



## **Ecological data search for land at Southbourne Parish**

On behalf of Amanda Tait (Southbourne Parish Council)

Report reference SxBRC/20/189

Prepared on 14/07/2020



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# Introduction & Summary of Results

An ecological data search was carried out for land at Southbourne Parish on behalf of Amanda Tait (Southbourne Parish Council) on 14/07/2020.

The following datasets were consulted for this report:

	Requested	Radius/buffer size
Designated sites, habitats & ownership maps	Yes	Site only
Protected, designated and invasive species	Yes	Site only

## Summary of results

### Sites and habitats

Statutory sites	1 SAC / 1 SPA / 1 Ramsar / 1 SSSI / 1 AONB / 3 LNRs	
Non-statutory sites	3 LWS	
Section 41 habitats	10 habitats	
Ancient and/or ghyll woodland	Present	

### Protected and designated species

International designations	59 species	6,147 records
National designations	169 species	13,081 records
Other designations	387 species	21,956 records
<b>Total</b>	<b>413 species</b>	<b>25,676 records</b>

Invasive non-natives species	39 species	709 records
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## Important Information

### **PERMISSION**

**This report is valid until 14/07/2021**

**This report is for the internal use of Amanda Tait of Southbourne Parish Council (which includes the client where applicable) to inform understanding of the site of interest. This report must not be distributed or published for an external or public audience, for example within the appendix of a report. However, data from within this report may be referenced as long as the Sussex Biodiversity Record Centre is acknowledged.**

**The separate summary sheet may be published.**

**It must not be assumed that this report contains the definitive species and habitat information for the site concerned.**

The species data held by the Sussex Biodiversity Record Centre (SxBRC) are collated from the biological recording community in Sussex. However, there are many areas of Sussex where the records held are limited, either spatially or taxonomically.

A data search from SxBRC will give the user a clear indication of what biological recording has taken place. The information provided is a useful tool for making an assessment of the site, but should be used in conjunction with site visits and appropriate surveys before further judgements on the presence or absence of key species or habitats can be made. It may be that the content of this report guides the reader as to which surveys should be carried out on the site.

This report was compiled using data held at SxBRC at the time of production. SxBRC takes data validation very seriously, but cannot be held responsible for the accuracy of data included in this report.

SxBRC operates as agent to the individuals and groups who provide their records free of charge. The data suppliers retain copyright on their data, while SxBRC retains copyright on its data search reports.

#### **Impartiality**

SxBRC functions as custodian of biological data. Our role is to collect, manage and disseminate wildlife and habitat data. As such, we have to remain impartial and cannot offer opinions on the biodiversity value of a given site. Similarly, we cannot put forward objections to planning applications or be involved in campaigns.



# Maps

Based on data currently held at the Sussex Biodiversity Record Centre, the following appear within the search radius:

Statutory site designations	
Special Area of Conservation (SAC)	Solent Maritime
Special Protection Area (SPA)	Chichester and Langstone Harbours
Ramsar site	Chichester and Langstone Harbours
Site of Special Scientific Interest (SSSI)	Chichester Harbour
Area of Outstanding Natrual Beauty (AONB)	Chichester Harbour
Local Nature Reserve (LNR)	Brook Meadow (Emsworth) Eames Farm Nutborne Marshes
Non-statutory site designations	
Local Wildlife Site (LWS)	C102 - Slipper Mill Pond & Peter Pond C112 - Nutbourne Pastures C113 - Thornham Point
Ownership/management	
None present	
Section 41 habitats & other	
Chalk stream and river Lowland fen Reedbed Intertidal mudflat Saline lagoon Coastal saltmarsh Traditional orchard Lowland meadow Coastal & floodplain grazing marsh Deciduous woodland Ancient woodland	

Any citation sheets currently available can be found towards the back of this report.

**PLEASE NOTE: Proposed/potential statutory site designations are not currently shown on our maps. Please consult Defra's MAGIC website to see if a proposed site is within the search area:**

<https://magic.defra.gov.uk/MagicMap.aspx>

Habitat data held by Sussex Biodiversity Record Centre (SxBRC) are created in-house or obtained from a variety of dataset providers. SxBRC continually strive to further improve and update these data wherever possible. However, this map should be treated as indicative rather than definitive. Data may be generated from a range of field survey and/or predictive methods, each of which may have its own inherent limitations. In some situations a recent ground survey may be required to establish definitively the current status of a particular habitat at a specific location.

## Key to Maps

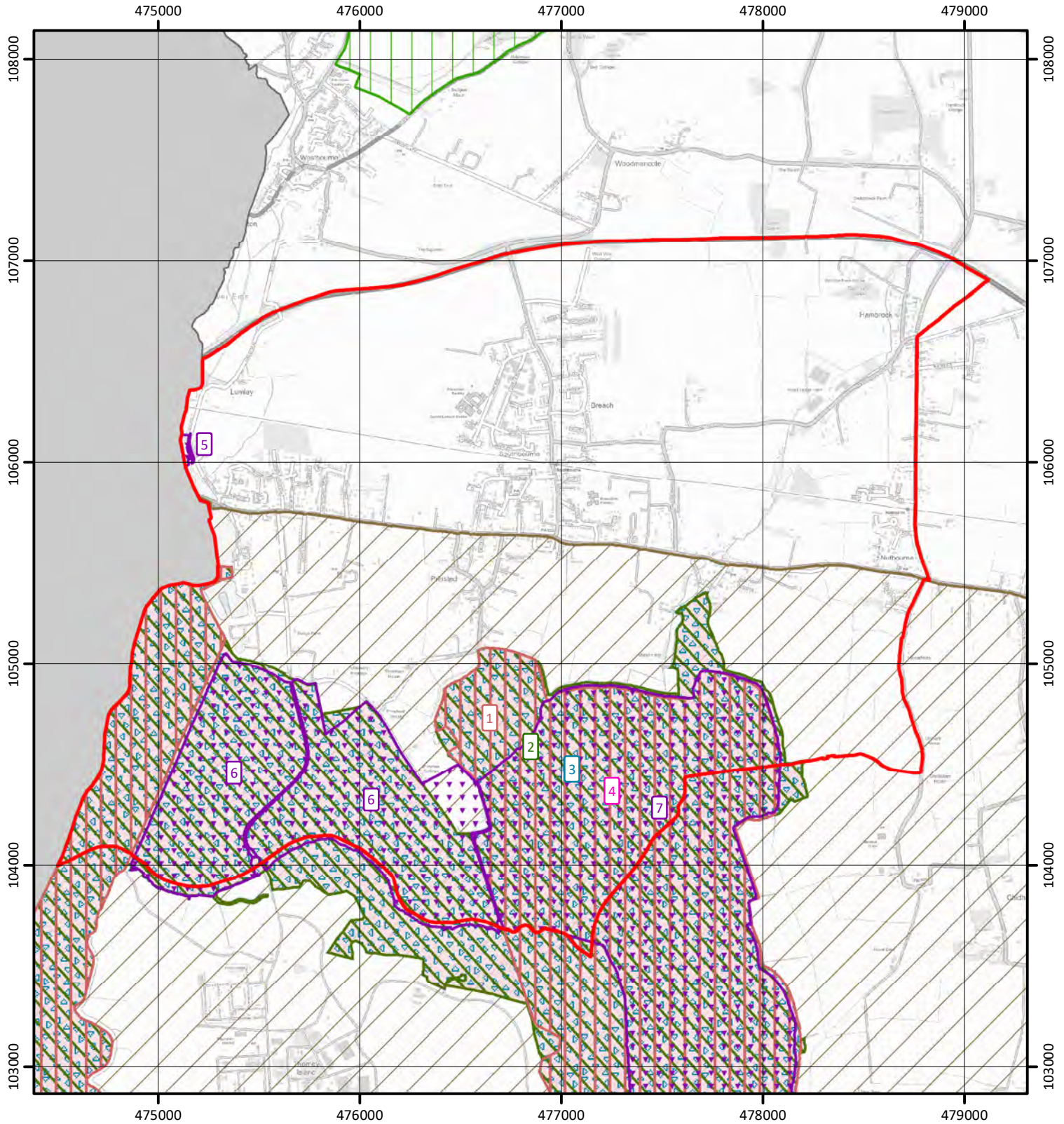
The numbers in the table below correlate with the maps on the following pages.

<b>Map 1: Statutory site designations</b>		
Special Area of Conservation	1	Solent Maritime
Special Protection Area	2	Chichester and Langstone Harbours
Ramsar	3	Chichester and Langstone Harbours
Site of Special Scientific Interest	4	Chichester Harbour
Local Nature Reserve	5	Brook Meadow (Emsworth)
	6	Eames Farm
	7	Nutborne Marshes
<b>Map 2: Non-statutory site designations</b>		
Local Wildlife Site	1	C102 - Slipper Mill Pond & Peter Pond
	2	C112 - Nutbourne Pastures
	3	C113 - Thornham Point

# Map 1: Statutory site designations

## Land at Southbourne Parish

SxBRC/20/189 - 14/07/2020

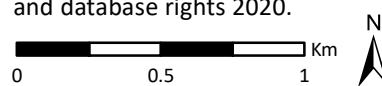


Key to Map:

-  Parish boundary
-  Land beyond Sussex
-  Site of Special Scientific Interest
-  Ramsar
-  Special Area of Conservation
-  Special Protection Area
-  Area of Outstanding Natural Beauty
-  National Park
-  Local Nature Reserve

Statutory designated site boundaries supplied by Natural England. Contains public sector information licensed under the Open Government Licence v3.0.

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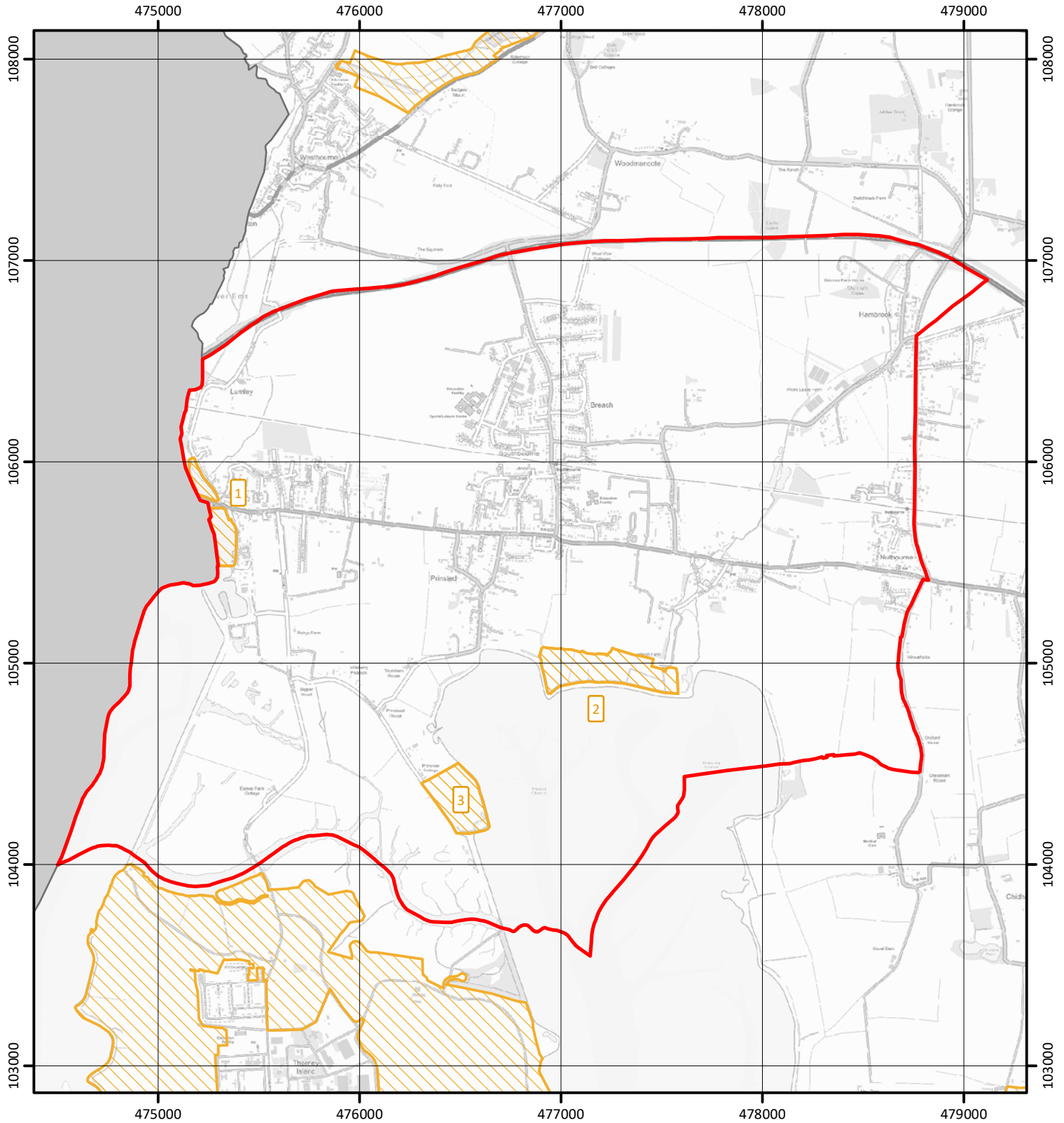




## Map 2: Non-statutory site designations




### Land at Southbourne Parish

SxBRC/20/189 - 14/07/2020

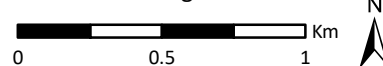


Local Wildlife Site boundaries maintained by Sussex Biodiversity Record Centre (SxBRC) on behalf of Sussex Local Wildlife Site Initiative. Notable Road Verge data provided by local authorities. Local Geological Site data created by SxBRC in partnership with Sussex Geodiversity Group.

#### Key to Map:

-  Parish boundary
-  Land beyond Sussex
-  Local Wildlife Site

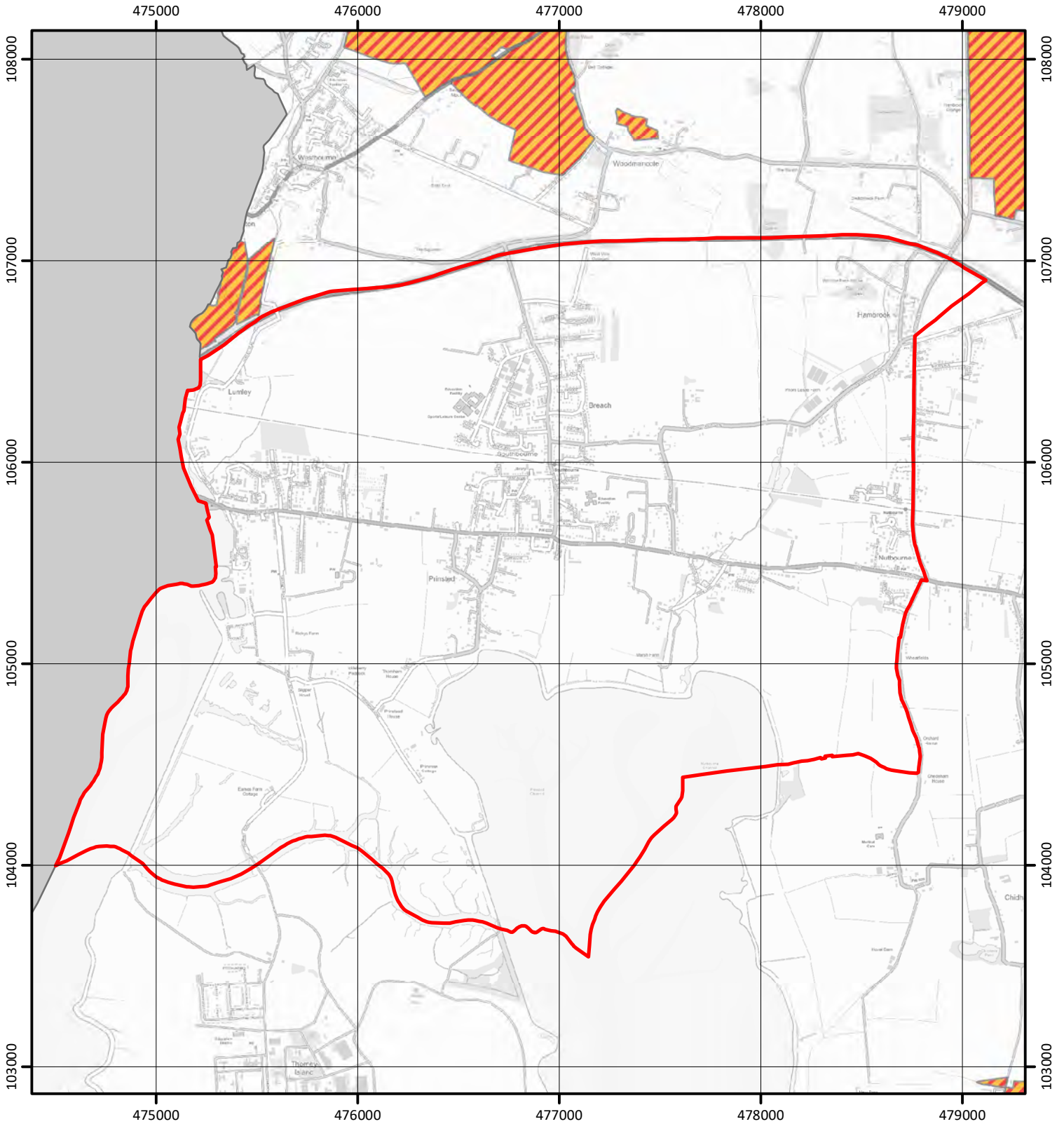
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# Map 3: Ownership & management

## Land at Southbourne Parish

SxBRC/20/189 - 14/07/2020

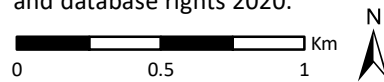


**Key to Map:**

-  Parish boundary
-  Land beyond Sussex
- Environmental Stewardship Agreements:**
-  Higher Level Stewardship (HLS)
-  Entry Level Stewardship (ELS)
-  Organic ELS
-  Organic ELS plus HLS
-  ELS plus HLS

Stewardship data supplied by Natural England. Ownership data supplied by the Woodland Trust, Forestry Commission, National Trust, Sussex Wildlife Trust and Royal Society for the Protection of Birds.

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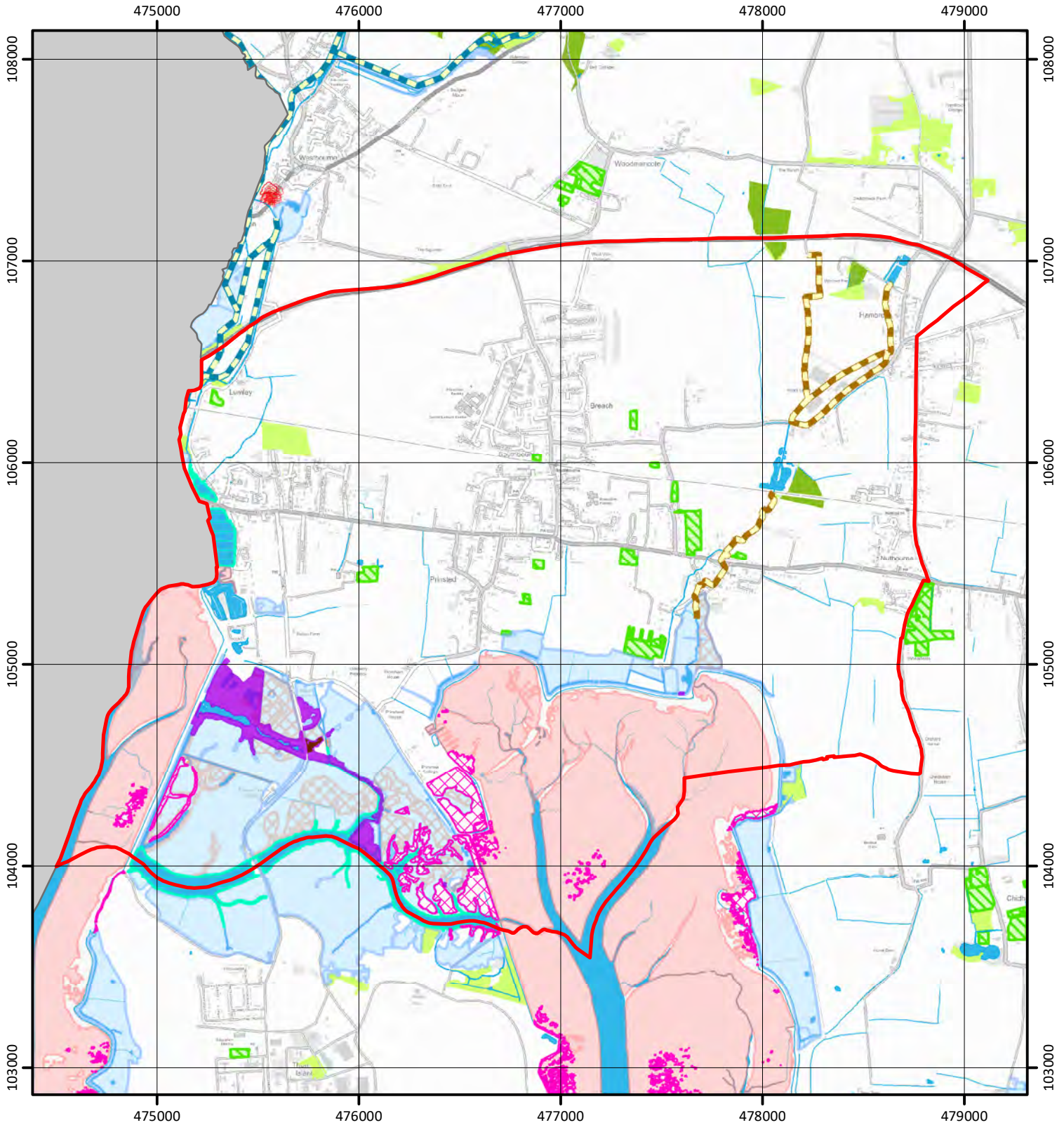




















# Map 4: Section 41 habitats and other

## Land at Southbourne Parish

SxBRC/20/189 - 14/07/2020

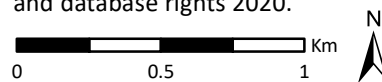


Key to Map:

- |   |  |
|---|--|
|  Parish boundary      |  Saline lagoon                      |
|  Land beyond Sussex   |  Coastal & floodplain grazing marsh |
|  Ancient/veteran tree |  Open Water                         |
|  Chalk stream         |  Traditional orchard                |
|  Chalk rivers         |  Lowland meadow                     |
|  Lowland fen          |  Ancient woodland                   |
|  Reedbed              |  Deciduous woodland                 |
|  Coastal saltmarsh    |  |
|  Intertidal mudflat   |  |

Ancient woodland, and section 41 habitat data supplied by Natural England. Contains public sector information licenced under the Open Government Licence v.3.0. Additional contributors of habitat data include Sussex Wildlife Trust, South Downs Conservation Board, Environment Agency, Sussex Wetlands Landscapes Project, WSSC, RSPB, High Weald AONB Unit, Ancient Tree Hunt, and Tree Register of the British Isles.

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# Species Data

Data presented on the following pages are from 1980 onwards and only include species which have a form of protection or designation.

The following designations have been used:

Abbreviation	Designation
Birds Dir A1	Birds Directive Annex 1
Hab Dir A2 P	Habitats Directive Annex 2 Priority Species
Hab Dir A2 NP	Habitats Directive Annex 2 Non-Priority Species
Hab Dir A4	Habitats Directive Annex 4
Hab Reg Sch2	Conservation of Habitats & Species Regulations 2010 Schedule 2
Hab Reg Sch5	Conservation of Habitats & Species Regulations 2010 Schedule 5
WCA	Wildlife & Countryside Act 1981
NERC S41	Natural Environment & Rural Communities Act 2006 Section 41
UK BAP	UK Biodiversity Action Plan Priority Species
Red List	IUCN Red list
Rare/Scarce	Nationally rare or scarce (formerly Nationally Notable)
Sussex Rare	Sussex Rare Species Inventory
BoCC Red	Birds of Conservation Concern 4: Red list
BoCC Amber	Birds of Conservation Concern 4: Amber list
Notable Bird	Sussex Notable Bird List

Details of each designation can be found in the annex of supporting information at the end of this report.

Invasive non-native species records, which are also relevant to the planning process, appear in a separate table to the above.

## Confidential records

**Badger and otter records are not included in our reports.**

### Badgers

Local badger groups have requested that badger records remain confidential. If you need further information about badgers in your enquiry area please visit the Badger Trust website:

[www.badger.org.uk](http://www.badger.org.uk)

Please be aware that there are several local groups covering different geographic areas within Sussex.

### Otters

Otters became extinct in Sussex and many other parts of the UK in the late 1960s. This was a result of deteriorating water quality due to industrial and agricultural pollution, along with hunting and habitat degradation. Recent improvements to the state of watercourses and a reduction in persecution have led to the slow return of the otter to the South East. Sussex has over 4,500km of rivers and tributaries. There are no recent breeding otter records and very few resident otters in Sussex. Over the last 20 years however, signs of otter activity have been found in most of the Sussex river catchments.

If there is a river or tributary within 1km of your search area please be aware of the potential for otters in the vicinity, especially if you are undertaking operations that may impact potential otter habitat, or if your work includes Highways operations.

## Sensitive records

### Wood White and Duke of Burgundy

These two rare butterfly species have a very restricted range in Sussex and so records are reported at a 1km resolution on advice from Butterfly Conservation Sussex Branch.

## Table 1: Summary protected and designated species records (excluding bats and birds)

This table summarises records from 1980 onwards. See table 2 for detailed records.

See tables 3 & 4 for bat records, tables 5 & 6 for bird records and tables 7 & 8 for invasive non-native species.

Maximum abundance = highest total number of species recorded at one time.

N.B. Where 'Present' appears in abundance column, no single numerical figure for abundance was provided with the record.

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<b>Amphibians</b>								
<i>Bufo bufo</i>	Common Toad		WCA Sch5 s9.5a, NERC S41	UK BAP Priority	20/07/2017	31/05/2018	2	1
<i>Rana temporaria</i>	Common Frog		WCA Sch5 s9.5a		11/02/1993	2013	10	25
<b>Fish - Bony</b>								
<i>Anguilla anguilla</i>	European Eel		NERC S41	UK BAP Priority, RedList Global post2001 CR	16/10/2001	07/06/2007	2	55
<i>Cottus gobio</i>	Bullhead	Hab Dir A2 NP		Sussex Rare	16/10/2001	16/10/2001	1	16
<i>Salmo trutta</i>	Brown/Sea Trout		NERC S41	UK BAP Priority	16/10/2001	22/07/2019	3	7
<b>Higher Plants - Flowering Plants</b>								
<i>Althaea officinalis</i>	Marsh-mallow			RedList ENG post2001 NT, Nat Scarce, Sussex Rare	20/09/1981	20/09/1981	2	1
<i>Anacamptis morio</i>	Green-winged Orchid			RedList GB post2001 NT, RedList ENG post2001 VU	03/05/2006	30/04/2011	6	1
<i>Artemisia absinthium</i>	Wormwood			Sussex Rare	01/07/2006	01/07/2006	1	1
<i>Bupleurum tenuissimum</i>	Slender Hare's-ear		NERC S41	UK BAP Priority, RedList GB post2001 VU, RedList ENG post2001 VU, Nat Scarce, Sussex Rare	05/09/1987	12/08/2019	15	2
<i>Buxus sempervirens</i>	Box			RedList GB post2001 DD, RedList ENG post2001 DD, Nat Rare, Sussex Rare	07/08/2014	07/08/2014	1	1
<i>Calamagrostis epigejos</i>	Wood Small-reed			Sussex Rare	20/06/1995	20/06/1995	1	1



Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Carex divisa</i>	Divided Sedge		NERC S41	UK BAP Priority, RedList GB post2001 VU, Nat Scarce, Sussex Rare	15/07/1984	14/05/2008	11	1
<i>Chamaemelum nobile</i>	Chamomile		NERC S41	UK BAP Priority, RedList GB post2001 VU, RedList ENG post2001 VU, Sussex Rare	28/09/1994	28/09/1994	1	Present
<i>Cruciata laevipes</i>	Crosswort			RedList ENG post2001 NT	13/07/2009	17/05/2010	3	1
<i>Daucus carota subsp. gummifer</i>	Sea Carrot			Nat Scarce	11/07/2006	11/07/2006	1	1
<i>Erysimum cheiranthoides</i>	Treacle-mustard			RedList ENG post2001 NT	17/08/2005	17/08/2005	1	1
<i>Euphorbia exigua</i>	Dwarf Spurge			RedList GB post2001 NT, RedList ENG post2001 VU	13/07/2009	13/07/2009	1	1
<i>Euphorbia platyphyllos</i>	Broad-leaved Spurge			Sussex Rare	21/08/2011	21/08/2011	1	1
<i>Euphrasia nemorosa</i>	Eyebright			RedList ENG post2001 NT	28/09/1994	28/09/1994	1	Present
<i>Fragaria vesca</i>	Wild Strawberry			RedList ENG post2001 NT	15/08/2004	21/08/2011	2	1
<i>Frankenia laevis</i>	Sea-heath			RedList GB post2001 NT, RedList ENG post2001 NT, Nat Scarce, Sussex Rare	22/08/2017	12/08/2019	2	1
<i>Galium uliginosum</i>	Fen Bedstraw			Sussex Rare	04/07/1991	04/07/1991	1	Present
<i>Genista tinctoria</i>	Dyer's Greenweed			RedList ENG post2001 VU	15/07/1984	12/08/2019	16	1
<i>Genista tinctoria subsp. tinctoria</i>	Dyer's Greenweed			RedList ENG post2001 VU	02/06/2004	06/04/2012	3	1
<i>Hieracium piligerum</i>	Hawkweed			RedList ENG post2001 CR	15/07/1984	18/07/1991	3	1
<i>Hippophae rhamnoides</i>	Sea-buckthorn			Nat Scarce, Sussex Rare	1993	11/07/2006	5	1
<i>Hyacinthoides non-scripta</i>	Bluebell		WCA Sch8		01/07/2006	09/05/2019	18	1

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Inula crithmoides</i>	Golden-samphire			Nat Scarce, Sussex Rare	05/09/1987	12/08/2019	9	1
<i>Juncus maritimus</i>	Sea Rush			Sussex Rare	05/09/1987	21/08/2011	11	1
<i>Juncus subnodulosus</i>	Blunt-flowered Rush			Sussex Rare	20/09/1981	20/09/1981	1	1
<i>Knautia arvensis</i>	Field Scabious			RedList ENG post2001 NT	02/08/2005	30/08/2012	2	1
<i>Lepidium heterophyllum</i>	Smith's Pepperwort			Sussex Rare	15/08/2004	15/08/2004	1	1
<i>Limonium humile</i>	Lax-flowered Sea-lavender			Nat Scarce, Sussex Rare	15/07/1984	02/08/2005	14	1
<i>Limonium vulgare</i>	Common Sea-lavender			RedList ENG post2001 NT	20/09/1981	22/09/2005	11	1
<i>Lythrum hyssopifolia</i>	Grass-poly		WCA Sch8, NERC S41	UK BAP Priority, RedList GB post2001 EN, RedList ENG post2001 EN, Nat Rare, Sussex Rare	05/09/1987	1990	2	1
<i>Misopates orontium</i>	Weasel's-snout			RedList GB post2001 VU, RedList ENG post2001 VU, Sussex Rare	2001	2001	1	1
<i>Oenanthe fistulosa</i>	Tubular Water-dropwort		NERC S41	UK BAP Priority, RedList GB post2001 VU, RedList ENG post2001 VU	09/05/2019	09/05/2019	1	1
<i>Oenanthe lachenalii</i>	Parsley Water-dropwort			RedList ENG post2001 NT	15/08/2004	14/06/2006	2	1
<i>Ononis spinosa</i>	Spiny Restharrow			RedList ENG post2001 NT	20/09/1981	15/08/2004	12	1
<i>Petroselinum segetum</i>	Corn Parsley			Sussex Rare	12/08/2003	30/08/2012	2	1
<i>Plantago media</i>	Hoary Plantain			RedList ENG post2001 NT	02/05/2009	02/05/2009	1	1
<i>Poa infirma</i>	Early Meadow-grass			Nat Scarce, Sussex Rare	14/04/2010	22/03/2011	3	1
<i>Polypogon monspeliensis</i>	Annual Beard-grass			Nat Scarce, Sussex Rare	15/08/2004	15/08/2004	1	1
<i>Potentilla erecta</i>	Tormentil			RedList ENG post2001 NT	28/09/1994	02/08/2005	2	1

