendleton, D.T. 2010	Birklands and Bilhaugh	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands West / Clipstone Old Qtr	Ref: 36
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh	Ref: 36
<b><i>Colletes</i></b> Latreille, 1802			
<i>Colletes daviesanus</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Colletes succinctus</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<b><i>Hylaeus</i></b> Fabricius, 1793			
<i>Hylaeus brevicornis</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Hylaeus communis</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Hylaeus signatus</i>	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
<b><i>Halictus</i></b> Latreille, 1804			
<i>Halictus rubicundus</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Halictus tumulorum</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Whiteley, D. 1990	Birklands West / Sherwood Heath	Ref: 79
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
<b><i>Lasioglossum</i></b> Curtis, 1833			
<i>Lasioglossum calceatum</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Lasioglossum fratellum</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Lasioglossum leucopus</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Lasioglossum leucozonium</i>	1913	Birklands and Bilhaugh	Ref: 119
	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
<i>Lasioglossum punctatissimum</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79

<i>Lasioglossum rufitarse</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Lasioglossum villosulum</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
<b>Sphecodes</b> Latreille, 1804			
<i>Sphecodes ephippius</i>	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
<i>Sphecodes geoffrellus</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
<i>Sphecodes gibbus</i>	Thornley and Carr, L.A.	Birklands and Bilhaugh	Ref: 1
	Archer, M. 1985	Birklands and Bilhaugh / Budby SF	Ref: 1
		Birklands and Bilhaugh	Ref: 79
<i>Sphecodes pellucidus</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<i>Sphecodes monilicornis</i>		Birklands and Bilhaugh / Budby SF	Ref: 1
	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119
<i>Sphecodes puncticeps</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<b>Chelostoma</b> Latreille, 1809			
<i>Chelostoma florisomme</i>	1912	Birklands and Bilhaugh	Ref: 1
<b>Megachile</b> Latreille, 1802			
<i>Megachile willoughbiella</i>	Pendleton, T.A. and Pendleton, D.T. 2006	Birklands West / Clipstone Old Qtr	Ref: 36
<i>Megachile versicolor</i>	Archer, M. 1985	Birklands and Bilhaugh	Ref: 79
<b>Osmia</b> Panzer, 1806			
<i>Osmia rufa</i>	Pendleton, T.A. and Pendleton, D.T. 2011	Birklands and Bilhaugh / Budby SF	Ref: 119

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