

Bee	Common name	Comment	Hyperlink to image	1999**	2000*	2006*	2007*	2015***	2018 ¹	2019*	2023 ²
Andrena angustior	Groove faced mining bee		https://www.flickr.com/photos/63075200@N07/sets/72157640599506795/		√		√				
Andrena bicolor	Gwynne's mining bee		https://www.flickr.com/photos/63075200@N07/albums/72157640850295823/		√	√	√				
Andrena chrysoceles	Hawthorn mining bee		https://www.flickr.com/photos/63075200@N07/sets/72157640849883643/			√					
Andrena cineraria	Ashy mining bee/ Grey mining bee	See <i>Nomada lathburiana</i>	https://www.flickr.com/photos/63075200@N07/albums/72157639941967144/	√	√	√	√			√	
Andrena dorsata	Short fringed mining bee		https://www.flickr.com/photos/63075200@N07/albums/72157639398232733/			√	√	√			
Andrena flavipes	Yellow legged mining bee	See <i>Nomada fucata</i>	https://www.flickr.com/photos/63075200@N07/albums/72157639937875435/	√	√	√	√	F√		√	
Andrena fulva/andrena armata	Tawny mining bee	<i>Nomada panzeri</i> Lepeletier and <i>N. signata</i> Jurine are cleptoparasites of this bee (source www.bwars.com). Also attacked by the bee-fly <i>Bombylius major</i> and <i>Leucophora</i> flies (source Steven Falk, Field Guide to Bees or Great Britain and Ireland)	https://www.flickr.com/photos/63075200@N07/albums/72157640359468576/	√	√	√				√	
Andrena fulvago	Hawksbeard mining bee		https://www.flickr.com/photos/63075200@N07/sets/72157640845935815/				√				
Andrena fuscipes	Heather mining bee	The cuckoo-bee <i>Nomada rufipes</i> Fabricius parasitises this species. (source www.bwars.com)	https://www.flickr.com/photos/63075200@N07/albums/72157640848151684/							√	
Andrena haemorrhoa	Orange-tailed mining bee		https://www.flickr.com/photos/63075200@N07/albums/72157639933374725/		√	√				√	
Andrena humilis	Catsear mining bee	The cleptoparasitic bee <i>Nomada Integra</i> is specifically associated with this species (source www.bwars.com)	https://www.flickr.com/photos/63075200@N07/albums/72157640842568135/	√	√	√	√			√	
Andrena labialis	Large meadow mining bee		http://www.bwars.com/index.php?q=bee/andrenidae/andrena-labialis			√					
Andrena labiata	Red girdled mining bee	The rare bee <i>Nomada guttulata</i> Schenck is a known cleptoparasite of <i>A. Labiata</i> (from www.bwars.com)	https://www.flickr.com/photos/63075200@N07/sets/72157640840109505/		√						