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Potentilla palustris</i>	Marsh Cinquefoil			RedList ENG post2001 NT	11/04/2019	02/05/2019	4	1
<i>Prunus cerasus</i>	Dwarf Cherry			RedList ENG post2001 NT	25/04/2019	25/04/2019	1	1
<i>Puccinellia fasciculata</i>	Borrer's Saltmarsh-grass		NERC S41	UK BAP Priority, RedList GB post2001 VU, RedList ENG post2001 NT, Nat Scarce, Sussex Rare	05/09/1987	2002	2	1
<i>Puccinellia rupestris</i>	Stiff Saltmarsh-grass			Nat Scarce, Sussex Rare	1993	19/06/2004	2	1
<i>Ranunculus flammula</i>	Lesser Spearwort			RedList ENG post2001 VU	28/09/1994	28/09/1994	1	Present
<i>Ruppia maritima</i>	Beaked Tasselweed			RedList ENG post2001 NT	15/07/1984	15/08/2004	7	1
<i>Salicornia dolichostachya</i>	Long-spiked Glasswort			Sussex Rare	1997	1997	1	1
<i>Salicornia fragilis</i>	Yellow Glasswort			Nat Scarce, Sussex Rare	05/09/1987	21/08/2011	7	1
<i>Salicornia pusilla</i>	One-flowered Glasswort			Nat Scarce, Sussex Rare	05/09/1987	15/08/2004	3	1
<i>Sarcocornia perennis</i>	Perennial Glasswort			Nat Scarce, Sussex Rare	1997	15/08/2004	8	1
<i>Senecio aquaticus</i>	Marsh Ragwort			RedList ENG post2001 NT	04/07/1991	28/09/1994	2	Present
<i>Seriphidium maritimum</i>	Sea Wormwood			RedList ENG post2001 NT	20/09/1981	14/05/2008	7	1
<i>Spergula arvensis</i>	Corn Spurrey			RedList GB post2001 VU, RedList ENG post2001 VU	15/07/1984	26/06/1990	2	1
<i>Spiranthes spiralis</i>	Autumn Lady's-tresses			RedList GB post2001 NT, RedList ENG post2001 NT	28/09/1994	28/08/2011	9	1
<i>Succisa pratensis</i>	Devil's-bit Scabious			RedList ENG post2001 NT	28/09/1994	28/09/1994	1	Present
<i>Tilia platyphyllos</i>	Large-leaved Lime			Nat Scarce, Sussex Rare	13/07/2009	02/05/2019	3	1
<i>Trifolium fragiferum</i>	Strawberry Clover			RedList ENG post2001 VU	20/09/1981	05/08/2014	12	1

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Triglochin palustre</i>	Marsh Arrowgrass			RedList ENG post2001 NT	20/09/1981	20/09/1981	1	1
<i>Veronica officinalis</i>	Heath Speedwell			RedList ENG post2001 NT	09/06/2009	09/06/2009	1	1
<i>Viola canina</i>	Heath Dog-violet			RedList GB post2001 NT, RedList ENG post2001 VU	1994	1994	1	1
<b>Invertebrates - Ants, Bees, Sawflies &amp; Wasps</b>								
<i>Andrena labiata</i>	Red-girdled Mining Bee			Notable A, Sussex Rare	17/05/2007	17/05/2007	1	Present
<i>Andrena minutuloides</i>	Plain Mini-miner			Notable A, Sussex Rare	25/07/1992	25/07/1992	1	Present
<i>Andrena nitidiuscula</i>	Carrot Mining Bee			RedList GB Pre94 R, Sussex Rare	07/09/1985	18/09/1997	9	1
<i>Bombus humilis</i>	Brown-banded Carder-bee		NERC S41	UK BAP Priority, Sussex Rare	02/08/2009	02/08/2009	1	Present
<i>Bombus muscorum</i>	Moss Carder-bee		NERC S41	UK BAP Priority	01/08/1985	14/08/1994	6	1
<i>Chalcis biguttata</i>	An Ant, Bee, Sawfly or Wasp			Sussex Rare	01/07/1997	01/07/1997	2	1
<i>Chalcis sispes</i>	An Ant, Bee, Sawfly or Wasp			Sussex Rare	01/07/1997	01/07/1997	1	1
<i>Chrysis gracillima</i>	An Ant, Bee, Sawfly or Wasp			RedList GB Pre94 VU, Sussex Rare	28/07/1996	20/05/2007	5	1
<i>Colletes marginatus</i>	Margined Colletes			Notable A, Sussex Rare	01/07/1997	18/09/1997	2	1
<i>Dolichovespula media</i>	An Ant, Bee, Sawfly or Wasp			Notable A, Sussex Rare	17/07/2004	02/08/2009	2	1
<i>Dolichovespula saxonica</i>	An Ant, Bee, Sawfly or Wasp			RedList GB Pre94 Insu, Sussex Rare	02/08/2009	02/08/2009	1	Present
<i>Ectemnius borealis</i>	An Ant, Bee, Sawfly or Wasp			RedList GB Pre94 R, Sussex Rare	07/06/1997	07/06/1997	1	Present
<i>Ectemnius ruficornis</i>	An Ant, Bee, Sawfly or Wasp			Notable B, Sussex Rare	01/07/1997	01/07/1997	1	1
<i>Eumenes coarctatus</i>	Heath Potter Wasp			Notable A, Sussex Rare	12/08/1995	12/08/1995	2	Present
<i>Heriades truncorum</i>	Ridge-saddled Carpenter Bee			RedList GB Pre94 Insu, Sussex Rare	01/08/1991	02/08/2009	19	1
<i>Hylaeus pictipes</i>	Little Yellow-face Bee			Notable A, Sussex Rare	08/06/1997	08/06/1997	1	Present
<i>Lasioglossum malachurum</i>	Sharp-collared Furrow Bee			Notable B, Sussex Rare	07/09/1985	09/06/2007	23	3
<i>Lasioglossum pauxillum</i>	Lobe-spurred Furrow Bee			Notable A, Sussex Rare	19/07/1998	19/05/2007	3	Present
<i>Megachile leachella</i>	Silvery Leafcutter Bee			Notable B, Sussex Rare	28/07/1996	09/06/2007	3	Present
<i>Melitta tricincta</i>	Red Bartsia Blunthorn Bee			Notable B, Sussex Rare	01/08/1985	22/08/2017	12	2
<i>Microdynerus exilis</i>	An Ant, Bee, Sawfly or Wasp			Notable B, Sussex Rare	01/07/1997	19/07/1998	5	1

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Mimumesa littoralis</i>	An Ant, Bee, Sawfly or Wasp			RedList GB Pre94 R, Notable A, Sussex Rare	07/09/1985	07/09/1985	2	1
<i>Monosapyga clavicornis</i>	An Ant, Bee, Sawfly or Wasp			Notable B, Sussex Rare	07/06/1997	21/06/1998	3	Present
<i>Myrmica specioides</i>	An Ant, Bee, Sawfly or Wasp			RedList GB Pre94 R, Sussex Rare	06/09/1994	06/09/1994	1	Present
<i>Nomada flavopicta</i>	Blunthorn Nomad Bee			Notable B, Sussex Rare	01/07/1997	01/07/1997	1	1
<i>Nomada fucata</i>	Painted Nomad Bee			Notable A, Sussex Rare	01/08/1991	29/05/2009	11	1
<i>Odynerus melanocephalus</i>	Black-headed Mason Wasp		NERC S41	UK BAP Priority, Notable A	17/05/2007	19/05/2007	2	Present
<i>Osmia leaiana</i>	Orange-vented Mason Bee			Sussex Rare	31/05/1998	20/05/2007	3	Present
<i>Pemphredon lethifer</i>	Little Black Wasp			RedList GB Pre94 R	07/06/1997	23/07/2012 - 23/08/2012	6	1
<i>Philanthus triangulum</i>	Bee Wolf			RedList GB Pre94 VU, Sussex Rare	15/07/1994	1996	4	Present
<i>Priocnemis confusor</i>	An Ant, Bee, Sawfly or Wasp			Notable B, Sussex Rare	07/09/1985	07/09/1985	2	1
<i>Sphecodes crassus</i>	Swollen-thighed Blood Bee			Notable B, Sussex Rare	07/09/1985	09/06/2007	4	1
<i>Sphecodes rubicundus</i>	Red-tailed Blood Bee			Notable A, Sussex Rare	07/06/1997	07/06/1997	1	Present
<i>Stelis breviscula</i>	Little Dark Bee			RedList GB Pre94 Insu, Sussex Rare	01/08/1991	02/08/2009	12	1
<i>Tiphia minuta</i>	Small Tiphia			Notable B, Sussex Rare	07/06/1997	08/06/1997	2	Present
<b>Invertebrates - Beetles</b>								
<i>Agabus bipustulatus</i>	A Beetle			Sussex Rare	1992	1992	4	1
<i>Agabus conspersus</i>	A Beetle			Nat Scarce, Notable B, Sussex Rare	1992	1992	2	1
<i>Agabus nebulosus</i>	A Beetle			Sussex Rare	1992	1992	3	1
<i>Bembidion iricolor</i>	A Beetle			Nat Scarce, Sussex Rare	08/07/1985	1991	2	1
<i>Bembidion normannum</i>	A Beetle			Nat Scarce	11/07/1985	11/07/1985	1	1
<i>Cassida vittata</i>	Bordered Tortoise Beetle			Sussex Rare	08/07/1985	01/07/1997	5	1
<i>Ceutorhynchus pectoralis</i>	A Beetle			Notable A, Sussex Rare	01/07/1997	01/07/1997	1	1
<i>Chrysolina oricalcia</i>	A Beetle			Notable B, Sussex Rare	06/04/2012	03/07/2013	3	1
<i>Cordicollis instabilis</i>	A Beetle			Nat Scarce	01/07/1997	01/07/1997	2	1
<i>Crudosilis ruficollis</i>	A Beetle			Sussex Rare	10/07/1985	10/07/1985	1	1
<i>Cyclodinus constrictus</i>	A Beetle			Nat Scarce, Sussex Rare	08/07/1985	1991	4	1
<i>Demetrias imperialis</i>	A Beetle			Notable B, Sussex Rare	08/07/1985	1992	5	1

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Dicheirotichus obsoletus</i>	A Beetle			Nat Scarce, Notable B, Sussex Rare	11/07/1985	11/07/1985	1	1
<i>Enochrus bicolor</i>	A Beetle			Nat Scarce, Sussex Rare	1991	1991	2	1
<i>Enochrus halophilus</i>	A Beetle			Nat Scarce, Sussex Rare	1991	1992	4	1
<i>Exapion difficile</i>	A Beetle			Notable A, Sussex Rare	1991	18/09/1997	4	1
<i>Gyrinus natator</i>	A Beetle			RedList GB post2001 RE	22/07/2012	22/07/2012	1	Present
<i>Helochares lividus</i>	A Beetle			Sussex Rare	1992	1992	2	1
<i>Helops caeruleus</i>	A Beetle			Nat Scarce, Notable B, Sussex Rare	06/04/2012	06/04/2012	3	1
<i>Lucanus cervus</i>	Stag Beetle	Hab Dir A2 NP	WCA Sch5 s9.5a, NERC S41	UK BAP Priority, Nat Scarce, Notable B, Sussex Rare	17/07/1998	22/06/2019	25	5
<i>Neocrepidodera impressa</i>	A Beetle			Nat Rare, Notable A, Sussex Rare	1991	1991	3	1
<i>Ochthebius marinus</i>	A Beetle			Sussex Rare	01/07/1997	01/07/1997	2	1
<i>Ochthebius punctatus</i>	A Beetle			Nat Scarce, Notable B, Sussex Rare	1991	1991	3	1
<i>Oxystoma cerdo</i>	A Beetle			Notable B, Sussex Rare	1991	1991	2	1
<i>Protapion ononidis</i>	A Beetle			Sussex Rare	1991	1991	3	1
<i>Pseudovadonia livida</i>	A Beetle			Sussex Rare	08/07/1985	01/07/1997	10	1
<i>Sibinia arenariae</i>	A Beetle			Notable B, Sussex Rare	1991	22/08/2017	3	1
<i>Tychius pusillus</i>	A Beetle			Notable B, Sussex Rare	10/07/1985	10/07/1985	1	1
<i>Variimorda villosa</i>	A Beetle			Nat Scarce, Notable B, Sussex Rare	01/07/1997	01/07/1997	4	1
<b>Invertebrates - Butterflies</b>								
<i>Apatura iris</i>	Purple Emperor		WCA Sch5 s9.5a	RedList GB post2001 NT, Sussex Rare	29/07/2010	29/07/2010	1	1
<i>Coenonympha pamphilus</i>	Small Heath		NERC S41	UK BAP Priority, RedList GB post2001 NT	1991	22/08/2017	180	100
<i>Coenonympha pamphilus pamphilus</i>	Small Heath		NERC S41	UK BAP Priority, RedList GB post2001 NT	30/08/2016	30/08/2016	1	5

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Lasiommata megera</i>	Wall		NERC S41	UK BAP Priority, RedList GB post2001 NT	1991	31/05/2006	103	1
<i>Nymphalis polychloros</i>	Large Tortoiseshell		WCA Sch5 s9.5a	RedList GB post2001 RE, Sussex Rare	30/04/1999	30/04/1999	1	Present
<i>Polyommatus coridon</i>	Chalk Hill Blue		WCA Sch5 s9.5a	RedList GB post2001 NT	01/08/2000	23/07/2001	4	1
<i>Pyrgus malvae</i>	Grizzled Skipper		NERC S41	UK BAP Priority, RedList GB post2001 VU	06/04/2012	08/05/2012	2	1
<i>Satyrium w-album</i>	White-letter Hairstreak		WCA Sch5 s9.5a, NERC S41	UK BAP Priority, RedList GB post2001 EN	1996 - 2000	12/07/2010	3	2
<b>Invertebrates - Dragonflies &amp; Damselflies</b>								
<i>Coenagrion pulchellum</i>	Variable Coenagrion			RedList GB post2001 NT, Sussex Rare	02/05/2019	02/05/2019	1	1
<i>Erythromma viridulum</i>	Small Red-eyed Damselfly			Sussex Rare	30/08/2010	09/08/2012	2	1
<b>Invertebrates - Grasshoppers &amp; Crickets</b>								
<i>Conocephalus fuscus</i>	Long-winged Cone-head			Sussex Rare	01/08/1991	22/08/2017	6	1
<b>Invertebrates - Molluscs</b>								
<i>Cerastoderma glaucum</i>	Lagoon Cockle			Sussex Rare	12/03/1998	18/06/2001 - 18/09/2001	2	1
<i>Ostrea edulis</i>	Common Oyster		NERC S41	UK BAP Priority	22/08/2017	22/08/2017	1	1
<b>Invertebrates - Moths</b>								
<i>Acronicta rumicis</i>	Knot Grass		NERC S41	UK BAP Priority	1991	23/07/2012 - 14/08/2012	2	2
<i>Amphipoea fucosa paludis</i>	Saltern Ear			Sussex Rare	1991	1991	4	1
<i>Amphipoea oculea</i>	Ear Moth		NERC S41	UK BAP Priority	17/07/1989	1991	4	4
<i>Amphipyra tragopoginis</i>	Mouse Moth		NERC S41	UK BAP Priority	1991	1991	3	1
<i>Apamea remissa</i>	Dusky Brocade		NERC S41	UK BAP Priority	1991	1991	1	1
<i>Arctia caja</i>	Garden Tiger		NERC S41	UK BAP Priority	1991	05/08/2018	6	1
<i>Caradrina morpheus</i>	Mottled Rustic		NERC S41	UK BAP Priority	1991	1991	3	3
<i>Chilodes maritima</i>	Silky Wainscot			Sussex Rare	17/07/1989	1991	3	2
<i>Cirrhia icteritia</i>	Sallow		NERC S41	UK BAP Priority	1991	1991	1	1
<i>Coleophora conyzae</i>	Spikenard Case-bearer			Sussex Rare	09/06/1990	09/06/1990	1	1

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Coleophora vibicella</i>	Large Gold Case-bearer		NERC S41	UK BAP Priority, Sussex Rare	07/08/1983	13/07/2018	35	1621
<i>Cucullia asteris</i>	Star-wort			Sussex Rare	01/08/1991	27/08/1993	2	15
<i>Diarsia rubi</i>	Small Square-spot		NERC S41	UK BAP Priority	1991	1991	1	1
<i>Dolicharthria punctalis</i>	Long-legged China-mark			Notable B, Sussex Rare	1991	1991	3	1
<i>Ennomos erosaria</i>	September Thorn		NERC S41	UK BAP Priority	23/07/2012 - 14/08/2012	23/07/2012 - 14/08/2012	1	1
<i>Eupithecia insigniata</i>	Pinion-spotted Pug			Sussex Rare	1991	1991	2	1
<i>Euxoa tritici</i>	Dusky Dart		NERC S41	UK BAP Priority	1991	1991	3	1
<i>Globia sparganii</i>	Webb's Wainscot			Sussex Rare	17/07/1989	1991	5	1
<i>Helotropha leucostigma</i>	Crescent		NERC S41	UK BAP Priority, Sussex Rare	17/07/1989	1991	6	6
<i>Hepialus humuli</i>	Ghost Moth		NERC S41	UK BAP Priority	1991	1991	1	1
<i>Hoplodrina blanda</i>	Rustic		NERC S41	UK BAP Priority	17/07/1989	26/07/2011	6	6
<i>Hydraecia micacea</i>	Rosy Rustic		NERC S41	UK BAP Priority	1991	23/08/2011	4	2
<i>Lacanobia suasa</i>	Dog's Tooth			Sussex Rare	1991	1991	2	1
<i>Leucania comma</i>	Shoulder-striped Wainscot		NERC S41	UK BAP Priority	1991	23/07/2012 - 14/08/2012	2	1
<i>Leucania obsoleta</i>	Obscure Wainscot			Sussex Rare	1991	1991	2	1
<i>Litoligia literosa</i>	Rosy Minor		NERC S41	UK BAP Priority	1991	26/07/2011	2	2
<i>Malacosoma neustria</i>	Lackey		NERC S41	UK BAP Priority	1991	1991	1	1
<i>Meganola albula</i>	Kent Black Arches			Sussex Rare	1991	1991	4	3
<i>Melanchra persicariae</i>	Dot Moth		NERC S41	UK BAP Priority	1991	1991	1	1
<i>Mirificarma lentiginosella</i>	Greenweed Groundling			Notable, Sussex Rare	18/06/1980	24/08/2011	5	3
<i>Monochroa moyses</i>	Coast Neb			Notable, Sussex Rare	26/08/1989	12/10/1997	5	4
<i>Mythimna l-album</i>	L-album Wainscot			Sussex Rare	21/06/2019	22/06/2019	2	1
<i>Orthosia gracilis</i>	Powdered Quaker		NERC S41	UK BAP Priority	1991	1991	1	1
<i>Pempelia genistella</i>	Gorse Knot-horn			Notable A, Sussex Rare	1991	1991	2	1
<i>Rhizedra lutosa</i>	Large Wainscot		NERC S41	UK BAP Priority	1991	1991	1	1
<i>Scopula emutaria</i>	Rosy Wave			Sussex Rare	24/08/2011	22/08/2017	2	1
<i>Scotopteryx chenopodiata</i>	Shaded Broad-bar		NERC S41	UK BAP Priority	1991	26/07/2010	5	4
<i>Sitochroa palealis</i>	Sulphur Pearl			Notable, Sussex Rare	1991	10/09/2008	10	12
<i>Spilosoma lubricipeda</i>	White Ermine		NERC S41	UK BAP Priority	1991	22/06/2019	2	1
<i>Spilosoma lutea</i>	Buff Ermine		NERC S41	UK BAP Priority	1991	22/06/2019	3	2
<i>Synaphe punctalis</i>	Long-legged Tabby			Notable B, Sussex Rare	1991	23/08/2011	5	1



Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Tholera decimalis</i>	Feathered Gothic		NERC S41	UK BAP Priority	1991	19/09/2011	2	1
<i>Timandra comae</i>	Blood-vein		NERC S41	UK BAP Priority	1991	13/07/2018	3	1
<i>Tyria jacobaeae</i>	Cinnabar		NERC S41	UK BAP Priority	29/05/1989	22/06/2019	12	30
<i>Watsonalla binaria</i>	Oak Hook-tip		NERC S41	UK BAP Priority	1991	23/07/2012 - 14/08/2012	2	1
<i>Xanthorhoe ferrugata</i>	Dark-barred Twin-spot Carpet		NERC S41	UK BAP Priority	1991	23/07/2012 - 14/08/2012	2	1
<b>Invertebrates - Sea Anemones, Jellyfish &amp; Corals</b>								
<i>Nematostella vectensis</i>	Starlet Sea Anemone		WCA Sch5 s9.1/s9.1 kill/s9.1 take/s9.4a/s9.4b/s9.4c/s9.5a, NERC S41	UK BAP Priority, RedList Global post94 VU, Sussex Rare	1980 - 2001	1980 - 2002	4	1
<b>Invertebrates - Segmented Worms</b>								
<i>Alkmaria romijni</i>	Tentacled Lagoon-Worm		WCA Sch5 s9.4a	Nat Scarce Marine, Sussex Rare	1980 - 2001	1980 - 2001	5	1
<b>Invertebrates - Spiders</b>								
<i>Arctosa fulvolineata</i>	Yellow-striped Bear-spider		NERC S41	UK BAP Priority, RedList GB post2001 NT, Nat Rare	07/06/2005	07/06/2005	1	1
<i>Argenna patula</i>	A Spider			Nat Scarce, Sussex Rare	01/08/1991	01/08/1991	2	1
<i>Argiope bruennichi</i>	Wasp Spider			Sussex Rare	1991	12/08/2019	11	30
<i>Cozyptila blackwalli</i>	A Spider			RedList GB post2001 EN, Nat Rare, Sussex Rare	01/08/1991	01/08/1991	1	1
<i>Drassodes pubescens</i>	A Spider			Nat Scarce	01/08/1991	01/08/1991	1	1
<i>Halorates reprobus</i>	A Spider			Nat Scarce	01/08/1991	01/08/1991	1	1
<i>Liocranoeca striata</i>	A Spider			Nat Scarce, Sussex Rare	01/08/1991	01/08/1991	1	Present
<i>Micaria albovittata</i>	A Spider			RedList GB post2001 VU, Nat Rare, Sussex Rare	01/08/1991	01/08/1991	1	1
<i>Pardosa agrestis</i>	A Spider			Nat Scarce, Sussex Rare	01/08/1991	01/08/1991	2	1
<i>Thanatus striatus</i>	A Spider			Nat Scarce	22/08/2017	22/08/2017	1	1
<b>Invertebrates - True Bugs</b>								
<i>Nysius graminicola</i>	A True Bug			RedList GB Pre94 R	31/08/2013	31/08/2013	1	1

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Orthotylus (Melanotrichus) moncreaffi</i>	A True Bug			RedList GB Pre94 R	1991	01/07/1997	3	1
<i>Orthotylus (Melanotrichus) rubidus</i>	Plant bug			Sussex Rare	1991	01/07/1997	5	1
<i>Pentastiridius leporinus</i>	A True Bug			Notable B, Sussex Rare	01/07/1997	18/09/1997	5	1
<i>Salda littoralis</i>	A True Bug			Nat Scarce	08/07/1985	1991	2	1
<i>Sigara (Halicorixa) selecta</i>	A True Bug			Nat Scarce	1991	1991	3	1
<b>Invertebrates - True Flies</b>								
<i>Aphrosylus mitis</i>	A True Fly			Nat Scarce	01/06/1990	01/06/1990	1	1
<i>Atylotus latistriatus</i>	Saltmarsh Horsefly			Nat Scarce, Sussex Rare	1991	18/09/1997	6	1
<i>Campiglossa malaris</i>	A True Fly			RedList GB Pre94 EN	23/07/2012 - 23/08/2012	23/07/2012 - 23/08/2012	1	1
<i>Ceratinostoma ostiorum</i>	A True Fly			Sussex Rare	1991	1991	1	1
<i>Dolichopus strigipes</i>	A True Fly			Nat Scarce, Sussex Rare	1991	1991	1	1
<i>Haematopota bigoti</i>	Big-spotted Cleg			Nat Scarce, Sussex Rare	1991	1991	1	1
<i>Haematopota grandis</i>	Long-horned Cleg			Nat Scarce, Sussex Rare	1991	1991	1	1
<i>Hybomitra expollicata</i>	Striped Horsefly			RedList GB post2001 NT, Nat Rare, Sussex Rare	1991	01/07/1997	2	1
<i>Melieria cana</i>	A True Fly			Notable	27/06/2008	27/06/2008	1	1
<i>Melieria picta</i>	A True Fly			Notable, Sussex Rare	1991	27/08/2009	7	1
<i>Merzomyia westermanni</i>	A True Fly			Notable, Sussex Rare	07/07/2010	07/07/2010	1	1
<i>Myopites apicatus</i>	A True Fly			RedList GB Pre94 R, Sussex Rare	23/07/2012	23/07/2012	1	1
<i>Myopites eximius</i>	A True Fly			RedList GB Pre94 R	31/08/2013	31/08/2013	1	2
<i>Nemotelus pantherinus</i>	Fen Snout			Nat Scarce	1991	1991	1	1
<i>Stratiomys longicornis</i>	Long-horned General			Nat Scarce, Sussex Rare	1991	30/05/2016	12	10
<i>Stratiomys potamida</i>	Banded General			Notable, Sussex Rare	1991	30/07/2008	2	1
<i>Stratiomys singularior</i>	Flecked General			Notable, Sussex Rare	07/09/1985	19/07/2013	21	5
<i>Thinophilus ruficornis</i>	A True Fly			Nat Scarce, Sussex Rare	1991	1991	1	1

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Vanoyia tenuicornis</i>	Long-horned Soldier			Nat Scarce, Notable, Sussex Rare	1991	1991	1	Present
<i>Volucella zonaria</i>	Hornet Mimic Hoverfly			Sussex Rare	26/06/2017	26/06/2017	1	1
<b>Lower Plants - Liverworts</b>								
<i>Ricciocarpos natans</i>	Fringed Heartwort			Sussex Rare	14/10/2010	14/10/2010	2	1
<b>Lower Plants - Stoneworts</b>								
<i>Lamprothamnium papulosum</i>	Foxtail Stonewort		WCA Sch8, NERC S41	UK BAP Priority, RedList GB post2001 NT, Sussex Rare	01/07/1998	01/07/1998	2	1
<b>Mammals - Terrestrial (excl. bats)</b>								
<i>Arvicola amphibius</i>	European Water Vole		WCA Sch5 s9.4a/s9.4b/s9.4c, NERC S41	UK BAP Priority, RedList GB post2001 EN, Sussex Rare	01/06/1998	29/07/2019	17	4
<i>Erinaceus europaeus</i>	West European Hedgehog		NERC S41	UK BAP Priority, RedList GB post2001 VU	2006	14/04/2020	38	3
<i>Mustela putorius</i>	Polecat		NERC S41	UK BAP Priority	06/04/2012	06/04/2013	2	1
<i>Mustela putorius subsp. furo</i>	Feral Ferret		NERC S41	UK BAP Priority	31/03/2006	31/03/2006	1	1
<i>Oryctolagus cuniculus</i>	European Rabbit			RedList Global post2001 NT	04/03/1982	12/09/2019	8	6
<b>Reptiles</b>								
<i>Anguis fragilis</i>	Slow-worm		WCA Sch5 s9.1/s9.1 kill/s9.5a, NERC S41	UK BAP Priority	06/09/1999	26/05/2018	76	40
<i>Natrix helvetica</i>	Grass Snake		WCA Sch5 s9.1/s9.1 kill/s9.5a, NERC S41	UK BAP Priority	01/06/1999	22/07/2019	3	2
<i>Zootoca vivipara</i>	Common Lizard		WCA Sch5 s9.1/s9.1 kill/s9.5a, NERC S41	UK BAP Priority	24/07/1993	08/07/2017	9	2

## Table 2: Protected and designated species records (excluding bats and birds)

Records in the table are from 1980 onwards.

See tables 3 & 4 for bat records, tables 5 & 6 for bird records and tables 7 & 8 for invasive non-native species.

N.B. Where 'Present' appears in abundance column, no single numerical figure for abundance was provided with the record.

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
<b>Amphibians</b>						
<i>Bufo bufo</i>	Common Toad	31/05/2018	SU77020557	Southbourne	Present	Field Observation
		20/07/2017	SU77020556	Southbourne CP, southbourne	1 Adult	Field Observation
<i>Rana temporaria</i>	Common Frog	2013	SU772066	Orchard end of Breach Avenue, Southbourne	2 Present	Field Observation
		22/09/2000	SU754059	Emsworth, Land between Lumley Road & Orchard Lane, Emsworth	1 Present	Field Observation
		09/09/2000	SU754059	Emsworth, Land between Lumley Road & Orchard Lane, Emsworth	1 Present	Field Observation
		06/09/1999	SU768058	40 The Drive, Southbourne	Present	Field Observation
		17/03/1996	SU757048	Thorney Island	25 Present	Field Observation
		17/03/1996	SU757048	Thorney Island	Present	Field Observation
		17/03/1996	SU758054	Thorney Island	6 Present	Field Observation
		17/03/1996	SU758054	Thorney Island	Present	Field Observation
		11/02/1993	SU755049	Thorney Island Little Deep Area	10 Present	Field Observation
		11/02/1993	SU755049	Thorney Island Little Deep Area	Present	Field Observation
<b>Fish - Bony</b>						
<i>Anguilla anguilla</i>	European Eel	07/06/2007	SU7529806491	River Ems, Lumley Mill sq	19 Present	Electric Fishing
		16/10/2001	SU7770005200	Hambrook, Nutbourne sq	55 Present	Electric Fishing
<i>Cottus gobio</i>	Bullhead	16/10/2001	SU7770005200	Hambrook, Nutbourne sq	16 Present	Electric Fishing
<i>Salmo trutta</i>	Brown/Sea Trout	22/07/2019	SU752062	Lumley	4 Present	Field Observation
		07/06/2007	SU7529806491	River Ems, Lumley Mill sq	7 Present	Electric Fishing
		16/10/2001	SU7770005200	Hambrook, Nutbourne sq	7 Present	Electric Fishing
<b>Higher Plants - Flowering Plants</b>						
<i>Althaea officinalis</i>	Marsh-mallow	20/09/1981	SU77660508	Nutbourne Marsh	Present	Field Observation
		20/09/1981	SU7766305086	Nutbourne Marsh, Nutbourne Marshes	1	Field Observation
<i>Anacamptis morio</i>	Green-winged Orchid	30/04/2011	SU750043	Thorney Island	Present	Field Observation
		05/05/2010	SU750043	Eames Farm, Thorney Island	Present	Field Observation
		26/04/2009	SU750043	Eames Farm	Present	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		02/05/2008	SU750043	Eames Farm	Present	Field Observation
		03/05/2007	SU750043	Eames Farm,	Present	Field Observation
		03/05/2006	SU750043	Eames Farm	Present	Field Observation
<i>Artemisia absinthium</i>	Wormwood	Jul-06	SU767066	Southbourne North	Present	Field Observation
<i>Bupleurum tenuissimum</i>	Slender Hare's-ear	12/08/2019	SU765042	Thornham Point - C113	O DAFOR	LWS Survey
		20/08/2013	SU7505804456	Thorney Island W side	Present	Field Observation
		20/08/2013	SU7507204497	Thorney Island W side	Present	Field Observation
		20/08/2013	SU7507704489	Thorney Island W side	Present	Field Observation
		20/08/2013	SU7512104600	Thorney Island W side	Present	Field Observation
		20/08/2013	SU7514204649	Thorney Island W side	Present	Field Observation
		20/08/2013	SU7514504655	Thorney Island W side	Present	Field Observation
		24/09/2008	SU76670507	Southbourne CP, Southbourne	Present	Field Observation
		15/08/2004	SU76360438	Near Thornham Point	Present	Field Observation
		02/08/2002	SU74880408	Thorney Island, Emsworth, S end of Wickor Bank, 10m N of 'plughole'	Present	Field Observation
		1997	SU749041	Thorney Island	Present	Field Observation
		1994	SU754049	Hermitage	Present	Field Observation
		1992	SU764044	TI northern fields EF MOD, eastern sea wall		Field Observation
		1990	SU7503	Thorney island	2 Present	Field Observation
		05/09/1987	SU7504	Thorney, NW		Field Observation
<i>Buxus sempervirens</i>	Box	07/08/2014	SU759053	New Life Christian Church	Present	Unknown
<i>Calamagrostis epigejos</i>	Wood Small-reed	20/06/1995	SU766036	Thorney NE, Thorney Island - North Eastern area	1	Field Observation
<i>Carex divisa</i>	Divided Sedge	14/05/2008	SU75680488	Near Slipper Hovel	Present	Field Observation
		17/07/2001	SU781045	Nutbourne	Present	Field Observation
		17/09/1996	SU77660508	Nutbourne Marsh	Present	Field Observation
		17/09/1996	SU7766305086	Nutbourne Marsh		Field Observation
		17/09/1996	SU7766305086	Nutbourne Marsh	1	Field Observation
		1994	SU758048	Hermitage	Present	Field Observation
		1991	SU760040	Thorney Island	Present	Field Observation
		18/07/1991	SU764044	TI northern fields EF MOD, Eames Farm MOD field	1	Field Observation
		1988	SU751046	Thorney Island	Present	Field Observation
		15/07/1984	SU755045	Thornham Lane, sea wall and fields, Thorney Island		Field Observation
		15/07/1984	SU7649304321	Thornham Point	1	Field Observation
<i>Chamaemelum nobile</i>	Chamomile	28/09/1994	SU7503	Westbourne Common		Field Observation
<i>Cruciata laevipes</i>	Crosswort	17/05/2010	SU70T	Woodmancote area	Present	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		16/09/2009	SU70X	Chidham	Present	Field Observation
		13/07/2009	SU70Y	Hambrook area	Present	Field Observation
<i>Daucus carota subsp. gummifer</i>	Sea Carrot	11/07/2006	SU753056	By Slipper Pond	Present	Field Observation
<i>Erysimum cheiranthoides</i>	Treacle-mustard	17/08/2005	SU78660632	Hambrook	Present	Field Observation
<i>Euphorbia exigua</i>	Dwarf Spurge	13/07/2009	SU70Y	Hambrook area	Present	Field Observation
<i>Euphorbia platyphyllos</i>	Broad-leaved Spurge	21/08/2011	SU754056	Hermitage	Present	Field Observation
<i>Euphrasia nemorosa</i>	Eyebright	28/09/1994	SU7503	Westbourne Common		Field Observation
<i>Fragaria vesca</i>	Wild Strawberry	21/08/2011	SU70T	Westbourne, Cemetery Lane	Present	Field Observation
		15/08/2004	SU70S	Thornham	Present	Field Observation
<i>Frankenia laevis</i>	Sea-heath	12/08/2019	SU765042	Thornham Point - C113	O DAFOR	LWS Survey
		22/08/2017	SU76400440	Thorney Island	Present	Field Observation
<i>Galium uliginosum</i>	Fen Bedstraw	04/07/1991	SU7906	Hambrook Common - relic of (S. of A27)		Field Observation
<i>Genista tinctoria</i>	Dyer's Greenweed	12/08/2019	SU764043	Thornham Point - C113	A DAFOR	LWS Survey
		12/08/2019	SU765041	Thornham Point - C113	O DAFOR	LWS Survey
		06/04/2012	SU765040	Chichester District, Thorney Island	Present	Field Observation
		18/07/2003	SU78080456	Chidham, West Chidham Nutbourne Bay		Field Observation
		17/09/2002	SU7649304321	Thornham Point	1	Field Observation
		17/09/2002	SU7649304321	Thornham Point, ThornhamPoint	1	Field Observation
		Nov-99	SU7579504196	Thorney Deeps S Deeps, Thorney Deeps	1	Field Observation
		09/10/1997	SU7649304321	Thornham Point	1	Field Observation
		09/10/1997	SU7649304321	Thornham Point, Thorham Point		Field Observation
		18/09/1997	SU765044	Thornham Lane, sea wall and fields, Thorney Island, Field at Thornham Point	Present	Field Observation
		28/09/1994	SU7906	Hambrook Common - relic of (S. of A27)		Field Observation
		18/07/1991	SU76070472	Slipper Hovel field by road, Slipper Hovel Marsh	1	Field Observation
		18/07/1991	SU764044	TI northern fields EF MOD, Eames Farm MOD field	1	Field Observation
		04/07/1991	SU7906	Hambrook Common - relic of (S. of A27)		Field Observation
		<i>Genista tinctoria subsp. tinctoria</i>	Dyer's Greenweed	06/04/2012	SU765040	Chichester District
02/08/2005	SU70X			Chidham	Present	Field Observation
02/06/2004	SU70S			Thornham	Present	Field Observation
<i>Hieracium piligerum</i>	Hawkweed	18/07/1991	SU764044	TI northern fields EF MOD, Eames Farm MOD field	1	Field Observation
		26/06/1990	SU758044	EF Deeps fields, Deeps fields	1	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		15/07/1984	SU7649304321	Thornham Point	1	Field Observation
<i>Hippophae rhamnoides</i>	Sea-buckthorn	11/07/2006	SU753056	By Slipper Pond	Present	Field Observation
		02/06/2004	SU765051	Thornham	Present	Field Observation
		2002	SU75380549	SE corner of Slipper pond	Present	Field Observation
		1994	SU753053	Hermitage	Present	Field Observation
		1993	SU753053	Hermitage	Present	Field Observation
<i>Hyacinthoides non-scripta</i>	Bluebell	09/05/2019	SU770068	South Lane - East Side Southern End	Present	Field Observation
		09/05/2019	SU779066	Hambrook - south of A27	Present	Field Observation
		02/05/2019	SU779056	Southbourne - Nellie's Field (West of Footpath 257)	Present	Field Observation
		02/05/2019	SU781059	Southbourne - West of Footpath 257 North of the Railway	Present	Field Observation
		18/04/2019	SU760059	Field between Morcumbs Caravan Park and railway line	Present	Field Observation
		18/04/2019	SU761060	Field between Morcumbs Caravan Park and railway line	Present	Field Observation
		15/04/2019	SU7805	Nutbourne	Present	Field Observation
		15/04/2019	SU784045	Chidham	Present	Field Observation
		11/04/2019	SU788070	South Side	Present	Field Observation
		10/04/2019	SU783063	Northern Side of Priors Leaze Lane	Present	Field Observation
		06/04/2019	SU7505	Emsworth	Present	Field Observation
		03/04/2019	SU756064	Southbourne Footpath 240 between A27 and Railway Line	Present	Field Observation
		15/03/2019	SU767069	Southbourne - South Lane (opposite West View Cottages)	Present	Field Observation
		15/03/2019	SU769068	Southbourne - South Lane (Southern near Cheshire Way)	Present	Field Observation
		15/03/2019	SU770069	Southbourne - South Lane (opposite West View Cottages)	Present	Field Observation
		04/04/2010	SU705	Nutbourne	Present	Field Observation
		04/04/2010	SU70X	East Nutbourne	Present	Field Observation
		Jul-06	SU70T	Southbourne area	Present	Field Observation
<i>Inula crithmoides</i>	Golden-samphire	12/08/2019	SU765042	Thornham Point - C113	R DAFOR	LWS Survey
		29/09/2009	SU7810804508	Chidham	Present	Field Observation
		14/11/2008	SU70L	Thorney Island, W side	Present	Field Observation
		14/11/2008	SU70M	Thorney Island (NW)	Present	Field Observation
		06/08/2007	SU7809204570	Chidham,	Present	Field Observation
		11/07/2006	SU7527205774	By Slipper Pond	Present	Field Observation
		13/07/2001	SU7404	Thorney	Present	Field Observation
		1993	SU753053	Hermitage	Present	Field Observation
		05/09/1987	SU7504	Thorney, NW		Field Observation
<i>Juncus maritimus</i>	Sea Rush	21/08/2011	SU7532505042	Hermitage	Present	Field Observation
		21/08/2011	SU76510416	Thornham	Present	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		30/10/2009	SU70L	Thorney Island	Present	Field Observation
		02/08/2005	SU78100452	Chidham	Present	Field Observation
		Nov-99	SU7579504196	Thorney Deeps S Deeps, Thorney Deeps	1	Field Observation
		01/07/1998	SU7579504196	Thorney Deeps S Deeps, Thorney, nr Stony Lane	1	Field Observation
		09/07/1996	SU7579504196	Thorney Deeps S Deeps, Thorney Island SE Deeps (Western side)	1	Field Observation
		1995	SU766036	Thorney	Present	Field Observation
		20/06/1995	SU766036	Thorney NE, Thorney Island - North Eastern area	1	Field Observation
		18/07/1991	SU764044	TI northern fields EF MOD, Eames Farm MOD field	1	Field Observation
		05/09/1987	SU7504	Thorney, NW		Field Observation
<i>Juncus subnodulosus</i>	Blunt-flowered Rush	20/09/1981	SU7766305086	Nutbourne Marsh, Nutbourne Marshes	1	Field Observation
<i>Knautia arvensis</i>	Field Scabious	30/08/2012	SU70T	Nutbourne	Present	Field Observation
		02/08/2005	SU70X	Chidham	Present	Field Observation
<i>Lepidium heterophyllum</i>	Smith's Pepperwort	15/08/2004	SU76460423	Thornham	Present	Field Observation
<i>Limonium humile</i>	Lax-flowered Sea-lavender	02/08/2005	SU78100452	Chidham	Present	Field Observation
		15/08/2004	SU76360437	NW of Prinsted Point	Present	Field Observation
		15/08/2004	SU76490451	NW of Prinsted Point	Present	Field Observation
		15/08/2004	SU76560416	NW of Prinsted Point	Present	Field Observation
		2002	SU766040	Thorney Island	Present	Field Observation
		1986 - 2002	SU766040	Thorney Island	Present	Field Observation
		13/08/2002	SU776049	Nutbourne, in corner by outfall	sc. cv sm Present	Field Observation
		16/07/2001	SU766042	Thorney	Present	Field Observation
		13/07/2001	SU748040	Thorney Island	Present	Field Observation
		01/07/1998	SU75790419	Thorney Island, Thorney Deeps	Present	Field Observation
		01/07/1998	SU7579504196	Thorney Deeps S Deeps, Thorney, nr Stony Lane	1	Field Observation
		1989	SU70L	Thorney Island	Present	Field Observation
		15/07/1984	SU755045	Thornham Lane, sea wall and fields, Thorney Island		Field Observation
		15/07/1984	SU7649304321	Thornham Point	1	Field Observation
<i>Limonium vulgare</i>	Common Sea-lavender	22/09/2005	SU70R	Thorney Island,	Present	Field Observation
		15/08/2004	SU765040	Thornham Point,	Present	Field Observation
		17/09/2002	SU7649304321	Thornham Point	1	Field Observation
		17/09/2002	SU7649304321	Thornham Point, ThornhamPoint	1	Field Observation
		16/07/2001	SU765041	Thorney	Present	Field Observation
		01/07/1998	SU7579504196	Thorney Deeps S Deeps, Thorney, nr Stony Lane	1	Field Observation
		18/07/1991	SU764044	TI northern fields EF MOD, Eames Farm MOD field	1	Field Observation



Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		05/09/1987	SU7504	Thorney, NW		Field Observation
		15/07/1984	SU755045	Thornham Lane, sea wall and fields, Thorney Island		Field Observation
		15/07/1984	SU7649304321	Thornham Point	1	Field Observation
		20/09/1981	SU7766305086	Nutbourne Marsh, Nutbourne Marshes	1	Field Observation
<i>Lythrum hyssopifolia</i>	Grass-poly	1990	SU7503	Thorney island	1 Present	Field Observation
		05/09/1987	SU7504	Thorney, NW		Field Observation
<i>Misopates orontium</i>	Weasel's-snout	2001	SU785054	Nutbourne	Present	Field Observation
<i>Oenanthe fistulosa</i>	Tubular Water-dropwort	09/05/2019	SU779066	Hambrook - south of A27	Present	Field Observation
<i>Oenanthe lachenalii</i>	Parsley Water-dropwort	14/06/2006	SU70R	East Thorney Island	Present	Field Observation
		15/08/2004	SU765042	Near Thornham Point	Present	Field Observation
<i>Ononis spinosa</i>	Spiny Restharrow	15/08/2004	SU76250444	Thornham	Present	Field Observation
		1986 - 2001	SU765041	Thorney Island	Present	Field Observation
		16/07/2001	SU762043	Thorney	Present	Field Observation
		13/07/2001	SU748041	Thorney	Present	Field Observation
		Nov-99	SU7579504196	Thorney Deeps S Deeps, Thorney Deeps	1	Field Observation
		18/07/1991	SU76070472	Slipper Hovel field by road, Slipper Hovel Marsh	1	Field Observation
		18/07/1991	SU764044	TI northern fields EF MOD, Eames Farm MOD field	1	Field Observation
		15/07/1984	SU754048	Peter Mayo land	1	Field Observation
		15/07/1984	SU755045	Eames Farm, Thorney Island		Field Observation
		15/07/1984	SU755047	EF Northwest Field, Northwest Field	1	Field Observation
		15/07/1984	SU755048	Grassland and Reedbed, Thorney Island		Field Observation
		20/09/1981	SU7766305086	Nutbourne Marsh, Nutbourne Marshes	1	Field Observation
<i>Petroselinum segetum</i>	Corn Parsley	30/08/2012	SU7742805581	Southbourne	Present	Field Observation
		12/08/2003	SU76260446	TI northern fields EF MOD, roadside opp Thornham Marina		Field Observation
<i>Plantago media</i>	Hoary Plantain	02/05/2009	SU70T	Westbourne	Present	Field Observation
<i>Poa infirma</i>	Early Meadow-grass	22/03/2011	SU7566804910	Thorney Island	Present	Field Observation
		14/04/2010	SU7558904947	Thorney Island, Thorney	Present	Field Observation
		14/04/2010	SU7631204404	Thornham area	Present	Field Observation
<i>Polypogon monspeliensis</i>	Annual Beard-grass	15/08/2004	SU76280449	Thornham Marina	Present	Field Observation
<i>Potentilla erecta</i>	Tormentil	02/08/2005	SU70X	Chidham	Present	Field Observation
		28/09/1994	SU7503	Westbourne Common		Field Observation
<i>Potentilla palustris</i>	Marsh Cinquefoil	02/05/2019	SU786058	Chidham and Hambrook - South of Hawthorn Gardens	Present	Field Observation
		02/05/2019	SU787058	Chidham and Hambrook - East of Kiln Drive	Present	Field Observation
		11/04/2019	SU788070	North Side	Present	Field Observation
		11/04/2019	SU788070	South Side	Present	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
<i>Prunus cerasus</i>	Dwarf Cherry	25/04/2019	SU766065	Southbourne - Rec East from Pavilion	Present	Field Observation
<i>Puccinellia fasciculata</i>	Borrer's Saltmarsh-grass	2002	SU70M	Thorney Island	Present	Field Observation
		05/09/1987	SU7504	Thorney, NW		Field Observation
<i>Puccinellia rupestris</i>	Stiff Saltmarsh-grass	19/06/2004	SU75310520	Thorney Island,	Present	Field Observation
		1993	SU753052	Hermitage	Present	Field Observation
<i>Ranunculus flammula</i>	Lesser Spearwort	28/09/1994	SU7503	Westbourne Common		Field Observation
<i>Ruppia maritima</i>	Beaked Tasselweed	15/08/2004	SU76560403	Thornham	Present	Field Observation
		02/06/2004	SU70S	Thornham	Present	Field Observation
		16/07/2001	SU762043	Thorney	Present	Field Observation
		16/07/2001	SU765042	Thorney	Present	Field Observation
		18/07/1991	SU764044	TI northern fields EF MOD, Eames Farm MOD field	1	Field Observation
		15/07/1984	SU755045	Thornham Lane, sea wall and fields, Thorney Island		Field Observation
		15/07/1984	SU7649304321	Thornham Point	1	Field Observation
<i>Salicornia dolichostachya</i>	Long-spiked Glasswort	1997	SU777049	Nutbourne	Present	Field Observation
<i>Salicornia fragilis</i>	Yellow Glasswort	21/08/2011	SU765041	Thornham	Present	Field Observation
		17/09/2002	SU7649304321	Thornham Point	1	Field Observation
		17/09/2002	SU7649304321	Thornham Point, ThornhamPoint	1	Field Observation
		09/10/1997	SU7649304321	Thornham Point	1	Field Observation
		09/10/1997	SU7649304321	Thornham Point, Thorham Point		Field Observation
		18/09/1997	SU765044	Thornham Lane, sea wall and fields, Thorney Island, Field at Thornham Point	dominant Present	Field Observation
		05/09/1987	SU7504	Thorney, NW		Field Observation
<i>Salicornia pusilla</i>	One-flowered Glasswort	15/08/2004	SU76510416	Near Thornham Point	Present	Field Observation
		1994	SU754049	Hermitage	Present	Field Observation
		05/09/1987	SU7504	Thorney, NW		Field Observation
<i>Sarcocornia perennis</i>	Perennial Glasswort	15/08/2004	SU76360437	Near Thornham Marina	Present	Field Observation
		15/08/2004	SU76560416	Near Thornham Point	Present	Field Observation
		17/09/2002	SU7649304321	Thornham Point	1	Field Observation
		17/09/2002	SU7649304321	Thornham Point, ThornhamPoint	1	Field Observation
		1997	SU777049	Nutbourne	Present	Field Observation
		09/10/1997	SU7649304321	Thornham Point	1	Field Observation
		09/10/1997	SU7649304321	Thornham Point, Thorham Point		Field Observation
		18/09/1997	SU765044	Thornham Lane, sea wall and fields, Thorney Island, Field at Thornham Point	Present	Field Observation
<i>Senecio aquaticus</i>	Marsh Ragwort	28/09/1994	SU7906	Hambrook Common - relic of (S. of A27)		Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		04/07/1991	SU7906	Hambrook Common - relic of (S. of A27)		Field Observation
<i>Seriphidium maritimum</i>	Sea Wormwood	14/05/2008	SU7663403900	Thorney Island (E)	Present	Field Observation
		15/08/2004	SU76560403	Thornham	Present	Field Observation
		18/07/1991	SU764044	TI northern fields EF MOD, Eames Farm MOD field	1	Field Observation
		05/09/1987	SU7504	Thorney, NW		Field Observation
		15/07/1984	SU755045	Thornham Lane, sea wall and fields, Thorney Island		Field Observation
		15/07/1984	SU7649304321	Thornham Point	1	Field Observation
		20/09/1981	SU7766305086	Nutbourne Marsh, Nutbourne Marshes	1	Field Observation
<i>Spergula arvensis</i>	Corn Spurrey	26/06/1990	SU758044	EF Deeps fields, Deeps fields	1	Field Observation
		15/07/1984	SU7649304321	Thornham Point	1	Field Observation
<i>Spiranthes spiralis</i>	Autumn Lady's-tresses	28/08/2011	SU750043	Thorney Island	Present	Field Observation
		28/08/2011	SU765041	Thorney Island	Present	Field Observation
		21/08/2011	SU70S	Thornham	Present	Field Observation
		30/08/2010	SU750043	Eames Farm, Thorney Island	Present	Field Observation
		19/08/2009	SU750043	Eames Farm	Present	Field Observation
		25/08/2008	SU750043	Eames Farm	Present	Field Observation
		04/09/2007	SU750043	Eames Farm,	Present	Field Observation
		30/08/2006	SU750043	Eames Farm	Present	Field Observation
		28/09/1994	SU7503	Westbourne Common		Field Observation
<i>Succisa pratensis</i>	Devil's-bit Scabious	28/09/1994	SU7503	Westbourne Common		Field Observation
<i>Tilia platyphyllos</i>	Large-leaved Lime	02/05/2019	SU786061	Chidham and Hambrook West of Footpath 258 South of Priors Leaze Lane	Present	Field Observation
		21/08/2011	SU755067	Westbourne	Present	Field Observation
		13/07/2009	SU7828506230	Hambrook area	Present	Field Observation
<i>Trifolium fragiferum</i>	Strawberry Clover	05/08/2014	SU70M	Thorney North	Present	Field Observation
		02/08/2005	SU70X	Chidham	Present	Field Observation
		15/08/2004	SU70S	Thornham	Present	Field Observation
		17/09/1996	SU7766305086	Nutbourne Marsh		Field Observation
		17/09/1996	SU7766305086	Nutbourne Marsh	1	Field Observation
		18/07/1991	SU76070472	Slipper Hovel field by road, Slipper Hovel Marsh	1	Field Observation
		18/07/1991	SU764044	TI northern fields EF MOD, Eames Farm MOD field	1	Field Observation
		15/07/1984	SU754048	Peter Mayo land	1	Field Observation
		15/07/1984	SU755045	Thornham Lane, sea wall and fields, Thorney Island		Field Observation
		15/07/1984	SU755048	Grassland and Reedbed, Thorney Island		Field Observation
		15/07/1984	SU7649304321	Thornham Point	1	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		20/09/1981	SU7766305086	Nutbourne Marsh, Nutbourne Marshes	1	Field Observation
<i>Triglochin palustre</i>	Marsh Arrowgrass	20/09/1981	SU7766305086	Nutbourne Marsh, Nutbourne Marshes	1	Field Observation
<i>Veronica officinalis</i>	Heath Speedwell	09/06/2009	SU70R	Thorney East	Present	Field Observation
<i>Viola canina</i>	Heath Dog-violet	1994	SU757047	Westbourne	Present	Field Observation
<b>Invertebrates - Ants, Bees, Sawflies &amp; Wasps</b>						
<i>Andrena labiata</i>	Red-girdled Mining Bee	17/05/2007	SU764044	Thorney Island; E. sea wall		Unknown
<i>Andrena minutuloides</i>	Plain Mini-miner	25/07/1992	SU7504	Thorney Island		Unknown
<i>Andrena nitidiuscula</i>	Carrot Mining Bee	18/09/1997	SU765044	Thornham Lane, sea wall and fields, Thorney Island, Field at Thornham Point	Present	Field Observation
		Jul-97	SU7649304321	Thornham Point	1	Field Observation
		24/07/1994	SU7504	Thorney Island		Unknown
		25/07/1992	SU7504	Thorney Island		Unknown
		Aug-91	SU76550416	N end E seawall, North end of W. sea wall	1	Field Observation
		Aug-91	SU76550416	Thorney Island, Emsworth	Present	Field Observation
		07/09/1985	SU752048	Thorney Island		Unknown
		07/09/1985	SU76630395	Thorney Island, Sea wall	Present	Field Observation
		07/09/1985	SU76630395	Western Sea Wall	1	Field Observation
<i>Bombus humilis</i>	Brown-banded Carder-bee	02/08/2009	SU7504	Thorney Island 7504		Unknown
<i>Bombus muscorum</i>	Moss Carder-bee	14/08/1994	SU7504	Thorney Island		Unknown
		Aug-91	SU7660303982	Eastern sea wall	1	Field Observation
		19/08/1991	SU750044	W.s-w Thorney Islan		Unknown
		07/09/1985	SU752048	Thorney Island		Unknown
		07/09/1985	SU76630395	Western Sea Wall	1	Field Observation
		Aug-85	SU76070472	Slipper Hovel field by road, Field by Road	1	Field Observation
<i>Chalcis biguttata</i>	An Ant, Bee, Sawfly or Wasp	01/07/1997	SU763043	Thorney Island, Thornham Point	1 Adult	Field Observation
		01/07/1997	SU764042	Hodge, 1997, Area 2, Thornham Point	1	Field Observation
<i>Chalcis sispes</i>	An Ant, Bee, Sawfly or Wasp	01/07/1997	SU764042	Hodge, 1997, Area 2, Thornham Point	1	Field Observation
<i>Chrysis gracillima</i>	An Ant, Bee, Sawfly or Wasp	20/05/2007	SU755049	Thorney Island; field by road		Unknown
		27/06/1998	SU7504	Thorney Island		Unknown
		18/09/1997	SU765044	Thornham Lane, sea wall and fields, Thorney Island, Field at Thornham Point	Present	Field Observation
		Jul-97	SU7649304321	Thornham Point	1	Field Observation
		28/07/1996	SU7504	Thorney Island		Unknown
<i>Colletes marginatus</i>	Margined Colletes	18/09/1997	SU765044	Thornham Lane, sea wall and fields, Thorney Island, Field at Thornham Point	Present	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		Jul-97	SU7649304321	Thornham Point	1	Field Observation
<i>Dolichovespula media</i>	An Ant, Bee, Sawfly or Wasp	02/08/2009	SU7504	Thorney Island 7504		Unknown
		17/07/2004	SU755050	CHC EF north boundary	1	Field Observation
<i>Dolichovespula saxonica</i>	An Ant, Bee, Sawfly or Wasp	02/08/2009	SU7504	Thorney Island 7504		Unknown
<i>Ectemnius borealis</i>	An Ant, Bee, Sawfly or Wasp	07/06/1997	SU7504	Thorney Island		Unknown
<i>Ectemnius ruficornis</i>	An Ant, Bee, Sawfly or Wasp	Jul-97	SU7649304321	Thornham Point	1	Field Observation
<i>Eumenes coarctatus</i>	Heath Potter Wasp	12/08/1995	SU7504	Southbourne marshes		Unknown
		12/08/1995	SU7504	Thorney Island		Unknown
<i>Heriades truncorum</i>	Ridge-saddled Carpenter Bee	02/08/2009	SU7504	Thorney Island 7504		Unknown
		17/07/2004	SU755050	CHC EF north boundary	1	Field Observation
		19/07/1998	SU7504	Thorney Island		Unknown
		21/06/1998	SU7504	Thorney Island		Unknown
		18/09/1997	SU765044	Thornham Lane, sea wall and fields, Thorney Island, Field at Thornham Point	Present	Field Observation
		Jul-97	SU7649304321	Thornham Point	1	Field Observation
		14/07/1997	SU7504	Thorney Island		Unknown
		07/06/1997	SU7504	Thorney Island		Unknown
		28/07/1996	SU7504	Thorney Island		Unknown
		24/07/1994	SU7504	Thorney Island		Unknown
		15/07/1994	SU7504	Thorney Island		Unknown
		25/07/1992	SU7504	Thorney Island		Unknown
		Aug-91	SU76070472	Slipper Hovel field by road, North end of W. sea wall	1	Field Observation
		Aug-91	SU76550416	N end E seawall, North end of W. sea wall	1	Field Observation
		Aug-91	SU76550416	Thorney Island, Emsworth, And at 76070472	Present	Field Observation
		25/08/1991	SU7504	Thorney Island	1 Adult Female	Unknown
		19/08/1991	SU750044	W. s-w Thorney Isla		Unknown
		19/08/1991	SU755049	Field, Thorney Isla		Unknown
		19/08/1991	SU764044	E. s-w Thorney Isla		Unknown
<i>Hylaeus pictipes</i>	Little Yellow-face Bee	08/06/1997	SU7504	Thorney Island		Unknown
<i>Lasioglossum malachurum</i>	Sharp-collared Furrow Bee	09/06/2007	SU763042	Thorney Island, Emsworth		Unknown
		19/07/1998	SU7504	Thorney Island		Unknown
		Jul-97	SU7649304321	Thornham Point	1	Field Observation
		14/07/1997	SU7504	Thorney Island; Marina Farm		Unknown
		28/07/1996	SU7504	Thorney Island		Unknown
		14/08/1994	SU7504	Thorney Island		Unknown

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	
		24/07/1994	SU7504	Thorney Island		Unknown	
		15/07/1994	SU7504	Thorney Island		Unknown	
		25/07/1992	SU7504	Thorney Island		Unknown	
		08/07/1992	SU7504	Thorney Island		Unknown	
		17/05/1992	SU764044	Thorney Island, eastern Sea Wall		Unknown	
		17/05/1992	SU764044	Thorney Island, Northern fields		Present	Field Observation
		17/05/1992	SU764044	TI northern fields EF MOD, Thorney Island Northern fields		1	Field Observation
		Aug-91	SU76070472	Slipper Hovel field by road, North end of W. sea wall		1	Field Observation
		Aug-91	SU76550416	N end E seawall, North end of W. sea wall		1	Field Observation
		Aug-91	SU76550416	Thorney Island, Emsworth, And at 76630395 and 76070472		Present	Field Observation
		Aug-91	SU76630395	Western Sea Wall		1	Field Observation
		25/08/1991	SU750044	W.s-w Thorney Island			Unknown
		25/08/1991	SU7504	Thorney Island		1 Adult Male; 2 Adult Female	Unknown
		25/08/1991	SU755049	Field, Thorney Isla			Unknown
		07/09/1985	SU752048	Thorney Island			Unknown
		07/09/1985	SU76630395	Thorney Island		Present	Field Observation
		07/09/1985	SU76630395	Western Sea Wall		1	Field Observation
		<i>Lasioglossum pauxillum</i>	Lobe-spurred Furrow Bee	19/05/2007	SU764044	Thorney Island; E. sea wall	
06/07/2004	SU751062			Brook Meadow (Lumley Meadow SINC): Mid + North Meadow		Unknown	
19/07/1998	SU7504			Thorney Island		Unknown	
<i>Megachile leachella</i>	Silvery Leafcutter Bee	09/06/2007	SU763042	Thorney Island, Emsworth		Unknown	
		14/07/1997	SU7504	Thorney Island		Unknown	
		28/07/1996	SU7504	Thorney Island		Unknown	
<i>Melitta tricincta</i>	Red Bartsia Blunthorn Bee	22/08/2017	SU763043	Thorney Island	1 Adult	Field Observation	
		14/08/1994	SU7504	Thorney Island		Unknown	
		Aug-91	SU76070472	Slipper Hovel field by road, North end of W. sea wall	1	Field Observation	
		Aug-91	SU76070472	Thorney Island, Emsworth	Present	Field Observation	
		Aug-91	SU76600398	Thorney Island, Emsworth, Sea wall	Present	Field Observation	
		Aug-91	SU7660303982	Eastern sea wall	1	Field Observation	
		25/08/1991	SU7504	Thorney Island		2 Adult Female	Unknown
		25/08/1991	SU764044	E. s-w Thorney Isla			Unknown
		19/08/1991	SU764044	E. s-w Thorney Isla			Unknown
07/09/1985	SU752048	Thorney Island			Unknown		