Bee	Common name	Comment	Hyperlink to image	1999**	2000*	2006*	2007*	2015***	2018 ¹	2019*	2023 ²
<i>Andrena minutula</i>	Common mini mining bee		https://www.flickr.com/photos/63075200@N07/sets/72157639393479716/				√			√	
<i>Andrena nigroaenea</i>	Buffish mining bee	<i>Nomada goodeniana</i> (Kirby) is a cleptoparasite on this species (source www.bwars.com)	https://www.flickr.com/photos/63075200@N07/albums/72157639934740414/							√	
<i>Andrena nitida/Andrena pubescens</i>	Grey patched mining bee	It is possible that the cuckoo-bee <i>Nomada goodeniana</i> parasitises this species. It is known to be parasitised by the Strepsipteran <i>Stylops melittae</i> , but this is not very frequent. (source www.bwars.com)	https://www.flickr.com/photos/63075200@N07/sets/7215763992243985/	√	√	√	√			√	
<i>Andrena ovatula</i>	Small Gorse mining bee		https://www.flickr.com/photos/63075200@N07/albums/7215763939398404243/		√		√	√			
<i>Andrena scotica</i>	Chocolate mining bee		https://www.flickr.com/photos/63075200@N07/albums/72157640800969414/		√	√		F		√	
<i>Andrena semilaevis</i>	Shiny margined mining bee		https://www.flickr.com/photos/63075200@N07/sets/72157639398512484/				√				
<i>Andrena subopaca</i>	Impunctate mini mining bee		https://www.flickr.com/photos/63075200@N07/sets/72157639398441074/			√				√	
<i>Andrena tibialis</i>	Grey-gastered mining bee		https://www.flickr.com/photos/63075200@N07/albums/72157639949497173/	√							
<i>Andrena trimmerana</i>	Trimmer's mining bee		http://www.bwars.com/index.php?q=bee/andrenidae/andrena-trimmerana			√					
<i>Andrena wilkella</i>	Small white-haired bee or Wilke's mining bee	<i>Nomada striata</i> Fabricius is a cleptoparasite of this species (source www.bwars.com)	https://www.flickr.com/photos/63075200@N07/sets/72157639396785955/	√	√	√					
<i>Anthophora bimaculata</i>	Little flower bee		https://www.flickr.com/photos/63075200@N07/sets/72157633022125950/		√	√	√	√		√	
<i>Anthophora furcata</i>	Fork tailed flower bee		https://www.flickr.com/photos/63075200@N07/albums/72157633009675631					F			
<i>Apis mellifera</i>	Western honey bee		https://www.flickr.com/photos/63075200@N07/albums/72157631875127545/		√		√	√		√	
<i>Bombus hortorum</i>	Small garden bumble bee		http://www.bwars.com/index.php?q=bee/apidae/bombus-hortorum			√				√	

Bee	Common name	Comment	Hyperlink to image	1999**	2000*	2006*	2007*	2015***	2018 ¹	2019*	2023 ²
Bombus hypnorum	Tree bumble bee		https://www.flickr.com/photos/63075200@N07/albums/72157631506523229/					F		√	
Bombus lapidarius	Red tailed bumle bee		https://www.flickr.com/photos/63075200@N07/albums/72157631514926477/		√	√	√	√		√	
Bombus lucorum	White-tailed bumble bee	In recent years it has become apparent that the bee known as <i>B. lucorum</i> (Linnaeus, 1761) is in fact a species complex, containing two other species - <i>B. magnus</i> and <i>B. cryptarum</i> . Separation of the three species is very difficult, so that definitive records for any of the three species are rare. (source www.bwars.com)	https://www.flickr.com/photos/63075200@N07/albums/72157631522308509/		√					√	
Bombus pascuorum	Common carder bee		https://www.flickr.com/photos/63075200@N07/albums/72157631568683973/		√	√	√	√		√	
Bombus pratorum	Early bumble bee		https://www.flickr.com/photos/63075200@N07/albums/72157631568798319/		√	√					
Bombus terrestris	Buff tailed bumble bee		https://www.flickr.com/photos/63075200@N07/albums/72157631551512056/		√	√	√	Fv		√	
Bombus vestalis	Vestal/Southern cuckoo bee		https://www.flickr.com/photos/63075200@N07/albums/72157631637642778/		√	√	√			√	
Ceratina cyanea	Blue carpenter bee		https://www.flickr.com/photos/63075200@N07/sets/72157633009584545/					√			
Chelostoma campanularum	Small Scissor bee		https://www.flickr.com/photos/63075200@N07/albums/72157633013852384/				√	F			
Colletes hederæ	Ivy bee	Identified by Rupert Higgins	https://www.flickr.com/photos/63075200@N07/sets/72157636022153124/						√		
Colletes similis	Bare saddled colletes		https://www.flickr.com/photos/63075200@N07/sets/72157636022066913/				√			√	
Colletes succinctus	Heather colletes	A plasterer bee	https://www.flickr.com/photos/63075200@N07/albums/72157636022056404/		√	√	√			√	