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		Aug-85	SU76070472	Slipper Hovel field by road, Field by Road	1	Field Observation
		Aug-85	SU76070472	Thorney Island, Field by road	Present	Field Observation
<i>Microdynerus exilis</i>	An Ant, Bee, Sawfly or Wasp	19/07/1998	SU7504	Thorney Island		Unknown
		Jul-97	SU7649304321	Thornham Point	1	Field Observation
		01/07/1997	SU763043	Thornham Point, Chichester harbour		Unknown
		01/07/1997	SU763043	Thornham Point; Thorney Island		Unknown
		01/07/1997	SU764042	Hodge, 1997, Area 2, Thornham Point	1	Field Observation
<i>Mimumesa littoralis</i>	An Ant, Bee, Sawfly or Wasp	07/09/1985	SU76630395	Thorney Island, Sea wall	Present	Field Observation
		07/09/1985	SU76630395	Western Sea Wall	1	Field Observation
<i>Monosapyga clavicornis</i>	An Ant, Bee, Sawfly or Wasp	21/06/1998	SU7504	Thorney Island		Unknown
		31/05/1998	SU7504	Thorney Island		Unknown
		07/06/1997	SU7504	Thorney Island		Unknown
<i>Myrmica specioides</i>	An Ant, Bee, Sawfly or Wasp	06/09/1994	SU764044	Thorney Island e. sea wall		Unknown
<i>Nomada flavopicta</i>	Blunthorn Nomad Bee	Jul-97	SU7649304321	Thornham Point	1	Field Observation
<i>Nomada fucata</i>	Painted Nomad Bee	29/05/2009	SU7604	Thorney Island 7604		Unknown
		17/05/2007	SU764044	Thorney Island; E. sea wall		Unknown
		19/07/1998	SU7504	Thorney Island		Unknown
		27/07/1996	SU7504	Thorney Island		Unknown
		08/07/1992	SU7504	Thorney Island		Unknown
		17/05/1992	SU764044	Thorney Island, eastern Sea Wall		Unknown
		17/05/1992	SU764044	Thorney Island, Northern fields	Present	Field Observation
		17/05/1992	SU764044	TI northern fields EF MOD, Thorney Island Northern fields	1	Field Observation
		Aug-91	SU7660303982	Eastern sea wall	1	Field Observation
		Aug-91	SU76630395	Thorney Island, Emsworth, Sea wall. And at 76600398	Present	Field Observation
		Aug-91	SU76630395	Western Sea Wall	1	Field Observation
<i>Odynerus melanocephalus</i>	Black-headed Mason Wasp	19/05/2007	SU764044	Thorney Island; E. sea wall		Unknown
		17/05/2007	SU764044	Thorney Island; E. sea wall		Unknown
<i>Osmia leaiana</i>	Orange-vented Mason Bee	20/05/2007	SU755049	Thorney Island; field by road		Unknown
		27/06/1998	SU7504	Thorney Island		Unknown
		31/05/1998	SU7504	Thorney Island		Unknown
<i>Pemphredon lethifer</i>	Little Black Wasp	23/07/2012 - 23/08/2012	SU787052	Chidham, off Cot Lane	Present	Unknown
		31/05/1998	SU7504	Thorney Island		Unknown
		Jul-97	SU7649304321	Thornham Point	1	Field Observation
		14/07/1997	SU7504	Thorney Island		Unknown

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		08/06/1997	SU7504	Thorney Island		Unknown
		07/06/1997	SU7504	Thorney Island		Unknown
<i>Philanthus triangulum</i>	Bee Wolf	1996	SU7534005038	Thorney NW, Pile of sand inside Wickor seawall		Field Observation
		28/07/1996	SU7504	Thorney Island		Unknown
		15/07/1994	SU750044	W. sea wall, Thorney Island		Unknown
		15/07/1994	SU7504	Thorney Island		Unknown
<i>Priocnemis confusor</i>	An Ant, Bee, Sawfly or Wasp	07/09/1985	SU76630395	Thorney Island, Sea wall	Present	Field Observation
		07/09/1985	SU76630395	Western Sea Wall	1	Field Observation
<i>Sphecodes crassus</i>	Swollen-thighed Blood Bee	09/06/2007	SU763042	Thorney Island, Emsworth		Unknown
		06/09/1994	SU750044	Thorney Island, western sea wall		Unknown
		07/09/1985	SU76630395	Thorney Island, Sea wall	Present	Field Observation
		07/09/1985	SU76630395	Western Sea Wall	1	Field Observation
<i>Sphecodes rubicundus</i>	Red-tailed Blood Bee	07/06/1997	SU7504	Thorney Island		Unknown
<i>Stelis breviscula</i>	Little Dark Bee	02/08/2009	SU7504	Thorney Island 7504		Unknown
		17/07/2004	SU755050	CHC EF north boundary	1	Field Observation
		19/07/1998	SU7504	Thorney Island		Unknown
		27/06/1998	SU7504	Thorney Island		Unknown
		18/09/1997	SU765044	Thornham Lane, sea wall and fields, Thorney Island, Field at Thornham Point	Present	Field Observation
		Jul-97	SU7649304321	Thornham Point	1	Field Observation
		14/07/1997	SU7504	Thorney Island		Unknown
		08/06/1997	SU7504	Thorney Island		Unknown
		28/07/1996	SU7504	Thorney Island		Unknown
		25/07/1992	SU7504	Thorney Island		Unknown
		Aug-91	SU76070472	Slipper Hovel field by road, North end of W. sea wall	1	Field Observation
		Aug-91	SU76070472	Thorney Island, Emsworth, Field by road	Present	Field Observation
<i>Tiphia minuta</i>	Small Tiphia	08/06/1997	SU7504	Thorney Island		Unknown
		07/06/1997	SU7504	Thorney Island		Unknown
<b>Invertebrates - Beetles</b>						
<i>Agabus bipustulatus</i>	A Beetle	1992	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		28/09/1992	SU756048	Southbourne Eames Farm - Pond	Present	Field Observation
		28/09/1992	SU757047	Southbourne Eames Farm - Dyke	Present	Field Observation
		27/06/1992	SU757047	Southbourne - Eames Farm	Present	Field Observation
<i>Agabus conspersus</i>	A Beetle	1992	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		28/09/1992	SU757047	Southbourne Eames Farm - Dyke	Present	Field Observation



Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
<i>Agabus nebulosus</i>	A Beetle	1992	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		28/09/1992	SU756048	Southbourne Eames Farm - Pond	Present	Field Observation
		28/09/1992	SU757047	Southbourne Eames Farm - Dyke	Present	Field Observation
<i>Bembidion iricolor</i>	A Beetle	1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		08/07/1985	SU7604	Southbourne CP, Thornham Marsh (E)	Present	Field Observation
<i>Bembidion normannum</i>	A Beetle	11/07/1985	SU7603	Thorney NE, Thorney Island (NE)	Present	Field Observation
<i>Cassida vittata</i>	Bordered Tortoise Beetle	01/07/1997	SU765041	Thornham Point, South facing sea wall, east side of track		Unknown
		01/07/1997	SU766041	Hodge, 1997, Area 3, Thornham Point	1	Field Observation
		1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		08/09/1991	SU765039	Southbourne, Eames Farm	Present	Field Observation
		08/07/1985	SU7604	Southbourne CP, Thornham Marsh (E)	Present	Field Observation
<i>Ceutorhynchus pectoralis</i>	A Beetle	01/07/1997	SU766041	Hodge, 1997, Area 3, Thornham Point	1	Field Observation
<i>Chrysolina oricalcia</i>	A Beetle	03/07/2013	SU7604	Eames Farm, Thorney Island	1 Adult	Field Observation
		06/04/2012	SU765040	Chichester District, Thorney Island	Present	Field Observation
		06/04/2012	SU765040	Thorney Island	1 Adult	Field Observation
<i>Cordicollis instabilis</i>	A Beetle	01/07/1997	SU765041	Hodge, 1997, Area 4, Thornham Point	1	Field Observation
		01/07/1997	SU765041	Thornham Point, East facing concrete sea wall		Unknown
<i>Crudosilis ruficollis</i>	A Beetle	10/07/1985	SU7504	Southbourne CP, Thornham Marsh (W)	Present	Field Observation
<i>Cyclodinus constrictus</i>	A Beetle	1991	SU7555504357	Eames Farm	Present Adult	Field Observation
		1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		04/08/1991	SU76570394	Southbourne, Eames Farm - MOD 8	Present	Field Observation
		08/07/1985	SU7604	Southbourne CP, Thornham Marsh (E)	Present	Field Observation
<i>Demetrias imperialis</i>	A Beetle	1992	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		27/06/1992	SU757047	Southbourne - Eames Farm	Present	Field Observation
		1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		11/07/1985	SU7603	Thorney NE, Thorney Island (NE)	Present	Field Observation
		08/07/1985	SU7604	Southbourne CP, Thornham Marsh (E)	Present	Field Observation
<i>Dicheirotichus obsoletus</i>	A Beetle	11/07/1985	SU7603	Thorney NE, Thorney Island (NE)	Present	Field Observation
<i>Enochrus bicolor</i>	A Beetle	1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		04/08/1991	SU76570394	Southbourne, Eames Farm - MOD 8	Present	Field Observation
<i>Enochrus halophilus</i>	A Beetle	1992	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		28/09/1992	SU756048	Southbourne Eames Farm - Pond	Present	Field Observation
		1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		04/08/1991	SU76570394	Southbourne, Eames Farm - MOD 8	Present	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
<i>Exapion difficile</i>	A Beetle	18/09/1997	SU765044	Thornham Lane, sea wall and fields, Thorney Island, Field at Thornham Point	Present	Field Observation
		1991	SU7503	Thorney island	Present Adult	Field Observation
		1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		25/07/1991	SU76600394	Southbourne, Eames Farm - Meadow MOD 10	Present	Field Observation
<i>Gyrinus natator</i>	A Beetle	22/07/2012	SU75340492	Thorney Island, Pond 2, Eames Farm		Field Observation
<i>Helochares lividus</i>	A Beetle	1992	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		28/09/1992	SU756048	Southbourne Eames Farm - Pond	Present	Field Observation
<i>Helops caeruleus</i>	A Beetle	06/04/2012	SU7604	Eames Farm, Thorney Island	1 Unsexed Adult	Dusking
		06/04/2012	SU765040	Chichester District, Thorney Island	Present	Field Observation
		06/04/2012	SU765040	Thorney Island	1 Adult	Field Observation
<i>Lucanus cervus</i>	Stag Beetle	22/06/2019	SU78010539	31 Nutbourne Park	Present	Unspecified
		24/05/2019	SU7606	Southbourne Smallcutts Avenue	2-5 Adult	Unspecified
		04/07/2018	SU76960590	Southbourne	1 Female	Field Observation
		23/06/2018	SU77760542	Nutbourne	1 Adult Female	Field Observation
		29/05/2018	SU76940565	Southbourne	1 Present	Field Observation
		29/05/2018	SU77160569	Southbourne	1 Present	Field Observation
		27/05/2018	SU756057	Garden log pile, Emsworth	4 Adult Male	Field Observation
		12/07/2017	SU769065	Breach Avenue, Southbourne	1 Present	Field Observation
		20/06/2017	SU77020557	Southbourne CP, Southbourne	3 Adult Male	Field Observation
		02/06/2017	SU77020557	322 Main Road Southbourne	2 Female; 3 Male	Field Observation
		01/06/2017	SU769065	Breach Avenue, Southbourne	1 Present	Field Observation
		01/06/2017	SU77020557	322 Main Road Southbourne	3 Adult	Field Observation
		23/05/2017	SU77020557	322 Main Road Southbourne	1 Present	Field Observation
		10/06/2016	SU77010557	Southbourne	Present Male	Field Observation
		10/06/2016	SU77020557	Southbourne	Present Female	Field Observation
		04/06/2016	SU77010557	Southbourne	Present	Field Observation
		14/07/2015	SU766058	Unspecified location in the parish of Southbourne	present	Field Observation
		27/06/2015	SU775057	Unspecified location in the parish of Southbourne	present	Field Observation
		16/06/2015	SU771057	Unspecified location in the parish of Southbourne	present	Field Observation
		11/06/2015	SU769058	Unspecified location in the parish of Southbourne	present	Field Observation
		04/06/2015	SU769058	Unspecified location in the parish of Southbourne	present	Field Observation
		12/06/2014	SU7699106556	3 Wentworth Drive, Southbourne	1 Adult	Field Observation
		27/07/2000	SU75790460	Thorney Island, Emsworth	Present	Field Observation
		27/07/2000	SU7579804600	Thorney NW, Slipper Hovel Marsh		Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		17/07/1998	SU780055	Unspecified location in the parish of Southbourne	present	Field Observation
<i>Neocrepidodera impressa</i>	A Beetle	1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		08/09/1991	SU765039	Southbourne, Eames Farm	Present	Field Observation
		04/08/1991	SU76570394	Southbourne, Eames Farm - MOD 8	Present	Field Observation
<i>Ochthebius marinus</i>	A Beetle	01/07/1997	SU764042	Hodge, 1997, Area 2, Thornham Point	1	Field Observation
		01/07/1997	SU764042	Thornham Point, Lane and footpath		Unknown
<i>Ochthebius punctatus</i>	A Beetle	1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		1991	SU766038	Thorney Island	Present	Field Observation
		04/08/1991	SU76570394	Southbourne, Eames Farm - MOD 8	Present	Field Observation
<i>Oxystoma cerdo</i>	A Beetle	1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		04/08/1991	SU76090470	Southbourne, Eames Farm - SWA 6	Present	Field Observation
<i>Protapion ononidis</i>	A Beetle	1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		25/07/1991	SU762044	Southbourne, Eames Farm - Meadow SWA	Present	Field Observation
		25/07/1991	SU763042	Southbourne, Eames Farm - Meadow MOD 1	Present	Field Observation
<i>Pseudovadonia livida</i>	A Beetle	01/07/1997	SU764042	Hodge, 1997, Area 2, Thornham Point	1	Field Observation
		01/07/1997	SU764042	Thorney Island	Present	Field Observation
		01/07/1997	SU764042	Thornham Point, Lane and footpath		Unknown
		1992	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		27/06/1992	SU757047	Southbourne - Eames Farm	Present	Field Observation
		27/06/1992	SU76510411	Southbourne - Eames Farm	Present	Field Observation
		1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		25/07/1991	SU762044	Southbourne, Eames Farm - Meadow SWA	Present	Field Observation
		25/07/1991	SU76510411	Southbourne, Eames Farm - Meadow MOD 1	Present	Field Observation
		08/07/1985	SU7604	Southbourne CP, Thornham Marsh (E)	Present	Field Observation
<i>Sibinia arenariae</i>	A Beetle	22/08/2017	SU76400440	Thorney Island	1 Adult	Field Observation
		22/08/2017	SU764042	Thorney Island	1 Adult	Field Observation
		1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
<i>Tychius pusillus</i>	A Beetle	10/07/1985	SU7504	Southbourne CP, Thornham Marsh (W)	Present	Field Observation
<i>Variimorda villosa</i>	A Beetle	01/07/1997	SU764042	Hodge, 1997, Area 2	Present Adult	Field Observation
		01/07/1997	SU764042	Hodge, 1997, Area 2, Thornham Point	1	Field Observation
		01/07/1997	SU764042	Thornham Point	Present Adult	Field Observation
		01/07/1997	SU764042	Thornham Point, Lane and footpath		Unknown
<b>Invertebrates - Butterflies</b>						
<i>Apatura iris</i>	Purple Emperor	29/07/2010	SU7606	North Southbourne (2km sq)	1 Adult	Field Observation
<i>Coenonympha pamphilus</i>	Small Heath	22/08/2017	SU764042	Thorney Island	Present Adult	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		22/05/2017	SU74920417	Thorney Island	1 Adult	Field Observation
		30/08/2016	SU7604	Thorney Island - S8	4 Present	Transect Section
		30/08/2016	SU7604	Thorney Island - S9	1 Present	Transect Section
		31/08/2013	SU7504	Thorney Island	Present Adult	Field Observation
		06/09/2012	SU7807	SU7807 Hambrook, North of A27 (1km sq)	1 Adult	Field Observation
		23/07/2012 - 14/08/2012	SU787052	Chidham, off Cot Lane	2 Adult	Moth Trap
		23/07/2012	SU7804	SU7804, Nutbourne, South of Nutbourne (1km sq)	1 Adult	Field Observation
		28/06/2012	SU7804	SU7804, Nutbourne, South of Nutbourne (1km sq)	4 Adult	Field Observation
		17/06/2012	SU7805	SU7805 Nutbourne Train Station (1km sq)	2 Adult	Field Observation
		17/06/2012	SU7807	SU7807 Hambrook, North of A27 (1km sq)	3 Adult	Field Observation
		30/05/2012	SU7705	SU7705 Nutbourne (1km sq)	1 Adult	Field Observation
		30/05/2012	SU7804	SU7804, Nutbourne, South of Nutbourne (1km sq)	4 Adult	Field Observation
		12/05/2012	SU7804	SU7804, Nutbourne, South of Nutbourne (1km sq)	1 Adult	Field Observation
		14/09/2010	SU7504	Thorney Island, Eames Farm (1km sq)	1 Adult	Field Observation
		02/09/2010	SU7504	Thorney Island, Eames Farm (1km sq)	6 Adult	Field Observation
		31/08/2010	SU7504	Thorney Island, Eames Farm (1km sq)	7 Adult	Field Observation
		15/08/2010	SU7504	Thorney Island, Eames Farm (1km sq)	2 Adult	Field Observation
		30/09/2008	SU7603	Thorney Island	2-9 Adult	Field Observation
		31/08/2008	SU7603	Thorney Island	2-9 Adult	Field Observation
		15/08/2008	SU7603	Thorney Island	2-9 Adult	Field Observation
		31/07/2008	SU7603	Thorney Island	2-9 Adult	Field Observation
		15/07/2008	SU7603	Thorney Island	2-9 Adult	Field Observation
		30/06/2008	SU7603	Thorney Island	2-9 Adult	Field Observation
		15/06/2008	SU7603	Thorney Island	10-29 Adult	Field Observation
		31/05/2008	SU7603	Thorney Island	2-9 Adult	Field Observation
		15/05/2008	SU7603	Thorney Island	2-9 Adult	Field Observation
		30/09/2007	SU7603	Thorney Island	2-9 Adult	Field Observation
		18/09/2007	SU764042	Thorney Island	1 Adult	Field Observation
		15/09/2007	SU7603	Thorney Island	10-29 Adult	Field Observation
		31/08/2007	SU7603	Thorney Island	10-29 Adult	Field Observation
		24/08/2007	SU764042	Thorney Island	20 Adult	Field Observation
		15/08/2007	SU7603	Thorney Island	10-29 Adult	Field Observation
		31/07/2007	SU7603	Thorney Island	2-9 Adult	Field Observation
		29/07/2007	SU764042	Thorney Island	1 Adult	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		30/06/2007	SU7603	Thorney Island	2-9 Adult	Field Observation
		26/06/2007	SU764042	Thorney Island	1 Adult	Field Observation
		15/06/2007	SU7603	Thorney Island	10-29 Adult	Field Observation
		12/06/2007	SU764042	Thorney Island	35 Adult	Field Observation
		31/05/2007	SU7603	Thorney Island	10-29 Adult	Field Observation
		15/05/2007	SU7603	Thorney Island	2-9 Adult	Field Observation
		30/04/2007	SU7603	Thorney Island	1 Adult	Field Observation
		29/04/2007	SU764042	Thorney Island	1 Adult	Field Observation
		30/09/2006	SU7603	Thorney Island	10-29 Adult	Field Observation
		26/09/2006	SU7603	Thorney Island	1 Adult	Field Observation
		15/09/2006	SU7603	Thorney Island	30-99 Adult	Field Observation
		06/09/2006	SU7603	Thorney Island	50 Adult	Field Observation
		31/08/2006	SU7603	Thorney Island	10-29 Adult	Field Observation
		15/08/2006	SU7603	Thorney Island	10-29 Adult	Field Observation
		31/07/2006	SU7603	Thorney Island	2-9 Adult	Field Observation
		15/07/2006	SU7603	Thorney Island	10-29 Adult	Field Observation
		28/06/2006	SU7603	Thorney Island	70 Adult	Field Observation
		15/06/2006	SU7603	Thorney Island	10-29 Adult	Field Observation
		31/05/2006	SU7603	Thorney Island	2-9 Adult	Field Observation
		15/05/2006	SU7603	Thorney Island	2-9 Adult	Field Observation
		17/10/2005	SU7603	Thorney Island	1 Adult	Field Observation
		01/09/2005	SU7705	Pilsey Island	1 Adult	Field Observation
		31/08/2005	SU7603	Thorney Island	30-99 Adult	Field Observation
		15/08/2005	SU7603	Thorney Island	2-9 Adult	Field Observation
		31/07/2005	SU7603	Thorney Island	2-9 Adult	Field Observation
		15/07/2005	SU7603	Thorney Island	10-29 Adult	Field Observation
		30/06/2005	SU7603	Thorney Island	10-29 Adult	Field Observation
		15/06/2005	SU7603	Thorney Island	10-29 Adult	Field Observation
		31/05/2005	SU7603	Thorney Island	30-99 Adult	Field Observation
		18/05/2005	SU7603	Thorney Island	1 Adult	Field Observation
		16/09/2004	SU7603	Thorney Island	2-9 Adult	Field Observation
		01/09/2004	SU7603	Thorney Island	10-29 Adult	Field Observation
		16/08/2004	SU7603	Thorney Island	30-99 Adult	Field Observation
		01/08/2004	SU7603	Thorney Island	10-29 Adult	Field Observation
		16/07/2004	SU7603	Thorney Island	2-9 Adult	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		01/07/2004	SU7603	Thorney Island	10-29 Adult	Field Observation
		16/06/2004	SU7603	Thorney Island	10-29 Adult	Field Observation
		01/06/2004	SU7603	Thorney Island	30-99 Adult	Field Observation
		16/05/2004	SU7603	Thorney Island	30-99 Adult	Field Observation
		13/05/2004	SU750045	Thorney Deepes	1 Adult	Field Observation
		01/05/2004	SU7603	Thorney Island	2-9 Adult	Field Observation
		30/09/2003	SU7603	Thorney Island	1 Adult	Field Observation
		16/09/2003	SU7603	Thorney Island	10-29 Adult	Field Observation
		01/09/2003	SU7603	Thorney Island	30-99 Adult	Field Observation
		16/08/2003	SU7603	Thorney Island	10-29 Adult	Field Observation
		01/08/2003	SU7603	Thorney Island	10-29 Adult	Field Observation
		16/07/2003	SU7603	Thorney Island	2-9 Adult	Field Observation
		01/07/2003	SU7603	Thorney Island	10-29 Adult	Field Observation
		16/06/2003	SU7603	Thorney Island	30-99 Adult	Field Observation
		01/06/2003	SU7603	Thorney Island	10-29 Adult	Field Observation
		16/05/2003	SU7603	Thorney Island	10-29 Adult	Field Observation
		01/05/2003	SU7603	Thorney Island	2-9 Adult	Field Observation
		17/10/2002	SU7603	Thorney Island	1 Adult	Field Observation
		16/10/2002	SU7603	Thorney Island	1 Adult	Field Observation
		01/10/2002	SU7603	Thorney Island	1 Adult	Field Observation
		16/09/2002	SU7603	Thorney Island	10-29 Adult	Field Observation
		01/09/2002	SU7603	Thorney Island	10-29 Adult	Field Observation
		16/08/2002	SU7603	Thorney Island	10-29 Adult	Field Observation
		01/08/2002	SU7603	Thorney Island	2-9 Adult	Field Observation
		16/07/2002	SU7603	Thorney Island	10-29 Adult	Field Observation
		01/07/2002	SU7603	Thorney Island	2-9 Adult	Field Observation
		16/06/2002	SU7603	Thorney Island	30-99 Adult	Field Observation
		01/06/2002	SU7603	Thorney Island	10-29 Adult	Field Observation
		16/05/2002	SU7603	Thorney Island	10-29 Adult	Field Observation
		28/09/2001	SU7603	Thorney Island	1 Adult	Field Observation
		16/09/2001	SU7603	Thorney Island	2-9 Adult	Field Observation
		01/09/2001	SU7603	Thorney Island	10-29 Adult	Field Observation
		27/08/2001	SU7603	Thorney Island	30-99 Adult	Field Observation
		16/08/2001	SU7603	Thorney Island	1 Adult	Field Observation
		16/08/2001	SU7603	Thorney Island	30-99 Adult	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		05/08/2001	SU7603	Thorney Island	1 Adult	Field Observation
		01/08/2001	SU7603	Thorney Island	2-9 Adult	Field Observation
		16/07/2001	SU7603	Thorney Island	2-9 Adult	Field Observation
		16/06/2001	SU7603	Thorney Island	10-29 Adult	Field Observation
		09/06/2001	SU7603	Thorney Island	10-29 Adult	Field Observation
		01/06/2001	SU7603	Thorney Island	10-29 Adult	Field Observation
		24/05/2001	SU7603	Thorney Island	1 Adult	Field Observation
		16/05/2001	SU7603	Thorney Island	2-9 Adult	Field Observation
		23/09/2000	SU7603	Thorney Island	1 Adult	Field Observation
		16/09/2000	SU7603	Thorney Island	2-9 Adult	Field Observation
		03/09/2000	SU7603	Thorney Island	10-29 Adult	Field Observation
		01/09/2000	SU7603	Thorney Island	10-29 Adult	Field Observation
		19/08/2000	SU7603	Thorney Island	1 Adult	Field Observation
		16/08/2000	SU7603	Thorney Island	2-9 Adult	Field Observation
		01/08/2000	SU7603	Thorney Island	1 Adult	Field Observation
		16/07/2000	SU7603	Thorney Island	2-9 Adult	Field Observation
		01/07/2000	SU7603	Thorney Island	2-9 Adult	Field Observation
		18/06/2000	SU7603	Thorney Island	10-29 Adult	Field Observation
		16/06/2000	SU7603	Thorney Island	10-29 Adult	Field Observation
		01/06/2000	SU7603	Thorney Island	10-29 Adult	Field Observation
		16/05/2000	SU7603	Thorney Island	2-9 Adult	Field Observation
		12/05/2000	SU7603	Thorney Island	1 Adult	Field Observation
		01/05/2000	SU7603	Thorney Island	2-9 Adult	Field Observation
		30/09/1999	SU7603	Thorney Island	2-9 Adult	Field Observation
		15/09/1999	SU7603	Thorney Island	10-29 Adult	Field Observation
		31/08/1999	SU7603	Thorney Island	10-29 Adult	Field Observation
		15/08/1999	SU7603	Thorney Island	10-29 Adult	Field Observation
		31/07/1999	SU7603	Thorney Island	2-9 Adult	Field Observation
		15/07/1999	SU7603	Thorney Island	10-29 Adult	Field Observation
		30/06/1999	SU7603	Thorney Island	10-29 Adult	Field Observation
		15/06/1999	SU7603	Thorney Island	10-29 Adult	Field Observation
		31/05/1999	SU7603	Thorney Island	10-29 Adult	Field Observation
		15/05/1999	SU7603	Thorney Island	2-9 Adult	Field Observation
		13/05/1999	SU755047	Thorney Island	1 Adult	Field Observation
		15/10/1998	SU7603	Thorney Island, Emsworth	2-9 Adult	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		27/09/1998	SU7603	Thorney Island, Emsworth	10-29 Adult	Field Observation
		21/09/1998	SU752046	West - Little Deep Thorney	1 Adult	Field Observation
		15/09/1998	SU7603	Thorney Island, Emsworth	10-29 Adult	Field Observation
		31/08/1998	SU7603	Thorney Island, Emsworth	10-29 Adult	Field Observation
		15/08/1998	SU7603	Thorney Island, Emsworth	1 Adult	Field Observation
		15/07/1998	SU7603	Thorney Island, Emsworth	30-99 Adult	Field Observation
		30/06/1998	SU7603	Thorney Island, Emsworth	10-29 Adult	Field Observation
		15/06/1998	SU7603	Thorney Island, Emsworth	2-9 Adult	Field Observation
		31/05/1998	SU7603	Thorney Island, Emsworth	10-29 Adult	Field Observation
		15/05/1998	SU7603	Thorney Island, Emsworth	2-9 Adult	Field Observation
		07/10/1997	SU7603	Thorney Island, Emsworth	2-9 Adult	Field Observation
		21/09/1997	SU7603	Thorney Island, Emsworth	30-99 Adult	Field Observation
		07/09/1997	SU7603	Thorney Island, Emsworth	30-99 Adult	Field Observation
		21/08/1997	SU7603	Thorney Island, Emsworth	100+ Adult	Field Observation
		07/08/1997	SU7603	Thorney Island, Emsworth	30-99 Adult	Field Observation
		21/07/1997	SU7603	Thorney Island, Emsworth	10-29 Adult	Field Observation
		07/07/1997	SU7603	Thorney Island, Emsworth	30-99 Adult	Field Observation
		01/07/1997	SU764042	Hodge, 1997, Area 2, Thornham Point	1	Field Observation
		01/07/1997	SU764043	Hodge, 1997, Area 1, Thornham Point	1	Field Observation
		21/06/1997	SU7603	Thorney Island, Emsworth	2-9 Adult	Field Observation
		07/06/1997	SU7603	Thorney Island, Emsworth	30-99 Adult	Field Observation
		21/05/1997	SU7603	Thorney Island, Emsworth	30-99 Adult	Field Observation
		07/05/1997	SU7603	Thorney Island, Emsworth	10-29 Adult	Field Observation
		01/05/1997	SU755047	Thorney Island, Emsworth	1 Adult	Field Observation
		23/09/1996	SU7504	Thorney Island, Emsworth	1 Adult	Field Observation
		23/09/1996	SU7504	Thorney Island, Emsworth, SSCI C73	Present	Field Observation
		11/06/1996	SU7504	Thorney Island,		Field Observation
		11/06/1996	SU7504	Thorney Island, Emsworth	1 Adult	Field Observation
		11/06/1996	SU7504	Thorney Island, Emsworth, SSCI C73	Present	Field Observation
		15/09/1995	SU7603	Thorney Island, Emsworth	2-9 Present	Field Observation
		01/09/1995	SU7603	Thorney Island, Emsworth	2-9 Present	Field Observation
		15/08/1995	SU7603	Thorney Island, Emsworth	10-29 Present	Field Observation
		01/08/1995	SU7603	Thorney Island, Emsworth	30-99 Present	Field Observation
		15/07/1995	SU7603	Thorney Island, Emsworth	2-9 Present	Field Observation
		01/07/1995	SU7603	Thorney Island, Emsworth	2-9 Present	Field Observation



Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		15/06/1995	SU7603	Thorney Island, Emsworth	10-29 Present	Field Observation
		01/06/1995	SU7603	Thorney Island, Emsworth	2-9 Present	Field Observation
		15/05/1995	SU7603	Thorney Island, Emsworth	2-9 Present	Field Observation
		01/05/1995	SU7603	Thorney Island, Emsworth	2-9 Present	Field Observation
		1991	SU7555504357	Eames Farm, Eames Farm area	1	Various or unknown
<i>Coenonympha pamphilus</i> <i>pamphilus</i>	Small Heath	30/08/2016	SU7604	Thorney Island	5 Adult	Field Observation
<i>Lasiommata megera</i>	Wall	31/05/2006	SU7603	Thorney Island	1 Adult	Field Observation
		29/05/2006	SU7603	Thorney Island	1 Adult	Field Observation
		15/05/2006	SU7603	Thorney Island	2-9 Adult	Field Observation
		07/08/2005	SU7603	Thorney Island	1 Adult	Field Observation
		31/07/2005	SU7603	Thorney Island	2-9 Adult	Field Observation
		30/06/2005	SU7603	Thorney Island	1 Adult	Field Observation
		15/06/2005	SU7603	Thorney Island	2-9 Adult	Field Observation
		31/05/2005	SU7603	Thorney Island	2-9 Adult	Field Observation
		27/05/2005	SU770050	Pilsey Island	1 Adult	Field Observation
		18/05/2005	SU749042	Thorney Deepes	1 Adult	Field Observation
		18/05/2005	SU7603	Thorney Island	1 Adult	Field Observation
		01/09/2004	SU7603	Thorney Island	1 Adult	Field Observation
		01/08/2004	SU7603	Thorney Island	2-9 Adult	Field Observation
		16/07/2004	SU7603	Thorney Island	1 Adult	Field Observation
		01/06/2004	SU7603	Thorney Island	2-9 Adult	Field Observation
		18/05/2004	SU7603	Thorney Island	10-29 Adult	Field Observation
		16/05/2004	SU7603	Thorney Island	10-29 Adult	Field Observation
		25/10/2003	SU7603	Thorney Island	1 Adult	Field Observation
		16/10/2003	SU7603	Thorney Island	2-9 Adult	Field Observation
		01/10/2003	SU7603	Thorney Island	2-9 Adult	Field Observation
		16/09/2003	SU7603	Thorney Island	2-9 Adult	Field Observation
		01/09/2003	SU7603	Thorney Island	2-9 Adult	Field Observation
		16/08/2003	SU7603	Thorney Island	1 Adult	Field Observation
		01/08/2003	SU7603	Thorney Island	2-9 Adult	Field Observation
		16/07/2003	SU7603	Thorney Island	1 Adult	Field Observation
		01/06/2003	SU7603	Thorney Island	1 Adult	Field Observation
		16/05/2003	SU7603	Thorney Island	2-9 Adult	Field Observation
		03/05/2003	SU752048	Thorney Deepes	1 Adult	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		01/05/2003	SU7603	Thorney Island	10-29 Adult	Field Observation
		09/10/2002	SU7603	Thorney Island	1 Adult	Field Observation
		01/10/2002	SU7603	Thorney Island	2-9 Adult	Field Observation
		16/09/2002	SU7603	Thorney Island	2-9 Adult	Field Observation
		16/08/2002	SU7603	Thorney Island	10-29 Adult	Field Observation
		01/08/2002	SU7603	Thorney Island	10-29 Adult	Field Observation
		16/07/2002	SU7603	Thorney Island	10-29 Adult	Field Observation
		01/06/2002	SU7603	Thorney Island	1 Adult	Field Observation
		16/05/2002	SU7603	Thorney Island	30-99 Adult	Field Observation
		01/05/2002	SU7603	Thorney Island	30-99 Adult	Field Observation
		16/04/2002	SU7603	Thorney Island	2-9 Adult	Field Observation
		09/10/2001	SU7603	Thorney Island	1 Adult	Field Observation
		01/10/2001	SU7603	Thorney Island	2-9 Adult	Field Observation
		25/09/2001	SU7603	Thorney Island	2-9 Adult	Field Observation
		16/09/2001	SU7603	Thorney Island	2-9 Adult	Field Observation
		16/08/2001	SU7603	Thorney Island	10-29 Adult	Field Observation
		05/08/2001	SU7603	Thorney Island	30-99 Adult	Field Observation
		01/08/2001	SU7603	Thorney Island	30-99 Adult	Field Observation
		21/07/2001	SU7603	Thorney Island	1 Adult	Field Observation
		16/07/2001	SU7603	Thorney Island	2-9 Adult	Field Observation
		10/06/2001	SU7603	Thorney Island	1 Adult	Field Observation
		01/06/2001	SU7603	Thorney Island	2-9 Adult	Field Observation
		25/05/2001	SU7603	Thorney Island	10-29 Adult	Field Observation
		16/05/2001	SU7603	Thorney Island	10-29 Adult	Field Observation
		15/05/2001	SU7603	Thorney Island	1 Adult	Field Observation
		01/05/2001	SU7603	Thorney Island	2-9 Adult	Field Observation
		08/10/2000	SU7603	Thorney Island	1 Adult	Field Observation
		01/10/2000	SU7603	Thorney Island	2-9 Adult	Field Observation
		23/09/2000	SU7603	Thorney Island	2-9 Adult	Field Observation
		16/09/2000	SU7603	Thorney Island	2-9 Adult	Field Observation
		13/09/2000	SU7603	Thorney Island	2-9 Adult	Field Observation
		01/09/2000	SU7603	Thorney Island	1 Adult	Field Observation
		16/08/2000	SU7603	Thorney Island	2-9 Adult	Field Observation
		05/08/2000	SU7603	Thorney Island	30-99 Adult	Field Observation
		01/08/2000	SU7603	Thorney Island	30-99 Adult	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		16/07/2000	SU7603	Thorney Island	2-9 Adult	Field Observation
		01/06/2000	SU7603	Thorney Island	2-9 Adult	Field Observation
		17/05/2000	SU7603	Thorney Island	30-99 Adult	Field Observation
		16/05/2000	SU7603	Thorney Island	30-99 Adult	Field Observation
		01/05/2000	SU7603	Thorney Island	10-29 Adult	Field Observation
		15/10/1999	SU7603	Thorney Island	2-9 Adult	Field Observation
		30/09/1999	SU7603	Thorney Island	10-29 Adult	Field Observation
		15/09/1999	SU7603	Thorney Island	2-9 Adult	Field Observation
		31/08/1999	SU7603	Thorney Island	2-9 Adult	Field Observation
		15/08/1999	SU7603	Thorney Island	30-99 Adult	Field Observation
		31/07/1999	SU7603	Thorney Island	2-9 Adult	Field Observation
		15/06/1999	SU7603	Thorney Island	1 Adult	Field Observation
		31/05/1999	SU7603	Thorney Island	30-99 Adult	Field Observation
		15/05/1999	SU7603	Thorney Island	10-29 Adult	Field Observation
		15/10/1998	SU7603	Thorney Island, Emsworth	2-9 Adult	Field Observation
		31/08/1998	SU7603	Thorney Island, Emsworth	2-9 Adult	Field Observation
		15/08/1998	SU7603	Thorney Island, Emsworth	2-9 Adult	Field Observation
		31/05/1998	SU7603	Thorney Island, Emsworth	10-29 Adult	Field Observation
		15/05/1998	SU7603	Thorney Island, Emsworth	2-9 Adult	Field Observation
		21/10/1997	SU7603	Thorney Island, Emsworth	1 Adult	Field Observation
		07/10/1997	SU7603	Thorney Island, Emsworth	2-9 Adult	Field Observation
		21/09/1997	SU7603	Thorney Island, Emsworth	2-9 Adult	Field Observation
		21/08/1997	SU7603	Thorney Island, Emsworth	1 Adult	Field Observation
		07/08/1997	SU7603	Thorney Island, Emsworth	2-9 Adult	Field Observation
		21/07/1997	SU7603	Thorney Island, Emsworth	1 Adult	Field Observation
		21/05/1997	SU7603	Thorney Island, Emsworth	2-9 Adult	Field Observation
		07/05/1997	SU7603	Thorney Island, Emsworth	2-9 Adult	Field Observation
		11/06/1996	SU7504	Thorney Island,		Field Observation
		11/06/1996	SU7504	Thorney Island, Emsworth	1 Adult	Field Observation
		11/06/1996	SU7504	Thorney Island, Emsworth, SSCI C73	Present	Field Observation
		15/10/1995	SU7603	Thorney Island, Emsworth	1 Present	Field Observation
		01/10/1995	SU7603	Thorney Island, Emsworth	1 Present	Field Observation
		15/09/1995	SU7603	Thorney Island, Emsworth	2-9 Present	Field Observation
		01/09/1995	SU7603	Thorney Island, Emsworth	2-9 Present	Field Observation
		15/08/1995	SU7603	Thorney Island, Emsworth	1 Present	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		01/08/1995	SU7603	Thorney Island, Emsworth	2-9 Present	Field Observation
		15/07/1995	SU7603	Thorney Island, Emsworth	2-9 Present	Field Observation
		15/05/1995	SU7603	Thorney Island, Emsworth	2-9 Present	Field Observation
		01/05/1995	SU7603	Thorney Island, Emsworth	2-9 Present	Field Observation
		1991	SU7555504357	Eames Farm, Eames Farm area	1	Various or unknown
<i>Nymphalis polychloros</i>	Large Tortoiseshell	30/04/1999	SU7603	Thorney Island	10-29 Adult	Field Observation
<i>Polyommatus coridon</i>	Chalk Hill Blue	23/07/2001	SU753051	Thorney Deepes	1 Adult	Field Observation
		23/07/2001	SU753051	Thorney Island	1 Adult	Field Observation
		04/08/2000	SU752045	Thorney Island	1 Adult	Field Observation
		01/08/2000	SU7603	Thorney Island	1 Adult	Field Observation
<i>Pyrgus malvae</i>	Grizzled Skipper	08/05/2012	SU7807	SU7807 Hambrook, North of A27 (1km sq)	1 Adult	Field Observation
		06/04/2012	SU7807	SU7807 Hambrook, North of A27 (1km sq)	1 Adult	Field Observation
<i>Satyrrium w-album</i>	White-letter Hairstreak	12/07/2010	SU769052	Southbourne, Elm copse	2 Adult	Field Observation
		23/06/2008	SU784063	Priors Leaze Lane, Hambrook	1 Adult	Field Observation
		1996 - 2000	SU70R		Present	Field Observation
<b>Invertebrates - Dragonflies &amp; Damselflies</b>						
<i>Coenagrion pulchellum</i>	Variable Coenagrion	02/05/2019	SU779056	Southbourne - Nellie's Field (West of Footpath 257)	Present	Field Observation
<i>Erythromma viridulum</i>	Small Red-eyed Damselfly	09/08/2012	SU754051	Thorney Deepes, By houses on stilts	Present	Field Observation
		30/08/2010	SU749039	Thorney Island	1 Adult	Field Observation
<b>Invertebrates - Grasshoppers &amp; Crickets</b>						
<i>Conocephalus fuscus</i>	Long-winged Cone-head	22/08/2017	SU764042	Thorney Island	Present female	Field Observation
		Aug-91	SU76070472	Slipper Hovel field by road, North end of W. sea wall	1	Field Observation
		Aug-91	SU76550416	N end E seawall, North end of W. sea wall	1	Field Observation
		Aug-91	SU7660303982	Eastern sea wall	1	Field Observation
		Aug-91	SU76630395	SU70R Thorney Island, sea wall	Present	Field Observation
		Aug-91	SU76630395	Western Sea Wall	1	Field Observation
<b>Invertebrates - Molluscs</b>						
<i>Cerastoderma glaucum</i>	Lagoon Cockle	18/06/2001 - 18/09/2001	SU753056	Slipper Mill Pond, Emsworth	Present	Field Observation
		12/03/1998	SU75290576	Emsworth, Slipper and Peter Pond	1	Various or unknown
<i>Ostrea edulis</i>	Common Oyster	22/08/2017	SU765045	Thorney Island	1 present	Field Observation
<b>Invertebrates - Moths</b>						
<i>Acronicta rumicis</i>	Knot Grass	23/07/2012 - 14/08/2012	SU787052	Chidham, off Cot Lane	2 Adult	Moth Trap
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
<i>Amphipoea fucosa paludis</i>	Saltern Ear	1991	SU75460469	Thorney Island, Little Deep	Present	Field Observation
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
		1991	SU7555504357	Eames Farm, Eames Farm area	1	Various or unknown
		26/07/1991	SU7504	Thorney Little Deeps	1	Field Observation
<i>Amphipoea oculea</i>	Ear Moth	1991	SU7546804696	Little Deep EF hayfield		Various or unknown
		1991	SU7555504357	Eames Farm, Eames Farm area	1	Various or unknown
		26/07/1991	SU7504	Thorney Little Deeps	4	Field Observation
		17/07/1989	SU7504	Thorney Little Deeps	1	Field Observation
<i>Amphipyra tragopoginis</i>	Mouse Moth	1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
		1991	SU7555504357	Eames Farm, Eames Farm area	1	Various or unknown
		21/08/1991	SU7504	Thorney Little Deeps	1	Field Observation
<i>Apamea remissa</i>	Dusky Brocade	1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
<i>Arctia caja</i>	Garden Tiger	05/08/2018	SU7506	Emsworth	Present	Field Observation
		23/07/2015	SU76130570	Tuppenny Barn - Pond Area	1 Adult	Field Observation
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
		1991	SU7555504357	Eames Farm, Eames Farm area	1	Various or unknown
		04/08/1991	SU7504	Thorney Little Deeps	1	Field Observation
		26/07/1991	SU7504	Thorney Little Deeps	1	Field Observation
<i>Caradrina morpheus</i>	Mottled Rustic	1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
		1991	SU7555504357	Eames Farm, Eames Farm area	1	Various or unknown
		26/07/1991	SU7504	Thorney Little Deeps	3	Field Observation
<i>Chilodes maritima</i>	Silky Wainscot	1991	SU75460469	Thorney Island, Little Deep	Present	Field Observation
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
		17/07/1989	SU7504	Thorney Little Deeps	2	Field Observation
<i>Cirrhia icteritia</i>	Sallow	1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
<i>Coleophora conyzae</i>	Spikenard Case-bearer	09/06/1990	SU7604	Thorney Island,	1 Case	Daytime observation
<i>Coleophora vibicella</i>	Large Gold Case-bearer	13/07/2018	SU7603	Eames Farm, Thorney Island	445 Case	Field Observation
		13/07/2018	SU7604	Eames Farm, Thorney Island	636 Case	Field Observation
		13/07/2018	SU764043	Thornham Point, Thorney Island	81 Case	Field Observation
		12/07/2017	SU7603	Eames Farm, Thorney Island	685 Case	Field Observation
		12/07/2017	SU7604	Eames Farm, Thorney Island	527 Case	Field Observation
		12/07/2017	SU764043	Thornham Point, Thorney Island	114 Case	Field Observation
		08/07/2016	SU765040	Chichester Harbour	>10 Present	Field Observation
		23/06/2015	SU7603	Eames Farm, Thorney Island	104 Case	Field Observation
		23/06/2015	SU7604	Eames Farm, Thorney Island	36 Case	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		23/06/2015	SU764043	Thornham Point, Thorney Island	502 Case	Field Observation
		17/07/2014	SU7603	Eames Farm, Thorney Island	28 Case	Field Observation
		17/07/2014	SU7604	Eames Farm, Thorney Island	34 Case	Field Observation
		17/07/2014	SU764043	Thornham Point, Thorney Island	22 Case	Field Observation
		03/07/2013	SU7603	Eames Farm, Thorney Island	279 Case	Field Observation
		03/07/2013	SU7604	Eames Farm, Thorney Island	114 Case	Field Observation
		13/07/2012	SU7603	Eames Farm, Thorney Island	398 Case	Field Observation
		13/07/2012	SU7604	Eames Farm, Thorney Island	327 Case	Field Observation
		26/06/2012	SU764043	Thornham Point, Thorney Island	6 Case	Field Observation
		24/08/2011	SU7604	Eames Farm, Thorney Island	2 Unsexed Adult	Field Observation
		06/07/2011	SU7603	Eames Farm, Thorney Island	403 Case	Field Observation
		06/07/2011	SU7604	Eames Farm, Thorney Island	484 Case	Field Observation
		01/07/2010 - 31/07/2010	SU7603	Eames Farm, Thorney Island	1246 Case	Field Observation
		01/07/2010 - 31/07/2010	SU7604	Eames Farm, Thorney Island	1621 Case	Field Observation
		19/07/2010	SU7603	Eames Farm, Thorney Island	3 Unsexed Adult	Field Observation
		07/07/2010	SU764043	Thornham Point, Thorney Island	3 Case	Field Observation
		19/06/2009	SU764043	Thornham Point, Thorney Island	209 Case	Field Observation
		10/09/2008	SU765041	Eames Farm, Thorney Island	20 Case	Field Observation
		27/06/2008	SU749041	Western Deeps, Eames Farm, Thorney Island	5 Case	Field Observation
		17/06/2008 - 27/06/2008	SU7604	Eames Farm, Thorney Island	228 Case	Field Observation
		19/06/2008	SU766039	Eames Farm, Thorney Island	2 Case	Field Observation
		13/06/2008 - 17/06/2008	SU764043	Thornham Point, Thorney Island	244 Case	Field Observation
		07/05/2008	SU765041	Eames Farm, Thorney Island	4 Case	Field Observation
		19/04/1997	SU7604	Thorney Island,	Present Case	Daytime observation
		09/06/1990	SU7604	Thorney Island,	Present Case	Daytime observation
		07/08/1983	SU7604	Thorney Island,	Present Case	Daytime observation
<i>Cucullia asteris</i>	Star-wort	27/08/1993	SU7504	Thorney Little Deeps	15	Field Observation
		Aug-91	SU76630395	Western Sea Wall	1	Field Observation
<i>Diarsia rubi</i>	Small Square-spot	1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
<i>Dolicharthria punctalis</i>	Long-legged China-mark	1991	SU75460469	Thorney Island, Little Deep	Present	Field Observation
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
		1991	SU7555504357	Eames Farm, Eames Farm area	1	Various or unknown

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
<i>Ennomos erosaria</i>	September Thorn	23/07/2012 - 14/08/2012	SU787052	Chidham, off Cot Lane	1 Adult	Moth Trap
<i>Eupithecia insigniata</i>	Pinion-spotted Pug	1991	SU75460469	Thorney Island, Little Deep	Present	Field Observation
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
<i>Euxoa tritici</i>	Dusky Dart	1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
		1991	SU7555504357	Eames Farm, Eames Farm area	1	Various or unknown
		04/08/1991	SU7504	Thorney Little Deeps	1	Field Observation
<i>Globia sparganii</i>	Webb's Wainscot	1991	SU75460469	Thorney Island, Little Deep	Present	Field Observation
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
		1991	SU7555504357	Eames Farm, Eames Farm area	1	Various or unknown
		21/08/1991	SU7504	Thorney Little Deeps	1	Field Observation
		17/07/1989	SU7504	Thorney Little Deeps	1	Field Observation
<i>Helotropha leucostigma</i>	Crescent	1991	SU75460469	Thorney Island, Little Deep	Present	Field Observation
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
		1991	SU7555504357	Eames Farm, Eames Farm area	1	Various or unknown
		04/08/1991	SU7504	Thorney Little Deeps	6	Field Observation
		26/07/1991	SU7504	Thorney Little Deeps	3	Field Observation
		17/07/1989	SU7504	Thorney Little Deeps	5	Field Observation
<i>Hepialus humuli</i>	Ghost Moth	1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
<i>Hoplodrina blanda</i>	Rustic	26/07/2011	SU756044	Eames Farm Thorney Deeps	6 Adult	MV Trap (part night)
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
		1991	SU7555504357	Eames Farm, Eames Farm area	1	Various or unknown
		04/08/1991	SU7504	Thorney Little Deeps	1	Field Observation
		26/07/1991	SU7504	Thorney Little Deeps	3	Field Observation
		17/07/1989	SU7504	Thorney Little Deeps	2	Field Observation
<i>Hydraecia micacea</i>	Rosy Rustic	23/08/2011	SU756044	Eames Farm Thorney Deeps	2 Adult	MV Trap (part night)
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
		1991	SU7555504357	Eames Farm, Eames Farm area	1	Various or unknown
		04/08/1991	SU7504	Thorney Little Deeps	1	Field Observation
<i>Lacanobia suasa</i>	Dog's Tooth	1991	SU75460469	Thorney Island, Little Deep	Present	Field Observation
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
<i>Leucania comma</i>	Shoulder-striped Wainscot	23/07/2012 - 14/08/2012	SU787052	Chidham, off Cot Lane	1 Adult	Moth Trap
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
<i>Leucania obsoleta</i>	Obscure Wainscot	1991	SU75460469	Thorney Island, Little Deep	Present	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
<i>Litoligia literosa</i>	Rosy Minor	26/07/2011	SU756044	Eames Farm Thorney Deeps	2 Adult	MV Trap (part night)
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
<i>Malacosoma neustria</i>	Lackey	1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
<i>Meganola albula</i>	Kent Black Arches	1991	SU75460469	Thorney Island, Little Deep	Present	Field Observation
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
		1991	SU7555504357	Eames Farm, Eames Farm area	1	Various or unknown
		26/07/1991	SU7504	Thorney Little Deeps	3	Field Observation
<i>Melanchra persicariae</i>	Dot Moth	1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
<i>Mirificarma lentiginosella</i>	Greenweed Groundling	24/08/2011	SU7604	Eames Farm, Thorney Island	1 Adult Male	Netted
		27/08/2009	SU766039	Eames Farm, Thorney Island	1 Unsexed Adult	Field Observation
		20/04/2009	SU7604	Eames Farm, Thorney Island	Present Larva	Field Observation
		19/04/1997	SU7604	Thorney Island,	Present Larva	Daytime observation
		18/06/1980	SU764044	Thorney Island	3 Larva	Bred
<i>Monochroa moyses</i>	Coast Neb	12/10/1997	SU7504	Thorney Island,	Present Larva	Daytime observation
		11/09/1994	SU7504	Thorney Island,	Present Larva	Daytime observation
		08/09/1990	SU7505	Southbourne CP, Southbourne	Present Larva	Daytime observation
		09/09/1989	SU7505	Southbourne CP, Southbourne	3 Larva	Daytime observation
		26/08/1989	SU7505	Southbourne CP, Southbourne	4 Larva	Bred
<i>Mythimna l-album</i>	L-album Wainscot	22/06/2019	SU76750584	Southbourne CP, southbourne	1 Adult	Moth Trap
		21/06/2019	SU76760584	Southbourne CP, southbourne	1 Adult	Unspecified
<i>Orthosia gracilis</i>	Powdered Quaker	1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
<i>Pempelia genistella</i>	Gorse Knot-horn	1991	SU75460469	Thorney Island, Little Deep	Present	Field Observation
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
<i>Rhizedra lutosa</i>	Large Wainscot	1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
<i>Scopula emutaria</i>	Rosy Wave	22/08/2017	SU764042	Thorney Island	1 Adult	Field Observation
		24/08/2011	SU7604	Eames Farm, Thorney Island	1 Unsexed Adult	Field Observation
<i>Scotopteryx chenopodiata</i>	Shaded Broad-bar	26/07/2010	SU7603	Eames Farm, Thorney Island	Present Unsexed Adult	Field Observation
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
		1991	SU7555504357	Eames Farm, Eames Farm area	1	Various or unknown
		04/08/1991	SU7504	Thorney Little Deeps	4	Field Observation
		26/07/1991	SU7504	Thorney Little Deeps	2	Field Observation
<i>Sitochroa palealis</i>	Sulphur Pearl	10/09/2008	SU765041	Eames Farm, Thorney Island	5 Larva	Field Observation



Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		18/09/1997	SU765044	Thornham Lane, sea wall and fields, Thorney Island, Field at Thornham Point	Present	Field Observation
		01/07/1997	SU764043	Hodge, 1997, Area 1, Thornham Point	1	Field Observation
		01/07/1997	SU764043	Thorney Island, Hodge area 1	Present	Field Observation
		11/09/1994	SU7604	Thorney Island,	Present Larva	Daytime observation
		20/07/1993	SU7504	Thorney Little Deeps	12	Field Observation
		1991	SU75460469	Thorney Island, Little Deep	Present	Field Observation
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
		1991	SU7555504357	Eames Farm, Eames Farm area	1	Various or unknown
		26/07/1991	SU7504	Thorney Little Deeps	4	Field Observation
<i>Spilosoma lubricipeda</i>	White Ermine	22/06/2019	SU77190581	Southbourne CP, southbourne	1 Adult Male	Moth Trap
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
<i>Spilosoma lutea</i>	Buff Ermine	22/06/2019	SU77190581	Southbourne CP, southbourne	2 Adult Male	Moth Trap
		23/07/2012 - 14/08/2012	SU787052	Chidham, off Cot Lane	1 Adult	Moth Trap
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
<i>Synaphe punctalis</i>	Long-legged Tabby	23/08/2011	SU756044	Eames Farm Thorney Deeps	1 Adult	MV Trap (part night)
		19/07/2010	SU7603	Eames Farm, Thorney Island	Present Unsexed Adult	Field Observation
		07/07/2010	SU7604	Eames Farm, Thorney Island	Present Unsexed Adult	Field Observation
		1991	SU75460469	Thorney Island, Little Deep	Present	Field Observation
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
<i>Tholera decimalis</i>	Feathered Gothic	19/09/2011	SU756044	Eames Farm Thorney Deeps	1 Adult	MV Trap (part night)
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
<i>Timandra comae</i>	Blood-vein	13/07/2018	SU764043	Thornham Point, Thorney Island	1 Adult	Field Observation
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
		1991	SU7555504357	Eames Farm, Eames Farm area	1	Various or unknown
<i>Tyria jacobaeae</i>	Cinnabar	22/06/2019	SU77190581	Southbourne CP, southbourne	1 Adult	Moth Trap
		21/06/2019	SU77210585	Southbourne CP, southbourne	1 Adult	Unspecified
		10/06/2019	SU77070488	Prinsted	Present	Unspecified
		19/06/2015	SU785052	Maybush Copse, Chidham, Chichester	2 Adult	Field Observation
		23/07/2012 - 23/08/2012	SU787052	Chidham, off Cot Lane	30 Present	Unknown
		28/07/2009	SU7504	Thorney Island	Present Larva	Field Observation
		04/07/2003	SU7504	Thorney Little Deeps	2	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		30/06/2003	SU7504	Thorney Little Deeps	2	Field Observation
		13/06/1993	SU7504	Thorney Little Deeps	3	Field Observation
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
		1991	SU7555504357	Eames Farm, Eames Farm area	1	Various or unknown
		29/05/1989	SU7504	Thorney Little Deeps	1	Field Observation
<i>Watsonalla binaria</i>	Oak Hook-tip	23/07/2012 - 14/08/2012	SU787052	Chidham, off Cot Lane	1 Adult	Moth Trap
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
<i>Xanthorhoe ferrugata</i>	Dark-barred Twin-spot Carpet	23/07/2012 - 14/08/2012	SU787052	Chidham, off Cot Lane	1 Adult	Moth Trap
		1991	SU7546804696	Little Deep EF hayfield	1	Various or unknown
<b>Invertebrates - Sea Anemones, Jellyfish &amp; Corals</b>						
<i>Nematostella vectensis</i>	Starlet Sea Anemone	1980 - 2002	SU753058	Slipper Pond	Present	Field Observation
		1980 - 2001	SU752058	Peter Pond	Present	Field Observation
		12/03/1998	SU75290576	Emsworth, Slipper and Peter Pond	1	Various or unknown
		1982	SU75290576	Emsworth, Slipper and Peter Pond	1	Various or unknown
<b>Invertebrates - Segmented Worms</b>						
<i>Alkmaria romijni</i>	Tentacled Lagoon-Worm	1980 - 2001	SU752058	Peter Pond	Present	Field Observation
		12/03/1998	SU75290576	Emsworth, Slipper and Peter Pond	1	Various or unknown
		1991	SU75290576	Emsworth, Slipper and Peter Pond	1	Various or unknown
		1987	SU75290576	Emsworth, Slipper and Peter Pond	1	Various or unknown
		1982	SU75290576	Emsworth, Slipper and Peter Pond	1	Various or unknown
<b>Invertebrates - Spiders</b>						
<i>Arctosa fulvilineata</i>	Yellow-striped Bear-spider	07/06/2005	SU765040	Thorney Island	1 Adult Male	Pitfall Trap
<i>Argenna patula</i>	A Spider	Aug-91	SU7555504357	Eames Farm, Eames Farm Area	1	Field Observation
		22/08/1991 - 23/08/1991	SU755043	Thorney Island, Emsworth, Eames Farm area		Field Observation
<i>Argiope bruennichi</i>	Wasp Spider	12/08/2019	SU764043	Thornham Point, Chichester hbr	30 Adult	Field Observation
		22/08/2017	SU764042	Thorney Island	1 Immature	Field Observation
		04/08/2006	SU787065	Hambrook, Cobo Cottage	Present	Field Observation
		1999	SU7806	Garden at Hambrook	Present Female	Field Observation
		1991	SU7555504357	Eames Farm, Eames Farm area	1	Various or unknown
		Aug-91	SU7555504357	Eames Farm, Eames Farm Area	1	Field Observation
		Aug-91	SU76550416	N end E seawall, North end of W. sea wall	1	Field Observation
Aug-91	SU76550416	Thorney Island, Emsworth, Sea wall, Also at 76600398	Present	Field Observation		