Bee	Common name	Comment	Hyperlink to image	1999**	2000*	2006*	2007*	2015***	2018 ¹	2019*	2023 ²
Halictus rubicundus	Orange-legged Furrow-bee	Two cleptoparasitic bees attack this species: <i>Sphecodes gibbus</i> and <i>S. monilicornis</i> . It is also recorded as being attacked by the conopid fly <i>Zodion cinereum</i> (K G V Smith 1969). (Source www.bwars.com)	https://www.flickr.com/photos/63075200@N07/albums/72157632403240438747/							v	
Halictus tumulorum	Common bronze furrow bee		https://www.flickr.com/photos/63075200@N07/sets/72157633240390817/			v	v			v	
Hoplitis claviventris	Weltd less mason bee		https://www.flickr.com/photos/63075200@N07/sets/72157633188189556/		v	v					
Hylaeus annularis	Shingle yellow-face bee		https://www.flickr.com/photos/63075200@N07/albums/72157633240100715/			v	v				
Hylaeus communis	Common yellow face		https://www.flickr.com/photos/63075200@N07/sets/72157633244773926/			v		F			
Hylaeus cornutus	Spined hylaeus		https://www.flickr.com/photos/63075200@N07/sets/72157633239899979/				v				
Hylaeus dilatatus	Chalk Yellow Face bee		https://www.flickr.com/photos/63075200@N07/albums/72157633239879547/					v		v	
Hylaeus hyalinatus	Hairy yellow face or Hyaline masked bee	A plasterer bee	https://www.flickr.com/photos/63075200@N07/sets/72157633244619676/		v						
Lasioglossum calceatum	Common furrow bee		https://www.flickr.com/photos/63075200@N07/sets/72157644556593443/		v	v		v		v	
Lasioglossum lativentre	Furry claspered furrow bee		https://www.flickr.com/photos/63075200@N07/sets/72157648811948039/			v					
Lasioglossum leucopus	White-footed green furrow bee		https://www.flickr.com/photos/63075200@N07/albums/72157649125818551/			v					
Lasioglossum leucozonium	White-zooned furrow bee	There are no host-specific <i>Sphecodes</i> on <i>L. leucozonium</i> but <i>S. ephippius</i> will parasitize this species and other <i>Lasioglossum</i> . (source www.bwars.com)	https://www.flickr.com/photos/63075200@N07/albums/72157647510529948/		v	v	v	v		v	

Bee	Common name	Comment	Hyperlink to image	1999**	2000*	2006*	2007*	2015***	2018 ¹	2019*	2023 ²
<i>Lasioglossum malachurum</i>	Sharp-collared Furrow-bee	L Packer (pers. comm.) has excavated the cleptoparasite, <i>Sphecodes monilicornis</i> (Kirby) and larvae of the oil beetle <i>Meloe proscarabaeus</i> Linnaeus from nest burrows of this bee on the Isle of Wight. (source www.bwars.com)	https://www.flickr.com/photos/63075200@N07/albums/72157646792833883/							v	
<i>Lasioglossum minutissimum</i>	Least Furrow-bee	The bee <i>Sphecodes longulus</i> von Hagens is a recorded cleptoparasite of <i>Lasioglossum minutissimum</i> . (source www.bwars.com)	https://www.flickr.com/photos/63075200@N07/albums/72157649076267888/							v	
<i>Lasioglossum morio</i>	Brassy mining bee		https://www.flickr.com/photos/63075200@N07/albums/72157648712435768/			v	v	FV		v	
<i>Lasioglossum parvulum</i>	Smooth-gastered furrow bee	A putative host of several cleptoparasitic bees, including <i>Sphecodes geoffrellus</i> (Kirby), <i>S. crassus</i> Thomson, <i>S. miniatus</i> von Hagens, <i>S. ephippius</i> (Linnaeus) and <i>Nomada sheppardana</i> (Kirby). Specimens are occasionally collected carrying females of the stylons <i>Halictoxenos</i> . (source	https://www.flickr.com/photos/63075200@N07/sets/72157649405511616/	v		v	v			v	
<i>Lasioglossum punctatissimum</i>	Long faced furrow bee		http://www.bwars.com/index.php?q=bee/halictidae/lasioglossum-punctatissimum		v	v					
<i>Lasioglossum rufitarse</i>	Rufous-footed furrow bee		https://www.flickr.com/photos/63075200@N07/albums/72157649023020329/			v					
<i>Lasioglossum smeathmanellum</i>	Smeathman's furrow bee	A bee with a blue-green sheen over the thorax and abdomen	https://www.flickr.com/photos/63075200@N07/albums/72157648674867527/					v			
<i>Lasioglossum villosulum</i>	Shaggy mining bee or Sparse punctured furrow bee		https://www.flickr.com/photos/63075200@N07/sets/72157647904939601/			v	v	v		v	
<i>Megachile centuncularis</i>	Patchwork Leafcutter Bee	Photographed by Susan Acton-Campbell on 10/7/2023. Identification suggested by iNaturalist, confirmed by Derek Gardener of BWARS and by comparison to the Field Guide to the Bees of Great Britain and Ireland.	https://www.flickr.com/photos/63075200@N07/albums/72157633282322518/								v