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		Aug-91	SU7660303982	Eastern sea wall	1	Field Observation
		Aug-91	SU76630395	Western Sea Wall	1	Field Observation
		22/08/1991 - 23/08/1991	SU755043	Thorney Island, Emsworth, Eames Farm		Field Observation
<i>Cozyptila blackwalli</i>	A Spider	Aug-91	SU7555504357	Eames Farm, Eames Farm Area	1	Field Observation
<i>Drassodes pubescens</i>	A Spider	Aug-91	SU7555504357	Eames Farm, Eames Farm Area	1	Field Observation
<i>Halorates reprobus</i>	A Spider	Aug-91	SU7555504357	Eames Farm, Eames Farm Area	1	Field Observation
<i>Liocranoeca striata</i>	A Spider	Aug-91	SU7555504357	Eames Farm, Eames Farm Area		Field Observation
<i>Micaria albovittata</i>	A Spider	Aug-91	SU7555504357	Eames Farm, Eames Farm Area	1	Field Observation
<i>Pardosa agrestis</i>	A Spider	Aug-91	SU7555504357	Eames Farm, Eames Farm Area		Field Observation
		Aug-91	SU7555504357	Eames Farm, Eames Farm Area	1	Field Observation
<i>Thanatus striatus</i>	A Spider	22/08/2017	SU765042	Thorney Island	Present	Field Observation
<b>Invertebrates - True Bugs</b>						
<i>Nysius graminicola</i>	A True Bug	31/08/2013	SU7504	Eames Farm, Thorney Island	1 Adult Female	Netted
<i>Orthotylus (Melanotrichus) moncreaffi</i>	A True Bug	01/07/1997	SU764043	Hodge, 1997, Area 1, Thornham Point	1	Field Observation
		1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		04/08/1991	SU7504	Eames Farm, Southbourne	Present	Field Observation
<i>Orthotylus (Melanotrichus) rubidus</i>	Plant bug	01/07/1997	SU764043	Thorney Island, Hodge 1997 area 1	Present	Field Observation
		1991	SU7503	Thorney island	1 Adult	Field Observation
		1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		1991	SU766039	Eames Farm meadows, Southbourne	Present	Field Observation
		04/08/1991	SU7504	Eames Farm, Southbourne	Present	Field Observation
<i>Pentastiridius leporinus</i>	A True Bug	18/09/1997	SU765044	Thornham Lane, sea wall and fields, Thorney Island, Field at Thornham Point	Present	Field Observation
		01/07/1997	SU764042	Hodge, 1997, Area 2, Thornham Point	1	Field Observation
		01/07/1997	SU764042	Thorney Island	Present	Field Observation
		01/07/1997	SU764043	Hodge, 1997, Area 1, Thornham Point	1	Field Observation
		01/07/1997	SU766041	Hodge, 1997, Area 3, Thornham Point	1	Field Observation
<i>Salda littoralis</i>	A True Bug	1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		08/07/1985	SU7604	Thornham marsh, Southbourne	Present	Field Observation
<i>Sigara (Halicorixa) selecta</i>	A True Bug	1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		04/08/1991	SU7504	Eames Farm, Southbourne	Present	Field Observation
		04/08/1991	SU765038	Eames Farm meadows, Southbourne	Present Adult	Field Observation
<b>Invertebrates - True Flies</b>						
<i>Aphrosylus mitis</i>	A True Fly	01/06/1990	SU767036	Thorney Island coast	1 Male	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
<i>Atylotus latistriatus</i>	Saltmarsh Horsefly	18/09/1997	SU765044	Thornham Lane, sea wall and fields, Thorney Island, Field at Thornham Point	Present	Field Observation
		Jul-97	SU7649304321	Thornham Point	1	Field Observation
		01/07/1997	SU764042	Hodge, 1997, Area 2, Thornham Point	1	Field Observation
		01/07/1997	SU764043	Hodge, 1997, Area 1, Thornham Point	1	Field Observation
		01/07/1997	SU764043	Thorney Island, Hodge,area 1 (and area 2,SU764042)	Present	Field Observation
		1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
<i>Campiglossa malaris</i>	A True Fly	23/07/2012 - 23/08/2012	SU787052	Chidham, off Cot Lane	Present	Unknown
<i>Ceratinostoma ostiorum</i>	A True Fly	1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
<i>Dolichopus strigipes</i>	A True Fly	1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
<i>Haematopota bigoti</i>	Big-spotted Cleg	1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
<i>Haematopota grandis</i>	Long-horned Cleg	1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
<i>Hybomitra expollicata</i>	Striped Horsefly	Jul-97	SU7649304321	Thornham Point	1	Field Observation
		1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
<i>Melieria cana</i>	A True Fly	27/06/2008	SU7604	Thorney Island	1 Adult Male	Field Observation
<i>Melieria picta</i>	A True Fly	27/08/2009	SU764043	Thornham Point, Thorney Island	1 Adult	Netted
		01/07/1997	SU764042	Hodge, 1997, Area 2, Thornham Point	1	Field Observation
		01/07/1997	SU764042	Thorney Island, Hodge,area 2(also areas 1,SU764043 and 3,SU764041)	Present	Field Observation
		01/07/1997	SU764043	Hodge, 1997, Area 1, Thornham Point	1	Field Observation
		01/07/1997	SU766041	Hodge, 1997, Area 3, Thornham Point	1	Field Observation
		1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		25/07/1991	SU763040	Thornham Marsh	1 Adult	Field Observation
<i>Merzomyia westermanni</i>	A True Fly	07/07/2010	SU7604	Eames Farm, Thorney Island	1 Unsexed Adult	Netted
<i>Myopites apicatus</i>	A True Fly	23/07/2012	SU78770538	Chidham, off Cot Lane	1 Present	Swept
<i>Myopites eximius</i>	A True Fly	31/08/2013	SU7504	Thorney Island	2 Adult	Netted
<i>Nemotelus pantherinus</i>	Fen Snout	1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
<i>Stratiomys longicornis</i>	Long-horned General	30/05/2016	SU7503	Thorney Island	1 Adult	Field Observation
		02/06/2012	SU7503	Thorney Island	4 Adult	Attracted to flowers
		12/05/2011	SU7504	Thorney Island 7504 includes Marina Farm area & Thornham Lane in	10 Adult	Attracted to flowers
		13/05/2010	SU7604	Thorney Island 7604	1 Adult	Field Observation
		31/05/2008	SU7604	Thorney Island 7604	6 Adult Male	Attracted to flowers
		25/05/2008	SU7604	Thorney Island 7604	4 Adult Female	Attracted to flowers
		22/05/2008	SU7604	Thorney Island 7604	4 Adult Male	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		19/05/2007	SU7604	Thorney Island 7604	2 Adult	Attracted to flowers
		17/05/2007	SU7604	Thorney Island 7604	9 Adult	Attracted to flowers
		18/09/1997	SU765044	Thornham Lane, sea wall and fields, Thorney Island, Field at Thornham Point	Present	Field Observation
		Jul-97	SU7649304321	Thornham Point	1	Field Observation
		1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
<i>Stratiomys potamida</i>	Banded General	30/07/2008	SU7504	Thorney Island 7504 includes Marina Farm area & Thornham Lane in	1 Adult Female	Field Observation
		1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
<i>Stratiomys singularior</i>	Flecked General	19/07/2013	SU7504	Thorney Island 7504 includes Marina Farm area & Thornham Lane in	2 Adult	Attracted to flowers
		02/06/2012	SU7503	Thorney Island	1 Adult	Attracted to flowers
		09/08/2011	SU7504	Thorney Island 7504 includes Marina Farm area & Thornham Lane in	1 Adult	Swept
		28/07/2009	SU7504	Thorney Island	1 Adult Female	Netted
		31/05/2008	SU7604	Thorney Island 7604	1 Adult Female	Attracted to flowers
		19/07/2007	SU7504	Thorney Island 7504 includes Marina Farm area & Thornham Lane in	1 Adult	Attracted to flowers
		23/07/2005	SU7504	Thorney Island 7504 includes Marina Farm area & Thornham Lane in	1 Adult	Attracted to flowers
		09/07/2005	SU7504	Thorney Island 7504 includes Marina Farm area & Thornham Lane in	1 Adult	Attracted to flowers
		19/07/1998	SU7504	Thorney Island 7504 includes Marina Farm area & Thornham Lane in	2 Adult	Attracted to flowers
		Jul-97	SU7649304321	Thornham Point	1	Field Observation
		23/07/1997	SU7503	Thorney Island	5 Adult	Attracted to flowers
		23/07/1997	SU7604	Thorney Island 7604	Present Adult	Attracted to flowers
		28/07/1996	SU7504	Thorney Island 7504 includes Marina Farm area & Thornham Lane in	1 Adult	Attracted to flowers
		24/07/1994	SU7503	Thorney Island	4 Adult	Attracted to flowers
		1992	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
		Aug-91	SU7660303982	Eastern sea wall	1	Field Observation
		Aug-91	SU76630395	Thorney Island, Sea wall (also 76600398)	Present	Field Observation
		Aug-91	SU76630395	Western Sea Wall	1	Field Observation
		07/09/1985	SU76630395	Thorney Island, W.sea wall	Present	Field Observation
		07/09/1985	SU76630395	Western Sea Wall		Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
<i>Thinophilus ruficornis</i>	A True Fly	1991	SU7555504357	Eames Farm, Eames Farm Area	1	Various or unknown
<i>Vanoyia tenuicornis</i>	Long-horned Soldier	1991	SU7555504357	Eames Farm, Eames Farm Area		Various or unknown
<i>Volucella zonaria</i>	Hornet Mimic Hoverfly	26/06/2017	SU785052	Maybush Woodlands, Chichester	1 Adult	Field Observation
<b>Lower Plants - Liverworts</b>						
<i>Ricciocarpos natans</i>	Fringed Heartwort	14/10/2010	SU70T	Westbourne, River Ems		Field Observation
		14/10/2010	SU7606	Westbourne, River Ems	Present	Unknown
<b>Lower Plants - Stoneworts</b>						
<i>Lamprothamnium papulosum</i>	Foxtail Stonewort	01/07/1998	SU75790419	Thorney Island, Near Great Deep	Present	Field Observation
		01/07/1998	SU7579504196	Thorney Deeps S Deeps, Thorney, nr Stony Lane	1	Field Observation
<b>Mammals - Terrestrial (excl. bats)</b>						
<i>Arvicola amphibius</i>	European Water Vole	29/07/2019	SU7606	Hambrook Lake	1 Adult	Field Observation
		04/06/2018	SU754065	River bank Lumley Road	Present Signs	Field Observation
		12/08/2014	SU75160597	Brook meadow, south bridge	1 Adult	Field Observation
		02/05/2012	SU751059	Brook Meadows	1 Present	Unknown
		02/05/2012	SU751059	Brook Meadows	Numerous	Unknown
		18/04/2012	SU751059	Brook Meadows	4 Present	Unknown
		30/03/2005	SU751043	Chidham CP, Chidham - land owned by Mr Bradley ward, 91 eccles road, Battersea , london		Field Observation
		Aug-03	SU785064	Hambrook, Priors Leaze Lane	1	Field Observation
		2002	SU753064	Southbourne CP, Peters Pond, Brook Meadow	1	Field Observation
		2002	SU776052	Ham Brook	several Adult	Field Observation
		04/04/2002	SU776055	Ham Brook, Nutbourne	Present	Field Observation
		Feb-02	SU7506	Southbourne CP, River Ems, Brook Meadow	1	Field Observation
		2001	SU70N	Brook Meadows E of Emsworth	1 Female; Present	Field Observation
		20/12/2001	SU776053	Farm Lane, Nutbourne	Present	Field Observation
		20/12/2001	SU777049	Nutbourne Marshes	Present	Field Observation
1999	SU776054	Nutbourne,School Lane ford	Present	Field Observation		
Jun-98	SU781058	Nutbourne,Hambrook fishery	Present	Field Observation		
<i>Erinaceus europaeus</i>	West European Hedgehog	14/04/2020	SU768067	Southbourne CP, Southbourne	1 Adult	Field Observation
		31/03/2020	SU77170670	Fraser Gardnes	1 Present	Field Observation
		29/03/2020	SU77180670	Fraser Gardens	2 Present	Field Observation
		14/03/2020	SU75870573	Southbourne CP, Southbourne	1 Present	Field Observation
		25/11/2019	SU77050637	Southbourne CP, Southbourne	1 Adult	Field Observation
		17/11/2019	SU770063	Garden, Southbourne	1 Present	Field Observation
		08/11/2019	SU77050638	Southbourne, West Sussex	1 pre- Adult	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		17/10/2019	SU77050638	Southbourne private garden	1 Present	Field Observation
		10/10/2019	SU77040639	Southbourne garden	1 Present	Field Observation
		12/09/2019	SU7906	Potters Corner	Present	Field Observation
		22/06/2019	SU78010539	31 Nutbourne Park	2 Present	Unspecified
		10/06/2019	SU7705	Flanders Place Southbourne	2-5 Adult	Unspecified
		10/05/2019	SU76620621	Southbourne CP, Southbourne	2-5 Adult	Unspecified
		22/10/2018	SU77020557	Southbourne	1 Adult	Field Observation
		25/09/2018	SU76590558	Prinsted	1 Present	Field Observation
		19/07/2018	SU77000557	Rose Cottage Southbourne West Sussex	1 Adult	Unspecified
		19/07/2018	SU77010556	Southbourne	1 Adult	Field Observation
		20/06/2018	SU76870592	Manor road, Southbourne	1 Dead	Field Observation
		12/04/2018	SU77180648	Southbourne	Present	Field Observation
		Dec-17	SU771057	Southbourne	1 Present	Field Observation
		22/11/2017	SU771069	Southbourne	3 Present	Field Observation
		20/11/2017	SU770064	Southbourne	1 Present	Field Observation
		Oct-17	SU768059	Southbourne	3 Present	Field Observation
		01/09/2017	SU770059	Southbourne CP, Southbourne	2-5 Adult	Unspecified
		21/06/2017	SU76710550	Southbourne CP, Southbourne	2 Adult	Field Observation
		01/06/2017	SU76710550	22 Frarydene	1 Adult	Field Observation
		01/06/2017	SU76710550	22 Frarydene, Southbourne	1 Adult	Field Observation
		14/11/2016	SU77010554	Southbourne	1 Present	Field Observation
		January 2016 - May 2016	SU786067	Unspecified Location Within Southbourne CP	present	Field Observation
		08/05/2016	SU75840574	Emsworth	1 Present	Field Observation
		06/04/2016	SU76990655	Garden of 3 Wentworth Drive, Southbourne	2 Adult	Field Observation
		2015	SU766060	Unspecified Location Within Southbourne CP	present	Field Observation
		2015	SU787045	Unspecified Location Within Southbourne CP	present	Field Observation
		23/07/2015	SU76710550	Southbourne	1 Adult	Unknown
		02/04/2014	SU770066	Breach Avenue, Southbourne	1 Present	Field Observation
		08/03/2014	SU772066	The Orchard, Breach Avenue, Southbourne	Present	Field Observation
		2013	SU772066	Orchard end of Breach Avenue, Southbourne	Present	Field Observation
		2006	SU7605	Unspecified Location Within Southbourne CP	1 Adult	Field Observation
<i>Mustela putorius</i>	Polecat	06/04/2013	SU785052	Maybush Copse, Chidham	1 Present	Field Observation
		06/04/2012	SU7845805249	Maybush Copse, Cot lane, Chidham	1 Adult	Camera Trap
<i>Mustela putorius subsp. furo</i>	Feral Ferret	31/03/2006	SU773071	Woodmancote	1 Dead	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
<i>Oryctolagus cuniculus</i>	European Rabbit	12/09/2019	SU7906	Potters Corner	Present	Field Observation
		03/08/2019	SU7906	Potters Corner	Present	Field Observation
		22/07/2019	SU754052	Emsworth Harbour	6 Present	Field Observation
		20/05/2019	SU785052	Nutbourne	2 Present	Field Observation
		23/05/2015	SU75620552	Field	Present	Field Observation
		07/04/2015	SU764045	Thornham	Present	Field Observation
		2013	SU772066	Orchard end of Breach Avenue, Southbourne	Present	Field Observation
		04/03/1982	SU757051	Thorney Sewage Works	Present	Field Observation
<b>Reptiles</b>						
<i>Anguis fragilis</i>	Slow-worm	26/05/2018	SU77180650	Southbourne	Present	Field Observation
		06/09/2017	SU785052	Maybush Copse	17 Present	Field Observation
		10/06/2017	SU769065	Public footpath at Breach Avenue, Southbourne	1 Present	Field Observation
		21/04/2016	SU772066	The Orchard, Breach Avenue, Southbourne	1 Adult	Field Observation
		22/10/2015	SU77180649	Southbourne	Present	Field Observation
		12/06/2014	SU7699106556	3 Wentworth Drive, Southbourne	1 Adult	Field Observation
		28/05/2014 - 11/06/2014	SU780055	Nellies Field, Nutbourne	19 Present	Unknown
		02/04/2014 - 16/04/2014	SU763057	Main Road, Southbourne	1 Female	Unknown
		02/04/2014 - 16/04/2014	SU763057	Main Road, Southbourne	1 Male	Unknown
		2013	SU772066	Orchard end of Breach Avenue, Southbourne	Present	Field Observation
		09/07/2013	SU767060	Manor Way, Southbourne, Emsworth	10 Adult Female	Refugia Mat
		09/07/2013	SU767060	Manor Way, Southbourne, Emsworth	9 Adult Female	Refugia Mat
		03/07/2013	SU767060	Manor Way, Southbourne, Emsworth	11 Adult Female	Refugia Mat
		03/07/2013	SU767060	Manor Way, Southbourne, Emsworth	37 Adult Female	Refugia Mat
		03/07/2013	SU767060	Manor Way, Southbourne, Emsworth	39 Adult Female	Refugia Mat
		01/07/2013	SU767060	Manor Way, Southbourne, Emsworth	13 Adult Female	Refugia Mat
		01/07/2013	SU767060	Manor Way, Southbourne, Emsworth	15 Adult Female	Refugia Mat
		01/07/2013	SU767060	Manor Way, Southbourne, Emsworth	19 Adult Female	Refugia Mat
		27/06/2013	SU767060	Manor Way, Southbourne, Emsworth	21 Adult Female	Refugia Mat
		27/06/2013	SU767060	Manor Way, Southbourne, Emsworth	25 Adult Female	Refugia Mat
		27/06/2013	SU767060	Manor Way, Southbourne, Emsworth	8 Adult Female	Refugia Mat
		24/06/2013	SU767060	Manor Way, Southbourne, Emsworth	21 Adult Female	Refugia Mat
		24/06/2013	SU767060	Manor Way, Southbourne, Emsworth	26 Adult Female	Refugia Mat



Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		24/06/2013	SU767060	Manor Way, Southbourne, Emsworth	40 Adult Female	Refugia Mat
		20/06/2013	SU767060	Manor Way, Southbourne, Emsworth	15 Adult Female	Refugia Mat
		20/06/2013	SU767060	Manor Way, Southbourne, Emsworth	24 Adult Female	Refugia Mat
		20/06/2013	SU767060	Manor Way, Southbourne, Emsworth	28 Adult Female	Refugia Mat
		14/06/2013	SU767060	Manor Way, Southbourne, Emsworth	10 Adult Male	Refugia Mat
		14/06/2013	SU767060	Manor Way, Southbourne, Emsworth	11 Adult Female	Refugia Mat
		14/06/2013	SU767060	Manor Way, Southbourne, Emsworth	27 Juvenile	Refugia Mat
		10/12/2012	SU787052	Cot Lane, Chidham	1 Adult Female	Refugia
		10/12/2012	SU787052	Cot Lane, Chidham	1 Subadult	Refugia
		10/12/2012	SU787052	Cot Lane, Chidham	9 Juvenile	Refugia
		09/12/2012	SU787052	Cot Lane, Chidham	1 Adult Male	Refugia
		09/12/2012	SU787052	Cot Lane, Chidham	1 Juvenile	Refugia
		09/12/2012	SU787052	Cot Lane, Chidham	1 Subadult	Refugia
		09/12/2012	SU787052	Cot Lane, Chidham	5 Juvenile	Refugia
		12/10/2012	SU787052	Chidham, off Cot Lane	1 Adult; 1 sub-Adult; 18 Juvenile	Refugia
		10/10/2012	SU787052	Chidham, off Cot Lane	13 Juvenile; 2 Adult; 3 sub-Adult	Refugia
		10/10/2012	SU787052	Cot Lane, Chidham	1 Adult Female	Refugia
		10/10/2012	SU787052	Cot Lane, Chidham	1 Adult Unknown Gender	Refugia
		10/10/2012	SU787052	Cot Lane, Chidham	3 Subadult	Refugia
		10/10/2012	SU787052	Cot Lane, Chidham	5 Juvenile	Refugia
		10/10/2012	SU787052	Cot Lane, Chidham	8 Juvenile	Refugia
		09/10/2012	SU787052	Cot Lane, Chidham	1 Adult Male	Refugia
		09/10/2012	SU787052	Cot Lane, Chidham	1 Adult Unknown Gender	Refugia
		09/10/2012	SU787052	Cot Lane, Chidham	1 Juvenile	Refugia
		09/10/2012	SU787052	Cot Lane, Chidham	1 Subadult	Refugia
		09/10/2012	SU787052	Cot Lane, Chidham	2 Juvenile	Refugia
		09/10/2012	SU787052	Cot Lane, Chidham	2 Subadult	Refugia
		09/10/2012	SU787052	Cot Lane, Chidham	4 Juvenile	Refugia
		09/10/2012	SU787052	Cot Lane, Chidham	6 Juvenile	Refugia
		03/10/2012	SU787052	Chidham, off Cot Lane	1 Adult; 1 sub-Adult; 9 Juvenile	Refugia

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		01/10/2012	SU787052	Chidham, off Cot Lane	1 Adult; 16 Juvenile; 3 sub- Adult	Refugia
		19/09/2012	SU787052	Chidham, off Cot Lane	7 Adult; 8 Juvenile	Refugia
		19/09/2012	SU787052	Cot Lane, Chidham	1 Adult Female	Refugia
		19/09/2012	SU787052	Cot Lane, Chidham	1 Adult Male	Refugia
		19/09/2012	SU787052	Cot Lane, Chidham	1 Juvenile	Refugia
		19/09/2012	SU787052	Cot Lane, Chidham	3 Adult Female	Refugia
		19/09/2012	SU787052	Cot Lane, Chidham	3 Juvenile	Refugia
		12/09/2012	SU787052	Chidham, off Cot Lane	10 Juvenile; 2 Adult; 2 sub- Adult	Refugia
		10/09/2012	SU787052	Chidham, off Cot Lane	14 Juvenile; 3 Adult; 6 sub- Adult	Refugia
		10/03/2012	SU787052	Cot Lane, Chidham	1 Adult Male	Refugia
		10/03/2012	SU787052	Cot Lane, Chidham	1 Subadult	Refugia
		10/03/2012	SU787052	Cot Lane, Chidham	3 Juvenile	Refugia
		10/03/2012	SU787052	Cot Lane, Chidham	6 Juvenile	Refugia
		10/01/2012	SU787052	Cot Lane, Chidham	1 Adult Male	Refugia
		10/01/2012	SU787052	Cot Lane, Chidham	1 Juvenile	Refugia
		10/01/2012	SU787052	Cot Lane, Chidham	3 Sub- Adult Unknown Gender	Refugia
		10/01/2012	SU787052	Cot Lane, Chidham	6 Juvenile	Refugia
		10/01/2012	SU787052	Cot Lane, Chidham	8 Juvenile	Refugia
		03/10/2000	SU754059	Emsworth, Land between Lumley Road & Orchard Lane, Emsworth	1 Juvenile	Field Observation
		03/10/2000	SU754059	Emsworth, Land between Lumley Road & Orchard Lane, Emsworth	1 Present	Field Observation
		29/09/2000	SU754059	Emsworth, Land between Lumley Road & Orchard Lane, Emsworth	1 Present	Field Observation
		22/09/2000	SU754059	Emsworth, Land between Lumley Road & Orchard Lane, Emsworth	2 Present	Field Observation
		06/09/1999	SU768058	40 The Drive, Southbourne	Present	Field Observation
<i>Natrix helvetica</i>	Grass Snake	22/07/2019	SU754065	Lumley	1 Juvenile	Field Observation
		04/04/2014	SU770066	Breach Avenue, Southbourne	2 Present	Field Observation
		01/06/1999	SU7906	Abbots Ford, Scant road, West Chichester	1 Present	Field Observation
<i>Zootoca vivipara</i>	Common Lizard	08/07/2017	SU764044	Prinsted, Chichester Harbour	1 Adult	Field Observation
		24/04/2015	SU77140594	Southbourne Junior School	2 Present	Field Observation

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method
		03/07/2013	SU767060	Manor Way, Southbourne, Emsworth	1 Adult Female	Refugia Mat
		24/06/2013	SU767060	Manor Way, Southbourne, Emsworth	1 Adult Female	Refugia Mat
		20/06/2013	SU767060	Manor Way, Southbourne, Emsworth	1 Adult Female	Refugia Mat
		Aug-09	SU785053	Maybush Copse	1 Present	Field Observation
		17/08/1995	SU753045	Thorney Island	1 Present	Field Observation
		24/07/1993	SU7503	Thorney Island	2 Present	Field Observation
		24/07/1993	SU7603	Thorney Island	2 Present	Field Observation

### Table 3: Summary bat records

This table summarises records from 1980 onwards. See table 4 for detailed bat records.

Maximum abundance = highest total number of bats recorded at one time.

N.B. Where 'Present' appears in abundance column, no single numerical figure for abundance was provided with the record.

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Chiroptera</i>	Bat sp.	Hab Dir A2 NP, Hab Dir A4	Hab Reg Sch2, WCA Sch5 s9.4b/s9.4c/s9.5a, NERC S41	UK BAP Priority, RedList GB post2001 CR, RedList GB post2001 EN, RedList GB post2001 VU, RedList GB post2001 NT, RedList GB post2001 DD	11/11/1993	01/07/2017	23	9
<i>Eptesicus serotinus</i>	Serotine	Hab Dir A4	Hab Reg Sch2, WCA Sch5 s9.4b/s9.4c/s9.5a	RedList GB post2001 VU	19/08/2010	12/09/2019	16	12
<i>Myotis</i>	Myotis Bat	Hab Dir A2 NP, Hab Dir A4	Hab Reg Sch2, WCA Sch5 s9.4b/s9.4c/s9.5a, NERC S41	UK BAP Priority, RedList GB post2001 CR, RedList GB post2001 DD	22/09/2000	12/09/2019	53	281
<i>Myotis daubentonii</i>	Daubenton's Bat	Hab Dir A4	Hab Reg Sch2, WCA Sch5 s9.4b/s9.4c/s9.5a		29/07/1997	12/09/2019	8	20
<i>Nyctalus</i>	Nyctalus Bat species	Hab Dir A4	Hab Reg Sch2, WCA Sch5 s9.4b/s9.4c/s9.5a, NERC S41	UK BAP Priority, RedList GB post2001 NT	21/07/2015	07/08/2015	2	1
<i>Nyctalus leisleri</i>	Lesser Noctule	Hab Dir A4	Hab Reg Sch2, WCA Sch5 s9.4b/s9.4c/s9.5a	RedList GB post2001 NT	07/09/2012	07/09/2012	1	1
<i>Nyctalus noctula</i>	Noctule Bat	Hab Dir A4	Hab Reg Sch2, WCA Sch5 s9.4b/s9.4c/s9.5a, NERC S41	UK BAP Priority	10/05/2011	02/08/2019 - 06/08/2019	7	38
<i>Pipistrellus</i>	Pipistrelle sp.	Hab Dir A4	Hab Reg Sch2, WCA Sch5 s9.4b/s9.4c/s9.5a, NERC S41	UK BAP Priority, RedList GB post2001 NT	21/09/1999	21/06/2019	11	411
<i>Pipistrellus nathusii</i>	Nathusius's Pipistrelle	Hab Dir A4	Hab Reg Sch2, WCA Sch5 s9.4b/s9.4c/s9.5a	RedList GB post2001 NT	01/09/2018	02/08/2019 - 06/08/2019	4	13
<i>Pipistrellus pipistrellus</i>	Common Pipistrelle	Hab Dir A4	Hab Reg Sch2, NERC S41, WCA Sch5 s9.4b/s9.4c/s9.5a	UK BAP Priority	01/06/1989	12/09/2019	261	564

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Pipistrellus pygmaeus</i>	Soprano Pipstrelle (55 kHz)	Hab Dir A4	Hab Reg Sch2, WCA Sch5 s9.4b/s9.4c/s9.5a, NERC S41	UK BAP Priority	22/09/2000	12/09/2019	304	2897
<i>Plecotus</i>	Long-eared sp.	Hab Dir A4	Hab Reg Sch2, WCA Sch5 s9.4b/s9.4c/s9.5a, NERC S41	UK BAP Priority, RedList GB post2001 EN	25/06/2019 - 30/06/2019	02/08/2019 - 06/08/2019	3	13
<i>Plecotus auritus</i>	Brown Long-eared Bat	Hab Dir A4	Hab Reg Sch2, WCA Sch5 s9.4b/s9.4c/s9.5a, NERC S41	UK BAP Priority	01/09/2018	12/09/2019	4	1

## Table 4: Bat records

Records in this table are from 1980 onwards.

N.B. Where 'Present' appears in abundance column, no single numerical figure for abundance was provided with the record.

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
<i>Chiroptera</i>	Bat sp.	Jul-17	SU769065	Breach Avenue, Southbourne	1 Present	Field Observation			Every night for years one bat flies around at dusk.
		May-16	SU772066	The Orchard, Breach Lane, Southbourne	present	Field Observation			Haven't seen them much in the last couple of days, I guess because of the weather, but on nicer evenings they are certainly about a lot both at the front and back of our property.
		18/08/2015	SU754065	Lumley	Bat(s) in In flight	Aural bat detector			NBMP Waterway Survey - River Ems. Number of passes: 5
		21/08/2014	SU754065	Lumley	Bat(s) in In flight	Aural bat detector			NBMP Waterway Survey - River Ems. Number of passes: 4
		06/08/2014	SU771067	Fraser Gardens, Chichester	Present	Field Observation			A number of bats flying over property and over a large part of the adjacent orchard.
		05/08/2014	SU754065	Lumley	Bat(s) in In flight	Aural bat detector			NBMP Waterway Survey - River Ems. Number of passes: 10
		05/05/2014	SU769065	Wentworth Drive, Southbourne	1 Flying	Field Observation			Seen at dusk every day.
		19/04/2014	SU772066	The Orchard, Breach Avenue, Southbourne	Present	Field Observation			
		15/04/2014	SU771066	Fraser Gardens, Southbourne	2 Present	Field Observation			Back garden.
		30/03/2014	SU7699106556	Breach Avenue garden, Southbourne	1 Flying	Field Observation			Flying in garden
		08/03/2014	SU772066	The Orchard, Breach Avenue, Southbourne	Present	Field Observation			
		06/03/2014	SU771066	Fraser Gardens, Southbourne	1 Present	Field Observation			Back garden.
		05/03/2014	SU771066	Fraser Gardens, Southbourne	1 Present	Field Observation			Back garden.
05/12/2013	SU772066	Orchard end of Breach Avenue, Southbourne	Present	Field Observation					

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		11/08/2013	SU754065	Lumley	Bat(s) in In flight	Aural bat detector			NBMP Waterway Survey - River Ems. Number of passes: 2
		29/08/2012	SU754065	Lumley, River Ems	3 Bat(s)	Waterway transect			
		06/08/2012	SU754065	Lumley, River Ems	9 Bat(s)	Waterway transect			
		26/08/2011	SU754065	Lumley, River Ems	3 Bat(s)	Waterway transect			
		07/08/2011	SU754065	Lumley, River Ems	1 Bat(s)	Waterway transect			
		30/08/2010	SU754065	Lumley, River Ems	Bats Present	Waterway transect			
		16/08/2010	SU754065	Lumley, River Ems	Bats Present	Waterway transect			
		11/10/2006	SU771050	Land to east of Seafields, Printhead Lane, Printhead, Chichester		Building Inspection	Unspecified Roost		
		11/11/1993	SU781054	3 The Waterplat, Chichester		Building Inspection	Unspecified Roost		Bats trapped in roof when tiles replaced. Some found way into living areas.
<i>Eptesicus serotinus</i>	Serotine	12/09/2019	SU7563406703	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		02/08/2019 - 06/08/2019	SU7515005954	River Ems near Hermitage Bridge (Location: 1)	12 Pass(es)	Bat Survey			
		12/07/2019 - 16/07/2019	SU7515005954	River Ems near Hermitage Bridge (Location: 1)	3 Pass(es)	Bat Survey			
		25/06/2019 - 30/06/2019	SU7515005954	River Ems near Hermitage Bridge (Location: 1)	10 Pass(es)	Bat Survey			
		27/06/2019	SU7858806903	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7858806904	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		27/06/2019	SU7858806905	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7859106902	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7859106903	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7859106904	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7859206903	Hambrook north - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7859406904	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7859606907	Hambrook north - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7859706902	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)



Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		01/09/2018	SU78550524	Maybush Copse	1 Present	Bat Detector			Ref wav0080_2018_09_02__01_15_30 Full Spectrum recording with Peersonic recorder. Analysis software Kaleidoscope. _x000D_ Calls/sec 6 Peak Energy 31 Khz, start 62Khz, End 23Khz, Duration 7ms, FMqCF call with Harmonic_x000D_ The call structure and pe ...
		19/08/2010	SU752064	Lumley, Emsworth		Aural bat detector			Time expansion recording. 1 pass only.
<i>Myotis</i>	Myotis Bat	12/09/2019	SU7559806754	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on A27 bridge. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7561406721	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7561506720	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564106700	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565506627	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565506628	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7569106458	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7569206450	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7569406452	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7572306366	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Multiple species. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7573906325	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7574006320	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7574206318	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Multiple species. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7574306169	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7574406165	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7574506176	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7574506313	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7574606308	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		02/08/2019 - 06/08/2019	SU7515005954	River Ems near Hermitage Bridge (Location: 1)	64 Pass(es)	Bat Survey			
		20/07/2019	SU7550306646	Westbourne - Westbourne Parish & Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		20/07/2019	SU7554706689	Westbourne - Westbourne Parish & Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/07/2019 - 16/07/2019	SU7515005954	River Ems near Hermitage Bridge (Location: 1)	27 Pass(es)	Bat Survey			
		25/06/2019 - 30/06/2019	SU7515005954	River Ems near Hermitage Bridge (Location: 1)	281 Pass(es)	Bat Survey			
		27/06/2019	SU7828407025	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7828407027	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7828507022	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7828507025	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7828707018	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		27/06/2019	SU7828907019	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7828907022	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7828907024	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7829007023	Hambrook north - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7829007024	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7829107023	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7796605661	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7819606181	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7819806182	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7823506172	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		21/06/2019	SU7831606247	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7832106264	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7833706278	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7833806277	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7834206281	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7839406317	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		10/08/2017	SU755066	NBMP site 110101 Spot 5 River Ems, Lumley	1 Present	Bat Detector			Full spectrum recording. During transect survey.
		08/09/2014	SU759054	Thorney Road, Emsworth	1	Aural bat detector		Unknown	Heterodyne detector.
		01/10/2012	SU787052	Cot Lane, Chidham	1 Bat(s)	Aural bat detector			Central grid reference. Heard at 20:19 along the western boundary of the site. Considered most likely to be a natterer's bat.
		06/08/2012	SU751059	River Ems, Hermitage, Emsworth	1 Bat(s)	Aural bat detector			NBMP Waterways survey 110101 spot 10
		06/08/2012	SU752060	River Ems, Hermitage, Emsworth	1 Bat(s)	Aural bat detector			NBMP Waterways survey 110101 spot 9
		26/08/2011	SU752064	River Ems, Emsworth, NBMP route point 7	1 Bat(s)	Aural bat detector			Bridge and weir on small river beside large gardens. NBMP Waterway survey route.