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Megachile ligniseca	Wood carving leaf cutter		https://www.flickr.com/photos/63075200@N07/sets/72157633280819223/			v					
Megachile willughbiella	Leafcutter bee or Willughby's leafcutter		https://www.flickr.com/photos/63075200@N07/sets/72157633280819223/		v	v	v				
Nomada fabriciana	Fabricius' nomad bee	This is a widespread and locally common nomad that seems to attack several Andrena species but primarily A. bicolor. It is bivoltine in most places with a strong spring generation and a weak late summer one. Source Falk)	https://www.flickr.com/photos/63075200@N07/albums/72157633441435347/		v	v				v	
Nomada flava	Flavous nomad bee	This nomad primarily attacks Andrena scotica but may also use A. nigroaenea, A. pubescens and A. ferox to a small extent. (source Falk)	https://www.flickr.com/photos/63075200@N07/sets/72157633441342695/		v						
Nomada flavoguttata	Small nomad bee	This is a widespread and locally common nomad that attacks various species of smaller Andrena mining bees (the 'mini-miners') such as A. minutula and A. subopaca. It can be bivoltine or univoltine depending on the host and the geographic location.	https://www.flickr.com/photos/63075200@N07/albums/72157633441284751/		v	v	v			v	
Nomada flavopicta	Blunthorn nomad		https://www.flickr.com/photos/63075200@N07/sets/72157633441268055/					v			
Nomada fucata	Painted nomad bee	Parasities the nests of Andrena flavipes (source www.bwars.com)	https://www.flickr.com/photos/63075200@N07/albums/72157633456761249/	v	v	v	v	v		v	
Nomada goodeniana	Gooden's nomad bee	Is a nest parasite of Andrena nigroaenea (source www.habitas.org.uk)	https://www.flickr.com/photos/63075200@N07/albums/72157633574350736/	v	v	v	v			v	
Nomada guttulata	Short-spined nomad bee	A cleptoparasite of the mining bee Andrena labiata	https://www.flickr.com/photos/63075200@N07/albums/72157648368078964/		v						
Nomada integra	Catsear nomad bee	Well known as a cleptoparasite of Andrena humilis (source www.bwars.com)	https://www.flickr.com/photos/63075200@N07/albums/72157633460042583/		v	v	v				