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		22/06/2010	SU752064	Brook Meadow, Emsworth		Aural bat detector			Time expansion recording. Probably Daubenton's. 9 passes.
		22/07/2001	SU754059	Orchard Lane, Emsworth	1 Present	Aural bat detector			
		22/09/2000	SU754059	Land between Lumley Road & Orchard Lane, Emsworth	1 In flight	Unspecified			Observed flying into site near Orchard Lane. Field with scrub and scrubby woodland developing along its edges.
<i>Myotis daubentonii</i>	Daubenton's Bat	12/09/2019	SU7567106544	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		18/08/2015	SU754065	Lumley	Bat(s) in In flight	Aural bat detector			NBMP Waterway Survey - River Ems. Number of passes: 2
		09/08/2015	SU754065	Lumley	Bat(s) in In flight	Aural bat detector			NBMP Waterway Survey - River Ems. Number of passes: 9
		29/08/2012	SU754065	Lumley, River Ems	20 Bat(s)	Waterway transect			
		07/08/2011	SU754065	Lumley, River Ems	1 Bat(s)	Waterway transect			
		16/08/2010	SU754065	Lumley, River Ems	Bats Present	Waterway transect			
		11/08/1997	SU754065	Lumley, River Ems	Bats Present	Waterway transect			
		29/07/1997	SU754065	Lumley, River Ems	Bats Present	Waterway transect			
<i>Nyctalus</i>	Nyctalus Bat species	07/08/2015	SU78540521	Maybush Copse	Present	Aural bat detector			Baton detector recording. Peak Freq. 27 khz, but not heavily syncopated, mostly fairly even call with some alternating characteristics, rate of 3.8 /sec. Nyctalus sp - Leisler's Bat seems most likely.
		21/07/2015	SU78570521	Maybush Copse, Chidham	Present	Field Observation			Nyctalus, probably Leisler's. Not Serotine because of frequency and harmonic structure. Too high for noctule. To confirm would need some flight pattern or $\hat{\text{O}}\check{\text{C}}\grave{\text{j}}\text{jizz}\hat{\text{O}}\check{\text{C}}\hat{\text{O}}$ included.

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
<i>Nyctalus leisleri</i>	Lesser Noctule	07/09/2012	SU787052	Cot Lane, Chidham	1 Bat(s)	Aural bat detector			Central grid reference. Recorded at 05:20. Brief pass. Commuting/foraging. No bats emerged from the trees which were the subject of this survey.
<i>Nyctalus noctula</i>	Noctule Bat	02/08/2019 - 06/08/2019	SU7515005954	River Ems near Hermitage Bridge (Location: 1)	38 Pass(es)	Bat Survey			
		12/07/2019 - 16/07/2019	SU7515005954	River Ems near Hermitage Bridge (Location: 1)	12 Pass(es)	Bat Survey			
		25/06/2019 - 30/06/2019	SU7515005954	River Ems near Hermitage Bridge (Location: 1)	8 Pass(es)	Bat Survey			
		08/06/2016	SU752057	Chequers Gardens, Emsworth, by Slipper millpond	1	Aural bat detector		Unknown	Time expansion recording. Foraging.
		28/08/2014	SU759054	Thorney Road, Emsworth	1	Aural bat detector		Unknown	Heterodyne detector.
		26/07/2012	SU787052	Cot Lane, Chidham	1 Bat(s)	Aural bat detector			Central grid reference. Recorded at 21:58. Foraging/commuting.
		10/05/2011	SU785058	West Sussex (VC13), Marshalls Yard, Hambrook	Present	Aural bat detector			3 passes recorded during activity survey. No bats recorded emerging from or returning-two large disused industrial, pitched corrugated asbestos roofing; and a third pre-fab building of metal facade with metal boarding and flat bitumen roof.
<i>Pipistrellus</i>	Pipstrelle sp.	21/06/2019	SU7786905570	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7809805822	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		20/06/2013	SU767060	Manor Way, Southbourne, Emsworth, North west of garage block	1 Present	Aural bat detector			Activity Survey - Petterson 240x time expansion detector - Sonobat, not echolocating.
		18/06/2009	SU775052	Nutbourne	196 Bat(s)	Roost Exit Count	Unspecified Roost	House	Survey duration: 35 minutes.

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		08/06/2009	SU775052	Nutbourne	187 Bat(s)	Roost Exit Count	Unspecified Roost	House	Survey duration: 40 minutes.
		22/06/2006	SU775052	Nutbourne	307 Bat(s)	Roost Exit Count	Unspecified Roost		
		12/06/2006	SU775052	Nutbourne	289 Bat(s)	Roost Exit Count	Unspecified Roost		
		25/06/2004	SU775052	Nutbourne	411 Bat(s)	Roost Exit Count	Unspecified Roost		
		01/06/2003	SU752061	Cambercroft	25 Present	Building Inspection	Unspecified Roost		
		22/07/2001	SU754059	Orchard Lane, Emsworth	1 Present	Aural bat detector			
		21/09/1999	SU754064	South Hampshire, 1 Flint Cottage, Mill Lane, Emswort, Hants		Building Inspection	Unspecified Roost		
<i>Pipistrellus nathusii</i>	Nathusius's Pipistrelle	02/08/2019 - 06/08/2019	SU7515005954	River Ems near Hermitage Bridge (Location: 1)	9 Pass(es)	Bat Survey			
		12/07/2019 - 16/07/2019	SU7515005954	River Ems near Hermitage Bridge (Location: 1)	7 Pass(es)	Bat Survey			
		25/06/2019 - 30/06/2019	SU7515005954	River Ems near Hermitage Bridge (Location: 1)	13 Pass(es)	Bat Survey			
		01/09/2018	SU78550524	Maybush Copse	1 Present	Bat Detector			Ref wav0079_2018_09_02_00_14_04 Full Spectrum recording with Peersonic recorder. Analysis software Kaleidoscope. _x000D_ Calls/sec 4.5 Peak Energy 39Khz, start 46Khz, End 37Khz, Duration 7.5ms, FMqCF hockey stick call with Harmonic_x000D_ The call ...
<i>Pipistrellus pipistrellus</i>	Common Pipistrelle	12/09/2019	SU7559706752	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Crossing A27. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7563606699	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)



Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7564206699	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564306697	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564306698	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			with social call. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564406698	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564506691	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564506697	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564506698	Tuppenny Lane - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564606667	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564606680	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564606682	Tuppenny Lane - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7564606698	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564706666	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564706681	Tuppenny Lane - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564706682	Tuppenny Lane - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564706686	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564806682	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564906675	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565206623	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565206624	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565306625	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7565306629	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565306630	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565306633	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565406614	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565506634	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565506650	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565606625	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565706621	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			with social call. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565806594	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565906613	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			with social call. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7565906619	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566106597	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566206566	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566306591	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566306599	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566606563	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566706555	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566706559	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566906550	Tuppenny Lane - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7567006548	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7567006554	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7567106550	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			with social call. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7567406538	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7567406539	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7567606528	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7567706504	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7567806501	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7567806510	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7567906501	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7568006496	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7568106492	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7568306489	Tuppenny Lane - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			with social calls. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7568406469	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7568406479	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7568506469	Tuppenny Lane - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7568506475	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7568706471	Tuppenny Lane - Southbourne Parish & Westbourne Parish	3 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7568706474	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7568806471	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7568806490	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7568906478	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7569106448	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			with social call. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7569106449	Tuppenny Lane - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7569206445	Tuppenny Lane - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			with social call. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7569206448	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			with social call. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7569306443	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7569306449	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7569406451	Tuppenny Lane - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7570106429	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7570306421	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7570506410	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7570506413	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7570906398	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7571606387	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7571906384	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7573106341	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7573306344	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7574706188	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			with social calls. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7574906155	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7575206142	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)



Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7575306149	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7575406151	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7575506136	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7575506244	Tuppenny Lane - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7575506245	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7575606242	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7575606245	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7575606286	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7575706245	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7575806250	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7575806252	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7575906121	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7575906254	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7575906264	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7576006098	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7576006116	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7576006271	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7576106104	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7576306099	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7576406082	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7576406091	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7576706080	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7576806068	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7576906078	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7577006076	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7577306054	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7578106033	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7580106032	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7581006033	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7581506033	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7582506034	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		02/08/2019 - 06/08/2019	SU7515005954	River Ems near Hermitage Bridge (Location: 1)	207 Pass(es)	Bat Survey			
		20/07/2019	SU7550106641	Westbourne - Westbourne Parish & Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		20/07/2019	SU7553306662	Westbourne - Westbourne Parish & Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		20/07/2019	SU7554306667	Westbourne - Westbourne Parish & Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		20/07/2019	SU7555806692	Westbourne - Westbourne Parish & Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		20/07/2019	SU7558206698	Westbourne - Westbourne Parish & Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/07/2019 - 16/07/2019	SU7515005954	River Ems near Hermitage Bridge (Location: 1)	291 Pass(es)	Bat Survey			
		25/06/2019 - 30/06/2019	SU7515005954	River Ems near Hermitage Bridge (Location: 1)	564 Pass(es)	Bat Survey			
		27/06/2019	SU7822307038	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7824907025	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		27/06/2019	SU7826007023	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7826007025	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7826207021	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7826207023	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7826307022	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7826507024	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7827907033	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7828107023	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7828207018	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7828207027	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		27/06/2019	SU7828407025	Hambrook north - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7828407028	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7828507024	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7828607024	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7828707024	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7828707025	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7828707026	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7828807019	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7828807024	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7828807025	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		27/06/2019	SU7828907021	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7829007024	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7832207024	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7832807027	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7833507024	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7833707023	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7834107023	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7834807024	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7835507020	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7835507025	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		27/06/2019	SU7835707022	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7835707025	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7835807008	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7836007022	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7836407022	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7836807025	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7836907024	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7836907028	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7837007025	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7837207027	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)



Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		27/06/2019	SU7837707025	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7838607011	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7839007027	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7839407014	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7840807039	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7848106978	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7856506921	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7856706921	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7857106920	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7857206921	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		27/06/2019	SU7857306921	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7857406921	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7857506918	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7857606916	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7857606917	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7858806912	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7859306914	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7859406903	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7860106906	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7861706895	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		27/06/2019	SU7870206842	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7870306844	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7786605569	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7800805716	Hambrook south - Southbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7808305811	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7809305818	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7809605821	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7809705823	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7810105826	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7810105996	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		21/06/2019	SU7811105833	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7811206006	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7811305833	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7812505855	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7812906006	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7813205864	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7813706005	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7814405877	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7815805898	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7816005915	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		21/06/2019	SU7817905995	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7818406067	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7818506083	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7818906119	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7819006094	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7819006117	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7819106119	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7819106183	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7819406170	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7824806202	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		21/06/2019	SU7827206219	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7828106227	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7832306252	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7834506280	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7835206285	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7836606303	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7836906303	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7837206303	Hambrook south - Southbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7837506304	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7837706313	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		21/06/2019	SU7838006316	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7838206309	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7839306327	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7839906334	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7842306347	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7844606366	Hambrook south - Southbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7845806373	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7847306384	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7848506397	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7850706404	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		21/06/2019	SU7851506402	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7853006407	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7855706424	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7856006433	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7857006424	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7857506443	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		01/09/2018	SU78550524	Maybush Copse	1 Present	Bat Detector			Ref wav0000_2018_09_01_20_13_28 Full Spectrum recording with Peersonic recorder. Analysis software Kaleidoscope. Calls/sec 12 Peak Energy 48 Khz, start 88Khz, End 44Khz, Duration 5ms, FMqCF call (hockey stick) The call structure and peak energy freq ...
		23/08/2017	SU751061	NBMP site 110101 Spot 8 River Ems, Lumley	1 Present	Bat Detector			Full spectrum recording. During transect survey.
		23/08/2017	SU752060	NBMP site 110101 Spot 9 River Ems, Lumley	1 Present	Bat Detector			Full spectrum recording.
		23/08/2017	SU752064	NBMP site 110101 Spot 7 River Ems, Lumley	1 Present	Bat Detector			Full spectrum recording. During transect survey.



Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		07/08/2015	SU78540521	Maybush Copse	Present	Aural bat detector			Baton detector recording.wav file available. Peak Freq. 46.4khz, call rate 10 /sec. Common Pipistrelle.
		08/09/2014	SU759054	Thorney Road, Emsworth	1	Aural bat detector		Unknown	Heterodyne detector.
		28/08/2014	SU759054	Thorney Road, Emsworth	1	Aural bat detector		Unknown	Heterodyne detector.
		20/06/2013	SU767060	Manor Way, Southbourne, Emsworth, North west of garage block	4 Present	Aural bat detector			Activity Survey - Pettersson 240x time expansion detector - Sonobat, all believed to be foraging.
		20/06/2013	SU767060	Manor Way, Southbourne, Emsworth, South east of garge block	3 Present	Aural bat detector			Activity Survey - Pettersson 240x time expansion detector - Sonobat, 2 commuting and 1 foraging: recorded between 21:56 and 22:03 (within 45 minutes of sunset).
		20/06/2013	SU768060	Manor Way, Southbourne	1 Bat(s)	Aural bat detector			Status: Feeding
		01/10/2012	SU787052	Cot Lane, Chidham	1 Bat(s)	Aural bat detector			Central grid reference. Heard at 20:32 along the western boundary of the site.
		06/09/2012	SU787052	Cot Lane, Chidham	3 Pass(es)	Aural bat detector			Central grid reference. Heard but not seen. Commuting/foraging. No bats emerged from the trees which were the subject of this survey.
		10/08/2012	SU787052	Cot Lane, Chidham	1 Bat(s)	Aural bat detector			Central grid reference.
		06/08/2012	SU751061	River Ems, Hermitage, Emsworth	1 Bat(s)	Aural bat detector			NBMP Waterways survey 110101 spot 8
		26/07/2012	SU787052	Cot Lane, Chidham	1 Bat(s)	Aural bat detector			Central grid reference. Recorded at 21:51. Heard but not seen at southern extent of the site. Foraging/commuting.
		25/07/2012	SU787052	Cot Lane, Chidham	1 Bat(s)	Aural bat detector			Central grid reference. Record from an automated bat detector (SM2) placed along the western boundary of the site within an apple tree. 24 passes.

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		26/08/2011	SU751059	River Ems, Emsworth, NBMP route point 10	1 Bat(s)	Aural bat detector			Path beside pond and garden. NBMP Waterway survey route 110101.
		26/08/2011	SU752064	River Ems, Emsworth, NBMP route point 7	1 Bat(s)	Aural bat detector			Bridge and weir on small river beside large gardens. NBMP Waterway survey route.
		17/05/2011	SU785058	West Sussex (VC13), Marshalls Yard, Hambrook	Present	Aural bat detector			2 foragings.No bats recorded emerging from any of the buildings surveyed -2 large disused industrial buildings,corrugated asbestos roofing; and a third pre-fab building of metal facade with metal boarding and flat bitumen roof.
		22/06/2010	SU751062	Brook Meadow, Emsworth		Aural bat detector			Time expansion recording. 1 pass only.
		23/09/2000	SU754059	Land between Lumley Road & Orchard Lane, Emsworth	3 In flight	Unspecified			Observed flying W along S boundary of site. Field with scrub and scrubby woodland developing along its edges.
		01/06/1989	SU787064	Foxdale, Cheeseman Lane, Hambrook, Funtington	51 Present	Building Inspection	Unspecified Roost		At site for 4 years. Growing colony with 2 young earlier in 1989.
<i>Pipistrellus pygmaeus</i>	Soprano Pipstrelle (55 kHz)	12/09/2019	SU7559806752	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Crossing A27. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7559906754	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on A27 bridge. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7562906709	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564106700	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7564206699	Tuppenny Lane - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564506698	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564606665	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564606694	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564706695	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564806662	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564906651	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564906675	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564906676	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7564906678	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7564906679	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565006672	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565106660	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565106668	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565206642	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565206646	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565206661	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565306628	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565306638	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565306659	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7565406639	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565406657	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565606625	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565706621	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565806594	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7565906601	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566006601	Tuppenny Lane - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566006603	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566006614	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566106597	Tuppenny Lane - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			with soprano social calls. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7566206564	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566206593	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566206595	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566206613	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566306599	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566306601	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566306612	Tuppenny Lane - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566406567	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566406572	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566406574	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7566406582	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566406599	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			with social calls. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566506566	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566506567	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566506570	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566506579	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566606571	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7566906554	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7567006552	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7567006553	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7567406521	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7567406539	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7567506538	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7567706527	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7567806510	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7567806525	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7568106522	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			with social calls. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7568206517	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			with social calls. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7568306513	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			with social call. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7568506473	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)



Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7568506475	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7568506504	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7568506507	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7568606474	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7568706577	Tuppenny Lane - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7568806490	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7568906478	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7570206423	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7571106385	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7571506390	Tuppenny Lane - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7572206370	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7572306366	Tuppenny Lane - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7572606359	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7573306343	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7573306344	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			With social calls. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7574906197	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7575106202	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7575206213	Tuppenny Lane - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7575606242	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/09/2019	SU7576106104	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/09/2019	SU7591606011	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		02/08/2019 - 06/08/2019	SU7515005954	River Ems near Hermitage Bridge (Location: 1)	627 Pass(es)	Bat Survey			
		20/07/2019	SU7549906641	Westbourne - Westbourne Parish & Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		20/07/2019	SU7550006641	Westbourne - Westbourne Parish & Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		20/07/2019	SU7550106648	Westbourne - Westbourne Parish & Southbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		20/07/2019	SU7555806687	Westbourne - Westbourne Parish & Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		20/07/2019	SU7556706689	Westbourne - Westbourne Parish & Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		20/07/2019	SU7560406749	Westbourne - Westbourne Parish & Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		12/07/2019 - 16/07/2019	SU7515005954	River Ems near Hermitage Bridge (Location: 1)	1213 Pass(es)	Bat Survey			
		25/06/2019 - 30/06/2019	SU7515005954	River Ems near Hermitage Bridge (Location: 1)	2897 Pass(es)	Bat Survey			
		27/06/2019	SU7828207018	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		27/06/2019	SU7828707023	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7828907026	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7828907027	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7829007022	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7829107022	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7833907018	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7834107017	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7834307013	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7834407013	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7834807016	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		27/06/2019	SU7834907015	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7835407015	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7835507021	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7835507023	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7836607017	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7836607020	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7836907018	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7836907022	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7837107025	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7839007017	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		27/06/2019	SU7847306986	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7847606984	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7848106974	Hambrook north - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7848106979	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7848206978	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7848306973	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7848406970	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7848406973	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7848506968	Hambrook north - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7848506972	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		27/06/2019	SU7848506975	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7848606970	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7848706968	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7849006966	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7849106967	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7849206971	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7849306967	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7849306970	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7849406970	Hambrook north - Southbourne Parish & Westbourne Parish	3 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7849506969	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		27/06/2019	SU7850306964	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7850706964	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7850806964	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7851106960	Hambrook north - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7851706957	Hambrook north - Southbourne Parish & Westbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7858806905	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7859006910	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7859106903	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7859106910	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7859606907	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)



Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		27/06/2019	SU7861606893	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7863506885	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7793805644	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7793905644	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7795005653	Hambrook south - Southbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7798305888	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7798305889	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7798405884	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7798405885	Hambrook south - Southbourne Parish	4 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7798405887	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		21/06/2019	SU7798405888	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7798405890	Hambrook south - Southbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7798405891	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7798705680	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7798705888	Hambrook south - Southbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7799305871	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7800805717	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7802505906	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7802705905	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7803005900	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		21/06/2019	SU7803105900	Hambrook south - Southbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7803905907	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7804005907	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7804305929	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7804305956	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7804405955	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7804505953	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7804505954	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7804605930	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7804605954	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		21/06/2019	SU7804605960	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Multiple bats. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7804705965	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7804805935	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7804805948	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7804805969	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Multiple bats. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7804805987	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Multiple bats. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7804905941	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7804905974	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Multiple bats. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7805505994	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Multiple bats. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7805705783	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		21/06/2019	SU7805705998	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Multiple bats. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7805805996	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Multiple bats. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7805805999	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Multiple bats. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7805905995	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7805905998	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Multiple bats. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7806105783	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7806105993	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Multiple bats. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7806105995	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Multiple bats. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7806105996	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Multiple bats. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7806205993	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Multiple bats. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		21/06/2019	SU7806205995	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Multiple bats. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7806405995	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Multiple bats. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7807006016	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7807906021	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Multiple bats. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7808605813	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7808705814	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7808705815	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7808805812	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7808806022	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Multiple bats. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7808905820	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		21/06/2019	SU7809105819	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7809205817	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7809206007	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Multiple bats. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7809505820	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7809505821	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7809605820	Hambrook south - Southbourne Parish	3 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7809605821	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7809605822	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7809605997	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Multiple bats. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7809705819	Hambrook south - Southbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		21/06/2019	SU7809705820	Hambrook south - Southbourne Parish	3 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7809705821	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7809705822	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7809705827	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7809805819	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7809805821	Hambrook south - Southbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7809805996	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Multiple bats. Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7809905821	Hambrook south - Southbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7809905822	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7809905824	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)



Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		21/06/2019	SU7810005820	Hambrook south - Southbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7810005822	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7810005824	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7810105815	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7810105819	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7810105820	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7810105822	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7810105825	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7810105996	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7810105997	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		21/06/2019	SU7810705831	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7810706000	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7811205835	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7811206006	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7811706007	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7812705854	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7814506006	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7815006007	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7815905907	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7816206011	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		21/06/2019	SU7817505947	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7817905996	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7818005995	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7818005996	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7818406058	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7818606050	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7818706057	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7818706067	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7818706082	Hambrook south - Southbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7818806062	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		21/06/2019	SU7818806077	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7818806091	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7818906094	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7818906109	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7818906116	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7818906127	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7819006094	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7819006095	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7819006096	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7819106119	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		21/06/2019	SU7819206157	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7819306126	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7819306180	Hambrook south - Southbourne Parish	2 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7823206182	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7827506214	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7828606231	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7828806236	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7831806248	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7833606275	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7833806271	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		21/06/2019	SU7835006290	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7838406317	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7841806347	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7843706358	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7849906392	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7850106405	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7851206403	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7851506401	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7855706425	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		01/09/2018	SU78550524	Maybush Copse	1 Present	Bat Detector			Ref wav0018_2018_09_01_20_19_50 Full Spectrum recording with Peersonic recorder. Analysis software Kaleidoscope. Calls/sec 15 Peak Energy 55 Khz, start 92Khz, End 52Khz, Duration 4.5ms, FMqCF call (hockey stick) The call structure and peak energy fr ...
		23/08/2017	SU751061	NBMP site 110101 Spot 8 River Ems, Lumley	1 Present	Bat Detector			Full spectrum recording. During transect survey.
		23/08/2017	SU752060	NBMP site 110101 Spot 9 River Ems, Lumley	1 Present	Bat Detector			Full spectrum recording. During transect survey.
		08/06/2016	SU752057	Chequers Gardens, Emsworth, by Slipper millpond	1	Aural bat detector		Unknown	Time expansion recording.
		07/08/2015	SU78540521	Maybush Copse	Present	Aural bat detector			Baton frequency division detector recording. wav file available. Peak Freq. 54.7 khz, call rate 11 /sec. Soprano Pipistrelle.
		08/09/2014	SU759054	Thorney Road, Emsworth	1	Aural bat detector		Unknown	Heterodyne detector.
		25/05/2013	SU7861905181	Maybush Copse, Cot lane, Chidham	1 Adult	Aural bat detector			
		01/10/2012	SU787052	Cot Lane, Chidham	2 Pass(es)	Aural bat detector			Central grid reference. 1 bat heard briefly along the eastern boundary of the site adjacent to the stables and 1 bat heard but not seen near to the ditch on site.
		17/09/2012	SU787052	Cot Lane, Chidham	3 Pass(es)	Aural bat detector			Central grid reference. Heard but not seen. Commuting/foraging. No bats emerged from the trees which were the subject of this survey. Also heard but not seen in the northern half of the site. Sounded quite distant.

Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		07/09/2012	SU787052	Cot Lane, Chidham	1 Bat(s)	Aural bat detector			Central grid reference. Recorded at 05:20. Sounded quite distant. Commuting/foraging. No bats emerged from the trees which were the subject of this survey.
		06/09/2012	SU787052	Cot Lane, Chidham	6 Pass(es)	Aural bat detector			Central grid reference. Heard but not seen. Commuting/foraging. No bats emerged from the trees which were the subject of this survey.
		09/08/2012	SU787052	Cot Lane, Chidham	1 Bat(s)	Aural bat detector			Central grid reference. Recorded at 21:59 at the southern extent of the site above the orchard trees. Heard but not seen.
		06/08/2012	SU751059	River Ems, Hermitage, Emsworth	1 Bat(s)	Aural bat detector			NBMP Waterways survey 110101 spot 10
		06/08/2012	SU751061	River Ems, Hermitage, Emsworth	1 Bat(s)	Aural bat detector			NBMP Waterways survey 110101 spot 8
		26/07/2012	SU787052	Cot Lane, Chidham	1 Bat(s)	Aural bat detector			Central grid reference. Recorded at 22:13. Foraging/commuting.
		25/07/2012	SU787052	Cot Lane, Chidham	1 Bat(s)	Aural bat detector			Central grid reference. Record from an automated bat detector (SM2) placed along the western boundary of the site within an apple tree. 1 pass only.
		26/08/2011	SU751060	River Ems, Emsworth, NBMP route point 9	1 Bat(s)	Aural bat detector			Bridge over small river, near copse, meadow and pond. NBMP Waterway survey route.
		07/08/2011	SU752064	River Ems, Emsworth, NBMP route point 7	2 Bat(s)	Aural bat detector			Bridge and weir on small river beside large gardens. NBMP Waterway survey route.
		22/07/2001	SU754059	Orchard Lane, Emsworth	1 Present	Aural bat detector			
		22/09/2000	SU754059	Land between Lumley Road & Orchard Lane, Emsworth	1 In flight	Unspecified			Observed flying into site near Orchard Lane. Field with scrub and scrubby woodland developing along its edges.
<i>Plecotus</i>	Long-eared sp.	02/08/2019 - 06/08/2019	SU7515005954	River Ems near Hermitage Bridge (Location: 1)	13 Pass(es)	Bat Survey			



Taxon name	Common name	Date	Grid reference	Location name	Abundance	Sampling method	Roost type	Roost location	Comments
		12/07/2019 - 16/07/2019	SU7515005954	River Ems near Hermitage Bridge (Location: 1)	9 Pass(es)	Bat Survey			
		25/06/2019 - 30/06/2019	SU7515005954	River Ems near Hermitage Bridge (Location: 1)	7 Pass(es)	Bat Survey			
<i>Plecotus auritus</i>	Brown Long-eared Bat	12/09/2019	SU7559806753	Tuppenny Lane - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			BLE recorded on A27 bridge . Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		27/06/2019	SU7828607024	Hambrook north - Southbourne Parish & Westbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		21/06/2019	SU7801205721	Hambrook south - Southbourne Parish	1 Pass(es)	Bat Survey			Recorded on Batlogger M. Analysed using Bat Explorer software version 2.1.4.0 (2.1.7017.34360)
		01/09/2018	SU78550524	Maybush Copse, Chidham	1 Present	Bat Detector			ref: wav0077_2018_09_01_21_55_24 Full Spectrum recording with Peersonic recorder. Analysis software Kaleidoscope. _x000D_ Calls/sec 7, Peak Energy 31.7Khz, start 45Khz, End 20Khz, Duration 4.3ms, Harmonics overlap_x000D_ The call structure and low ...

## Table 5: Summary bird records

### Confidential records

Records of birds classed as confidential by the Sussex Ornithological Society (SOS) are not included in our reports. These records relate to a range of different species. No such records been flagged up in this search area. The SOS should be contacted directly if potentially damaging operations are to occur.

Email: [conservation@sos.org.uk](mailto:conservation@sos.org.uk)

### Wetland Bird Survey (WeBS)

WeBS records are not included in our reports and must be requested directly from BTO: <https://www.bto.org/volunteer-surveys/webs/data>. The data search area intersects with the following WeBS count areas: Chichester Harbour.

### Records in the following table are from 1980 onwards.

This table provides a summary of all bird records. Table 6 provides records of Sussex Notable Birds (where applicable).

Maximum abundance = highest total number of birds recorded at one time.

N.B. Where 'Present' appears in abundance column, no single numerical figure for abundance was provided with the record.