Bee	Common name	Comment	Hyperlink to image	1999**	2000*	2006*	2007*	2015***	2018 ¹	2019*	2023 ²
Nomada lathburiana	Lathbury's nomad bee	Cleptoparasite of <i>Andrena cineraria</i> (source www.bwars.com)	https://www.flickr.com/photos/63075200@N07/albums/72157633475534472/	✓	✓	✓	✓			✓	
Nomada marshamella	Marsham's nomad	This species is mainly a cleptoparasite of <i>Andrena carantonica</i> (source www.bwars.com)	https://www.flickr.com/photos/63075200@N07/sets/72157633464651197/		✓					✓	
Nomada panzeri	Panzer's nomad		https://www.flickr.com/photos/63075200@N07/sets/72157633480087210/		✓						
Nomada ruficornis	Bifid jawed nomad or Common bee wasp	The Bee Wasp larvae eat the larvae of the host bee. This species of Bee Wasp often targets <i>Andrena haemorrhoa</i> (source www.naturespot.org.uk).	https://www.flickr.com/photos/63075200@N07/sets/72157633479986400/		✓	✓	✓				
Nomada rufipes	Black-horned nomad bee	The female bee lays her eggs in provisioned cells inside the underground nests of its hosts, which are bees of the <i>Andrena denticulata</i> group (source www.bwars.com)	https://www.flickr.com/photos/63075200@N07/albums/72157633464416873/		✓	✓	✓			✓	
Nomada striata	A cleptoparasite of <i>Andrena wilkella</i> (source www.bwars.com)		https://www.flickr.com/photos/63075200@N07/sets/72157633464238547/			✓	✓				
Nomada zonata	Variable nomad bee	Photographed by Susan Acton-Campbell on 1/5/2023. Identified by Adam Roberts, curator for iNaturalist, identification confirmed by Steven Falk. The host is <i>Andrena dorsata</i> .	https://www.flickr.com/photos/63075200@N07/albums/72157649316314657/								✓
Panurgus banksianus	Large shaggy bee		https://www.flickr.com/photos/63075200@N07/albums/72157633233039937/		✓		✓	✓		✓	
Sphecodes crassus	Swollen thighed blood bee		https://www.flickr.com/photos/63075200@N07/sets/72157638185052253/		✓		✓			✓	
Sphecodes ephippius	Bare saddled blood bee		https://www.flickr.com/photos/63075200@N07/sets/72157638183685295/			✓	✓			✓	
Sphecodes geoffrellus	Geoffroy's blood bee		https://www.flickr.com/photos/63075200@N07/albums/72157638184912864/			✓	✓	F			

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<i>Sphecodes gibbus</i>	Dark-winged Blood-bee	The larvae are cleptoparasitic on larger bees of the genera <i>Halictus</i> and <i>Lasioglossum</i> . An adult female <i>Sphecodes</i> bee enters the burrow of a host bee and searches out an almost completed cell of the host where it lays its egg. Some female <i>Sphecodes</i> are apparently unique among cleptoparasitic bees in that they remove (eat?) the host egg before laying their own (see, for example, Stephen, Bohart & Torchio, 1969). (source www.bwars.com)	https://www.flickr.com/photos/63075200@N07/albums/72157638183184308943/							v	
<i>Sphecodes monilicornis</i>	Square-headed blood bee	Attacks the nests of <i>Lasioglossum malachurum</i> (source www.eakingbirds.com)	https://www.flickr.com/photos/63075200@N07/sets/72157638183768695/	v	v	v	v			v	
<i>Sphecodes reticulatus</i>	Reticulate blood bee		https://www.flickr.com/photos/63075200@N07/sets/72157638183534895/		v	v					
Totals of species recorded				12	43	50	41	24	1	44	2

Key:

- * - Surveys by David Gibbs; the full reports can be viewed on <http://www.troopers-hill.org.uk/info.htm>
- ** - observations listed in the appendix to the 1999 management plan, see <http://www.troopers-hill.org.uk/info.htm>
- *** - Recorded by David Notton, Senior Curator, Hymenoptera, Natural History Museum, report on <http://www.troopers-hill.org.uk/Flora/bees/DavidNotton2015.pdf>
- F - is used on David's records to note the bee was seen in Troopers Hill Field and not on the Local Nature Reserve
- ¹ - observation by Rupert Higgins, Wessex Ecological Consultancy
- ² - observation by Susan Acton-Campbell, Chair, Friends of Troopers Hill

Note:

a) Where 2 names are recorded e.g. *Andrena fulva/Andrena armata*, the current name is listed first. We will have records in www.troopers-hill.org.uk/info.htm where the old name is used

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		b) the sequence used in this spreadsheet is the sequence in which the bees were found and/or listed in survey documents									