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Phylloscopus collybita subsp. abietinus/tristis</i>	Abietinus/tristis Chiffchaff				16/01/2001	02/03/2001	8	2
<i>Anatidae</i>	Ducks, geese, swans				22/07/2012	22/07/2012	1	Present
<i>Branta canadensis</i>	Canada Goose				14/05/1983	13/12/2019	407	340
<i>Branta canadensis subsp. parvipes</i>	Lesser Canada Goose				15/08/2004	23/09/2007	5	1
<i>Branta leucopsis</i>	Barnacle Goose	Birds Dir A1		Bird Amber	01/04/1989 - 01/04/1989	11/02/2016	61	43
<i>Branta bernicla</i>	Brent Goose			Bird Amber	23/10/1991 - 23/10/1991	13/12/2019	375	3000
<i>Branta bernicla subsp. hrota</i>	Light-bellied Brent Goose			Bird Amber	26/11/1989	22/11/2018	10	7
<i>Branta bernicla subsp. nigricans</i>	Black Brant			Bird Amber	13/01/1991 - 13/01/1991	20/01/2011	9	1
<i>Branta ruficollis</i>	Red-breasted Goose	Birds Dir A1			12/02/2008 - 13/02/2008	03/03/2013	17	1
<i>Bucephala clangula</i>	Goldeneye			Bird Amber	21/01/1985	13/12/2019	155	30
<i>Chen caerulescens</i>	Snow Goose				01/04/1989 - 01/04/1989	14/02/2007	11	1
<i>Cygnus olor</i>	Mute Swan			Bird Amber, Notable Bird	20/05/1983	13/12/2019	443	80

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Cygnus columbianus</i>	Bewick's Swan	Birds Dir A1	WCA Sch1 Pt1, NERC S41	Bird Amber	1989	1989	1	1
<i>Cygnus columbianus subsp. bewickii</i>	Bewick's Swan	Birds Dir A1	WCA Sch1 Pt1, NERC S41, NERC S41	UK BAP Priority, Bird Amber	16/01/1987	07/03/1993	6	64
<i>Cygnus cygnus</i>	Whooper Swan	Birds Dir A1	WCA Sch1 Pt1	Bird Amber	19/01/1985	03/01/1987	2	3
<i>Cygnus atratus</i>	Black Swan				01/04/1990	19/10/2018	29	5
<i>Mergus serrator</i>	Red-breasted Merganser				18/11/1990	24/12/2018	206	115
<i>Mergus merganser</i>	Goosander				18/11/1998	13/12/2019	39	4
<i>Somateria mollissima</i>	Eider			Bird Amber	21/06/1999	23/01/2011	7	4
<i>Anser fabalis subsp. rossicus</i>	Tundra Bean Goose			Bird Amber	26/02/2003 - 02/03/2003	02/03/2003	4	5
<i>Anser brachyrhynchus</i>	Pink-footed Goose			Bird Amber	18/09/2010	02/01/2011 - 17/01/2011	5	2
<i>Anser albifrons</i>	White-fronted Goose		NERC S41	UK BAP Priority, Bird Red	22/11/1985	25/11/2015	32	30
<i>Anser anser</i>	Greylag Goose			Bird Amber	22/12/1989 - 24/12/1989	27/09/2015	67	9
<i>Anser canagicus</i>	Emperor Goose				10/10/1988	01/01/2001 - 21/01/2001	19	1
<i>Anser indicus</i>	Bar-headed Goose				15/05/1995 - 08/06/1995	23/09/2017	42	11
<i>Alopochen aegyptiacus</i>	Egyptian Goose				06/10/1999	06/10/2012	5	5
<i>Tadorna ferruginea</i>	Ruddy Shelduck	Birds Dir A1			26/01/1985	02/10/2010	10	3
<i>Tadorna tadorna</i>	Common Shelduck			Bird Amber, Notable Bird	01/04/1983	13/12/2019	496	450
<i>Aix galericulata</i>	Mandarin Duck				21/01/1993 - 22/02/1993	19/11/1996	4	1
<i>Anas penelope</i>	Wigeon			Bird Amber, Notable Bird	09/04/1989 - 09/04/1989	13/12/2019	464	3000
<i>Anas strepera</i>	Gadwall			Bird Amber, Notable Bird	14/01/1989 - 14/01/1989	22/12/2018	306	102
<i>Anas crecca</i>	Teal			Bird Amber, Notable Bird	09/06/1985	13/12/2019	454	730
<i>Anas carolinensis</i>	Green-winged Teal				10/11/2011 - 11/11/2011	10/11/2011 - 11/11/2011	1	1
<i>Anas platyrhynchos</i>	Mallard			Bird Amber, Notable Bird	16/04/1983	13/12/2019	431	220

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Anas acuta</i>	Pintail			Bird Amber, Notable Bird	07/04/1989 - 07/04/1989	22/12/2018	343	216
<i>Anas querquedula</i>	Garganey		WCA Sch1 Pt1	Bird Amber, Notable Bird	26/05/1980	30/04/2010	33	5
<i>Anas clypeata</i>	Shoveler			Bird Amber, Notable Bird	14/04/1983	23/11/2018	176	30
<i>Anas bahamensis</i>	White-cheeked Pintail				24/07/1983	24/07/1983	1	1
<i>Anas sibilatrix</i>	Chilo ½ Wigeon				03/05/1995	19/01/2005	3	1
<i>Netta rufina</i>	Red-crested Pochard				05/12/2003	05/12/2003	1	1
<i>Aythya ferina</i>	Pochard			Bird Red, Notable Bird	16/02/1989 - 16/02/1989	23/02/2019	182	56
<i>Aythya fuligula</i>	Tufted Duck			Notable Bird	16/02/1989 - 16/02/1989	13/12/2019	393	70
<i>Aythya marila</i>	Scaup		WCA Sch1 Pt1, NERC S41	UK BAP Priority, Bird Red	26/02/1989 - 26/02/1989	26/02/2017	71	4
<i>Clangula hyemalis</i>	Long-tailed Duck		WCA Sch1 Pt1	RedList Global post2001 VU, Bird Red	13/11/1989	06/02/2017	22	10
<i>Melanitta nigra</i>	Common Scoter		WCA Sch1 Pt1, NERC S41	UK BAP Priority, Bird Red	10/11/1990	12/12/2018	8	3
<i>Melanitta fusca</i>	Velvet Scoter		WCA Sch1 Pt1	RedList Global post2001 EN, Bird Red	11/12/2003	22/11/2018	3	1
<i>Mergellus albellus</i>	Smew	Birds Dir A1		Bird Amber	19/01/1985	29/02/2012	30	11
<i>Oxyura jamaicensis</i>	Ruddy Duck				15/02/1985	27/07/2006	39	11
<i>Cairina moschata</i>	Muscovy Duck				21/07/2008	21/07/2008	1	1
<i>Dendrocygna bicolor</i>	Fulvous Whistling Duck				20/02/2004	20/02/2004	1	2
<i>Dendrocygna viduata</i>	White-faced Whistling Duck				08/04/1993	08/04/1993	1	1
<i>Egretta garzetta</i>	Little Egret	Birds Dir A1		Notable Bird	26/07/1987	06/04/2019	1283	281
<i>Nycticorax nycticorax</i>	Night-heron	Birds Dir A1			19/04/1994	19/04/1994	1	1
<i>Ardea alba</i>	Great White Egret				15/06/1985	29/09/2015	40	2
<i>Ardea cinerea</i>	Grey Heron				29/07/1989 - 29/07/1989	23/02/2019	415	46
<i>Botaurus stellaris</i>	Bittern	Birds Dir A1	WCA Sch1 Pt1, NERC S41	UK BAP Priority, Bird Amber, Notable Bird	30/01/1987 - 04/02/1987	30/01/2018	20	2
<i>Bubulcus ibis</i>	Cattle Egret				14/08/2011	25/08/2018 - 29/08/2018	20	1
<i>Platalea leucorodia</i>	Spoonbill	Birds Dir A1	WCA Sch1 Pt1	Bird Amber	27/04/1995	24/01/2016	121	5

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Alectoris rufa</i>	Red-legged Partridge				April 1992 - July 1992	17/01/2017	20	24
<i>Perdix perdix</i>	Grey Partridge		NERC S41	UK BAP Priority, Bird Red, Notable Bird	01/05/1990	22/11/2018	60	15
<i>Coturnix coturnix</i>	Quail		WCA Sch1 Pt1	Bird Amber, Notable Bird	18/08/1989	17/06/2004	5	1
<i>Phasianus colchicus</i>	Pheasant				23/06/2002	12/04/2019	143	24
<i>Numida meleagris</i>	Helmeted Guineafowl				12/12/2007	12/12/2007	1	42
<i>Gavia stellata</i>	Red-throated Diver	Birds Dir A1	WCA Sch1 Pt1		06/01/1991 - 06/01/1991	15/11/2010	17	2
<i>Gavia arctica</i>	Black-throated Diver	Birds Dir A1	WCA Sch1 Pt1	UK BAP Priority, Bird Amber	22/11/2016	11/12/2018	21	1
<i>Gavia immer</i>	Great Northern Diver	Birds Dir A1	WCA Sch1 Pt1	Bird Amber	14/01/2001	06/02/2017	20	3
<i>Tachybaptus ruficollis</i>	Little Grebe			Notable Bird	13/01/1985	13/12/2019	320	59
<i>Podiceps cristatus</i>	Great Crested Grebe				29/11/1987	12/11/2018	183	30
<i>Podiceps grisegena</i>	Red-necked Grebe			Bird Red	18/12/1990	20/09/2006	5	1
<i>Podiceps auritus</i>	Slavonian Grebe	Birds Dir A1	WCA Sch1 Pt1	Bird Red	28/01/1990	01/11/2018	22	7
<i>Podiceps nigricollis</i>	Black-necked Grebe		WCA Sch1 Pt1	Bird Amber	04/12/2005 - 13/12/2005	01/02/2006	9	2
<i>Fulmarus glacialis</i>	Fulmar			Bird Amber, Notable Bird	06/06/1994	06/06/1994	1	1
<i>Phalacrocorax carbo</i>	Cormorant				21/08/1990	13/12/2019	411	91
<i>Phalacrocorax aristotelis</i>	Shag			Bird Red	01/01/1995	01/01/1995	1	1
<i>Pelecanus onocrotalus</i>	Great White Pelican				15/09/1996 - 16/09/1996	15/09/1996 - 16/09/1996	1	1
<i>Pernis apivorus</i>	Honey-buzzard	Birds Dir A1	WCA Sch1 Pt1	Bird Amber, Notable Bird	01/09/2001	20/09/2013	6	1
<i>Milvus milvus</i>	Red Kite	Birds Dir A1	WCA Sch1 Pt1	RedList Global post2001 NT, Notable Bird	17/10/2000	27/03/2020	36	2
<i>Circus aeruginosus</i>	Marsh Harrier	Birds Dir A1	WCA Sch1 Pt1	Bird Amber, Notable Bird	31/08/1980	31/12/2018	298	4
<i>Circus cyaneus</i>	Hen Harrier	Birds Dir A1	WCA Sch1 Pt1, NERC S41	Bird Red, Notable Bird	03/11/1980	17/10/2015	123	3
<i>Circus pygargus</i>	Montagu's Harrier	Birds Dir A1	WCA Sch1 Pt1	Bird Amber, Notable Bird	18/08/1980	14/05/2005	11	1
<i>Accipiter gentilis</i>	Goshawk		WCA Sch1 Pt1	Notable Bird	04/03/2017	04/03/2017	1	1

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Accipiter nisus</i>	Sparrowhawk				01/01/1989 - 30/03/1989	06/04/2019	464	5
<i>Buteo buteo</i>	Buzzard				27/05/1990	05/10/2018	328	10
<i>Pandion haliaetus</i>	Osprey	Birds Dir A1	WCA Sch1 Pt1	Bird Amber, Notable Bird	28/08/1993	08/08/2019	548	5
<i>Parabuteo unicinctus</i>	Harris's Hawk				07/11/2006	28/09/2008	7	1
<i>Falconidae</i>	Falcons				23/11/2015	23/11/2015	1	1
<i>Falco tinnunculus</i>	Kestrel			Bird Amber, Notable Bird	01/04/1989 - 30/07/1989	18/03/2020	276	12
<i>Falco columbarius</i>	Merlin	Birds Dir A1	WCA Sch1 Pt1	Bird Red	28/10/1989	12/03/2016	98	2
<i>Falco subbuteo</i>	Hobby		WCA Sch1 Pt1	Notable Bird	21/06/1981	11/05/2018	209	2
<i>Falco peregrinus</i>	Peregrine	Birds Dir A1	WCA Sch1 Pt1	Notable Bird	13/01/1983	22/12/2018	309	2
<i>Gallinula chloropus</i>	Moorhen				16/04/1983	22/07/2019	281	58
<i>Rallus aquaticus</i>	Water Rail				07/04/1980	14/12/2018	321	15
<i>Porzana porzana</i>	Spotted Crake	Birds Dir A1	WCA Sch1 Pt1	Bird Amber, Notable Bird	30/08/1997	30/08/1997	1	1
<i>Fulica atra</i>	Coot				20/05/1983	13/12/2019	424	190
<i>Haematopus ostralegus</i>	Oystercatcher			Bird Amber, Notable Bird	01/05/1989 - 30/06/1989	13/12/2019	602	250
<i>Charadrius dubius</i>	Little Ringed Plover		WCA Sch1 Pt1	Notable Bird	02/08/1989	11/03/2017	38	18
<i>Charadrius hiaticula</i>	Ringed Plover			Bird Red, Notable Bird	20/01/1995	01/09/2018	107	160
<i>Charadrius semipalmatus</i>	Semipalmated Plover				18/10/2013	18/10/2013	1	1
<i>Charadrius alexandrinus</i>	Kentish Plover		WCA Sch1 Pt1		13/05/2009	13/05/2009	1	2
<i>Pluvialis apricaria</i>	Golden Plover	Birds Dir A1			29/03/1991 - 29/03/1991	30/09/2018	229	5000
<i>Pluvialis squatarola</i>	Grey Plover			Bird Amber	18/09/1997	13/12/2019	229	600
<i>Vanellus vanellus</i>	Lapwing		NERC S41	UK BAP Priority, Bird Red, Notable Bird	24/01/1981	13/12/2019	547	3000
<i>Recurvirostra avosetta</i>	Avocet	Birds Dir A1	WCA Sch1 Pt1	Bird Amber, Notable Bird	20/10/1990	02/02/2020	300	80
<i>Actitis hypoleucos</i>	Common Sandpiper			Bird Amber, Notable Bird	01/01/1989 - 30/03/1989	10/10/2018	400	30
<i>Gallinago gallinago</i>	Snipe			Bird Amber, Notable Bird	26/06/1983	22/12/2018	303	188
<i>Lymnocyptes minimus</i>	Jack Snipe				07/04/1980	05/11/2018	226	38
<i>Numenius phaeopus</i>	Whimbrel		WCA Sch1 Pt1	Bird Red	30/04/1981	31/08/2018	326	239

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Numenius arquata</i>	Curlew		NERC S41	UK BAP Priority, RedList Global post2001 NT, Bird Red, Notable Bird	23/07/1989	13/12/2019	579	800
<i>Scolopax rusticola</i>	Woodcock			Bird Red, Notable Bird	12/02/1984	03/02/2014	24	3
<i>Calidris canutus</i>	Knot			Bird Amber	04/05/1990	01/09/2016	68	814
<i>Calidris alba</i>	Sanderling			Bird Amber	27/08/1993	05/04/2016	7	80
<i>Calidris minuta</i>	Little Stint				04/09/1993	14/09/2016	36	39
<i>Calidris temminckii</i>	Temminck's Stint		WCA Sch1 Pt1		11/09/2000 - 14/09/2000	11/09/2000 - 14/09/2000	2	1
<i>Calidris ferruginea</i>	Curlew Sandpiper			Bird Amber	30/08/1995	13/11/2016	49	25
<i>Calidris alpina</i>	Dunlin			Bird Amber	24/04/1993	22/12/2018	315	2800
<i>Calidris maritima</i>	Purple Sandpiper		WCA Sch1 Pt1	Bird Amber	31/03/2017	31/03/2017	1	4
<i>Calidris subruficollis</i>	Buff-breasted Sandpiper				21/09/2010	21/09/2010	1	1
<i>Calidris pugnax</i>	Ruff	Birds Dir A1	WCA Sch1 Pt1	Bird Red	28/03/1989 - 28/03/1989	08/08/2016	68	10
<i>Limosa limosa</i>	Black-tailed Godwit		WCA Sch1 Pt1	UK BAP Priority, RedList Global post2001 NT, Bird Red	01/03/1985	23/11/2018	725	615
<i>Limosa lapponica</i>	Bar-tailed Godwit	Birds Dir A1		Bird Amber	31/07/1992 - 31/07/1992	22/11/2018	57	200
<i>Tringa erythropus</i>	Spotted Redshank			Bird Amber	22/01/1989 - 12/02/1989	11/12/2018	562	10
<i>Tringa totanus</i>	Redshank			Bird Amber, Notable Bird	01/06/1980	13/12/2019	659	2141
<i>Tringa nebularia</i>	Greenshank		WCA Sch1 Pt1	Bird Amber	01/01/1989 - 30/03/1989	22/07/2019	1094	186
<i>Tringa ochropus</i>	Green Sandpiper		WCA Sch1 Pt1	Bird Amber	05/01/1980	24/10/2018	362	10
<i>Tringa glareola</i>	Wood Sandpiper	Birds Dir A1	WCA Sch1 Pt1	Bird Amber	29/07/1989 - 29/07/1989	21/09/2008	21	9
<i>Arenaria interpres</i>	Turnstone			Bird Amber	31/03/1995	23/11/2018	224	60
<i>Phalaropus lobatus</i>	Red-necked Phalarope	Birds Dir A1	WCA Sch1 Pt1	UK BAP Priority, Bird Red	05/09/2016	15/09/2016	20	1
<i>Phalaropus fulicarius</i>	Grey Phalarope				07/01/1983	16/09/2011	3	1
<i>Stercorarius parasiticus</i>	Arctic Skua			UK BAP Priority, Bird Red	14/05/1994	14/05/1994	1	1
<i>Stercorarius skua</i>	Great Skua			Bird Amber	10/01/1993	06/10/2004	3	1

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Hydrocoloeus minutus</i>	Little Gull	Birds Dir A1	WCA Sch1 Pt1		08/05/1989 - 08/05/1989	08/03/2016	22	11
<i>Sternula albifrons</i>	Little Tern	Birds Dir A1	WCA Sch1 Pt1	Bird Amber, Notable Bird	22/09/1993	22/04/2012	8	3
<i>Larus melanocephalus</i>	Mediterranean Gull	Birds Dir A1	WCA Sch1 Pt1	Bird Amber, Notable Bird	02/06/1989 - 02/06/1989	18/04/2019	570	910
<i>Larus canus</i>	Common Gull			Bird Amber, Notable Bird	01/01/1993	15/04/2019	106	8000
<i>Larus fuscus</i>	Lesser Black-backed Gull			Bird Amber, Notable Bird	15/11/1999	06/09/2017	37	84
<i>Larus fuscus subsp. intermedius</i>	Black-Backed Gull			Bird Amber, Notable Bird	06/02/2015	06/02/2015	1	1
<i>Larus michahellis</i>	Yellow-legged Gull			Bird Amber, Notable Bird	21/11/1993	08/03/2011	14	3
<i>Larus argentatus</i>	Herring Gull		NERC S41	UK BAP Priority, Bird Red, Notable Bird	18/10/1995 - 26/10/1995	13/12/2019	215	300
<i>Larus glaucooides</i>	Iceland Gull			Bird Amber	12/03/1994	31/03/2009	2	1
<i>Larus hyperboreus</i>	Glaucous Gull			Bird Amber	28/04/1991 - 28/04/1991	07/02/2009	5	1
<i>Larus marinus</i>	Great Black-backed Gull			Bird Amber, Notable Bird	16/09/1996	06/04/2019	123	120
<i>Xema sabini</i>	Sabine's Gull				17/09/2011	17/09/2011	1	1
<i>Chroicocephalus ridibundus</i>	Black-headed Gull			Bird Amber, Notable Bird	16/11/1996	13/12/2019	367	7000
<i>Rissa tridactyla</i>	Kittiwake			Bird Red, Notable Bird	02/12/1994	07/02/2001	3	1
<i>Chlidonias niger</i>	Black Tern	Birds Dir A1	WCA Sch1 Pt1		20/05/1989 - 20/05/1989	16/08/2010	15	40
<i>Chlidonias leucopterus</i>	White-winged Black Tern				16/07/1988	31/07/1995 - 06/08/1995	2	1
<i>Sterna sandvicensis</i>	Sandwich Tern	Birds Dir A1		Bird Amber, Notable Bird	02/12/1989	09/12/2018	107	12
<i>Sterna hirundo</i>	Common Tern	Birds Dir A1		Bird Amber, Notable Bird	30/08/1992 - 30/08/1992	01/09/2018	46	40
<i>Sterna paradisaea</i>	Arctic Tern	Birds Dir A1		Bird Amber	16/10/2001	27/10/2017	8	2
<i>Uria aalge</i>	Guillemot			Bird Amber	27/12/1999	24/02/2014	4	1
<i>Alca torda</i>	Razorbill			Bird Amber	23/03/1996	23/03/1996	1	1
<i>Columba livia</i>	Feral Pigeon				21/01/2006	01/09/2018	40	42



Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Columba oenas</i>	Stock Dove			Bird Amber, Notable Bird	01/07/1990	22/07/2019	141	300
<i>Columba palumbus</i>	Woodpigeon				April 1992 - July 1992	22/07/2019	328	1000
<i>Streptopelia decaocto</i>	Collared Dove				16/06/1995	22/07/2019	229	48
<i>Streptopelia turtur</i>	Turtle Dove		NERC S41	UK BAP Priority, Bird Red, Notable Bird	16/05/1987	23/05/2017	169	20
<i>Psittacula krameri</i>	Ring-necked Parakeet				14/08/2009	14/08/2009	1	1
<i>Cyanoliseus patagonus</i>	Patagonian Conure				17/10/2007	17/10/2007	1	1
<i>Melopsittacus undulatus</i>	Budgerigar				05/03/1996	26/07/2006	2	1
<i>Nymphicus hollandicus</i>	Cockatiel				23/06/1989	07/12/2007	9	1
<i>Cuculus canorus</i>	Cuckoo		NERC S41	UK BAP Priority, Bird Red, Notable Bird	12/04/1989 - 26/07/1989	03/06/2016	113	6
<i>Tyto alba</i>	Barn Owl		WCA Sch1 Pt1	Notable Bird	13/08/1980	13/03/2020	187	3
<i>Bubo bubo</i>	Eurasian Eagle Owl	Birds Dir A1			08/05/2008	08/05/2008	1	1
<i>Athene noctua</i>	Little Owl				22/12/1982	13/03/2016	24	2
<i>Strix aluco</i>	Tawny Owl			Bird Amber, Notable Bird	27/05/1987	08/11/2018	24	1
<i>Asio otus</i>	Long-eared Owl			Notable Bird	28/02/1987	10/10/1996	4	1
<i>Asio flammeus</i>	Short-eared Owl	Birds Dir A1		Bird Amber, Notable Bird	09/03/1980	30/03/2019	319	9
<i>Apus apus</i>	Swift			Bird Amber, Notable Bird	07/06/1989 - 07/06/1989	10/04/2019	154	1000
<i>Alcedo atthis</i>	Kingfisher	Birds Dir A1	WCA Sch1 Pt1	Bird Amber, Notable Bird	18/08/1981	24/12/2019	460	6
<i>Upupa epops</i>	Hoopoe		WCA Sch1 Pt1	Notable Bird	19/11/1993	07/05/2004	2	1
<i>Jynx torquilla</i>	Wryneck		WCA Sch1 Pt1	UK BAP Priority, Notable Bird	31/08/1997 - 04/09/1997	04/10/2008	9	1
<i>Picus viridis</i>	Green Woodpecker			Notable Bird	05/05/1988	14/12/2018	156	4
<i>Dendrocopos major</i>	Great Spotted Woodpecker				03/05/1981	29/02/2020	132	3
<i>Dendrocopos minor</i>	Lesser Spotted Woodpecker		NERC S41	UK BAP Priority, Bird Red, Notable Bird	26/01/1987	26/01/1987	1	1
<i>Acrocephalus paludicola</i>	Aquatic Warbler	Birds Dir A1	NERC S41	UK BAP Priority, RedList Global post2001 VU, Bird Red	20/09/1992 - 22/09/1992	11/08/2004	12	1
<i>Acrocephalus schoenobaenus</i>	Sedge Warbler				01/06/1986	13/05/2019	135	124

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Acrocephalus scirpaceus</i>	Reed Warbler				01/06/1986	07/09/2017	157	172
<i>Acrocephalus arundinaceus</i>	Great Reed Warbler				19/05/1989	19/05/1989	1	1
<i>Cettia cetti</i>	Cetti's Warbler		WCA Sch1 Pt1	Notable Bird	01/01/1988 - 21/06/1988	04/12/2018	611	50
<i>Locustella naevia</i>	Grasshopper Warbler		NERC S41	UK BAP Priority, Bird Red, Notable Bird	07/06/1987	27/08/2014	25	6
<i>Phylloscopus inornatus</i>	Yellow-browed Warbler				29/09/2017	29/09/2017	1	1
<i>Phylloscopus sibilatrix</i>	Wood Warbler		NERC S41	UK BAP Priority, Bird Red, Notable Bird	12/08/2007	12/08/2007	1	1
<i>Phylloscopus collybita</i>	Chiffchaff				25/03/1990	15/04/2019	303	48
<i>Phylloscopus trochilus</i>	Willow Warbler			Bird Amber, Notable Bird	15/04/1989 - 01/07/1989	06/08/2017	79	16
<i>Alaudidae</i>	Larks				06/04/2015	06/04/2015	1	Present
<i>Lullula arborea</i>	Woodlark	Birds Dir A1	WCA Sch1 Pt1, NERC S41	UK BAP Priority, Notable Bird	06/02/1996	03/10/1997	2	1
<i>Alauda arvensis</i>	Skylark		NERC S41	UK BAP Priority, Bird Red, Notable Bird	29/12/1991 - 29/12/1991	09/05/2019	209	120
<i>Hirundinidae</i>	Hirundine Species				21/09/2014	21/09/2014	1	Present
<i>Riparia riparia</i>	Sand Martin			Notable Bird	17/08/1984	12/09/2018	120	3500
<i>Hirundo rustica</i>	Swallow			Notable Bird	02/09/1980	29/08/2019	334	5000
<i>Delichon urbicum</i>	House Martin			Bird Amber, Notable Bird	16/04/1991 - 16/04/1991	29/08/2019	148	2500
<i>Anthus trivialis</i>	Tree Pipit		NERC S41	UK BAP Priority, Bird Red, Notable Bird	28/08/1994	14/09/2017	2	1
<i>Anthus pratensis</i>	Meadow Pipit			Bird Amber, Notable Bird	01/06/1988	31/12/2018	170	100
<i>Anthus petrosus</i>	Rock Pipit				03/11/1990	19/11/2018	85	4
<i>Anthus petrosus subsp. littoralis</i>	Scandinavian Rock Pipit				05/03/2006	26/02/2008	2	1
<i>Anthus spinoletta</i>	Water Pipit			Bird Amber	22/02/1991	05/11/2010	95	7
<i>Motacilla flava</i>	Yellow Wagtail		NERC S41	UK BAP Priority, Bird Red, Notable Bird	26/05/1980	08/09/2018	154	376
<i>Motacilla cinerea</i>	Grey Wagtail			Bird Red, Notable Bird	17/04/1986	03/10/2018	225	6
<i>Motacilla alba</i>	White/Pied Wagtail				01/01/1990	30/09/2018	152	250
<i>Motacilla alba subsp. alba</i>	White Wagtail				12/03/1995	12/03/1995	1	1

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Motacilla alba subsp. yarrellii</i>	Pied Wagtail				April 1992 - July 1992	17/01/2017	22	200
<i>Bombycilla garrulus</i>	Waxwing				16/01/2011	16/01/2011	1	1
<i>Troglodytes troglodytes</i>	Wren				01/05/1988	13/12/2019	219	66
<i>Prunella modularis</i>	Dunnock		NERC S41	UK BAP Priority, Bird Amber, Notable Bird	01/05/1988	20/05/2019	229	44
<i>Erithacus rubecula</i>	Robin				01/05/1988	22/07/2019	306	41
<i>Luscinia megarhynchos</i>	Nightingale			Bird Red, Notable Bird	12/06/1983	02/06/2018	73	5
<i>Phoenicurus ochruros</i>	Black Redstart		WCA Sch1 Pt1	Bird Red, Notable Bird	20/12/1994	17/03/2015	8	1
<i>Phoenicurus phoenicurus</i>	Redstart			Bird Amber, Notable Bird	07/05/1990	31/08/2018	94	28
<i>Saxicola rubetra</i>	Whinchat			Bird Red, Notable Bird	18/07/1989 - 18/07/1989	12/09/2018	144	14
<i>Saxicola rubicola</i>	Stonechat				30/03/1990	31/12/2018	232	12
<i>Oenanthe oenanthe</i>	Wheatear			Notable Bird	11/03/1989 - 11/03/1989	15/04/2019	174	15
<i>Turdus torquatus</i>	Ring Ouzel		NERC S41	UK BAP Priority, Bird Red	20/10/1990	31/03/2013	6	2
<i>Turdus merula</i>	Blackbird				01/12/1994	13/12/2019	335	100
<i>Turdus pilaris</i>	Fieldfare		WCA Sch1 Pt1	Bird Red	26/11/1989	01/02/2018	148	600
<i>Turdus philomelos</i>	Song Thrush		NERC S41	UK BAP Priority, Bird Red, Notable Bird	April 1992 - July 1992	22/07/2019	146	12
<i>Turdus iliacus</i>	Redwing		WCA Sch1 Pt1	Bird Red	16/12/1990	24/11/2018	97	320
<i>Turdus viscivorus</i>	Mistle Thrush			Bird Red, Notable Bird	19/01/1997	30/12/2017	35	19
<i>Muscicapa striata</i>	Spotted Flycatcher		NERC S41	UK BAP Priority, Bird Red, Notable Bird	23/08/1992 - 23/08/1992	25/08/2017	47	7
<i>Ficedula hypoleuca</i>	Pied Flycatcher			Bird Red, Notable Bird	18/08/1993	04/08/2018	9	2
<i>Sylvia atricapilla</i>	Blackcap				01/05/1989 - 30/06/1989	20/05/2019	144	15
<i>Sylvia borin</i>	Garden Warbler				20/08/1993	01/09/2018	20	3
<i>Sylvia curruca</i>	Lesser Whitethroat				17/04/1989 - 30/06/1989	12/09/2018	92	18
<i>Sylvia communis</i>	Whitethroat			Notable Bird	18/04/1989 - 30/06/1989	01/09/2018	131	60
<i>Sylvia undata</i>	Dartford Warbler	Birds Dir A1	WCA Sch1 Pt1	RedList Global post2001 NT, Bird Amber, Notable Bird	03/11/1990	06/01/2017	66	2

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Panurus biarmicus</i>	Bearded Tit		WCA Sch1 Pt1	Notable Bird	19/01/1980	21/07/2018	703	60
<i>Regulus regulus</i>	Goldcrest				01/04/1989 - 15/05/1989	01/09/2018	90	14
<i>Regulus ignicapilla</i>	Firecrest		WCA Sch1 Pt1	Notable Bird	01/02/2001	09/12/2018	15	2
<i>Aegithalos caudatus</i>	Long-tailed Tit				01/05/1990	13/05/2019	158	30
<i>Cyanistes caeruleus</i>	Blue Tit				April 1992 - July 1992	13/05/2019	240	37
<i>Parus major</i>	Great Tit				01/04/1991 - 30/06/1991	13/05/2019	207	25
<i>Periparus ater</i>	Coal Tit				16/09/1990	04/02/2018	21	2
<i>Poecile palustris</i>	Marsh Tit		NERC S41	UK BAP Priority, Bird Red, Notable Bird	03/12/2007	03/12/2007	1	1
<i>Sitta europaea</i>	Nuthatch				07/11/1993	22/07/2019	15	2
<i>Certhia familiaris</i>	Treecreeper				14/12/2001	09/12/2018	13	2
<i>Oriolus oriolus</i>	Golden Oriole		WCA Sch1 Pt1	Bird Red	11/06/1992 - 11/06/1992	11/06/1992 - 11/06/1992	1	1
<i>Lanius collurio</i>	Red-backed Shrike	Birds Dir A1	WCA Sch1 Pt1	UK BAP Priority, Bird Red, Notable Bird	12/09/2006 - 21/09/2006	07/10/2018	31	2
<i>Lanius excubitor</i>	Great Grey Shrike				06/10/1991 - 06/10/1991	24/10/2015	5	1
<i>Corvidae</i>	Corvid				13/12/2019	13/12/2019	1	Present
<i>Garrulus glandarius</i>	Jay				April 1992 - July 1992	29/08/2019	117	7
<i>Pica pica</i>	Magpie				April 1992 - July 1992	13/12/2019	302	36
<i>Corvus monedula</i>	Jackdaw				27/08/2006	20/05/2019	69	200
<i>Corvus frugilegus</i>	Rook				30/07/2003	15/04/2019	77	163
<i>Corvus corone</i>	Carrion Crow				17/03/1996	22/07/2019	322	50
<i>Corvus corax</i>	Raven				01/01/2008	22/12/2018	69	4
<i>Sturnus vulgaris</i>	Starling		NERC S41	UK BAP Priority, Bird Red, Notable Bird	16/12/1990	13/12/2019	347	20000
<i>Passer domesticus</i>	House Sparrow		NERC S41	UK BAP Priority, Bird Red, Notable Bird	22/08/2001	22/07/2019	278	250
<i>Passer montanus</i>	Tree Sparrow		NERC S41	UK BAP Priority, Bird Red, Notable Bird	01/07/1990	01/07/1990	1	1
<i>Acanthis cabaret</i>	Lesser Redpoll		NERC S41	UK BAP Priority, Bird Red, Notable Bird	06/11/1994	31/10/2018	17	25

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Chloris chloris</i>	Greenfinch				21/01/1991 - 21/01/1991	12/04/2019	250	90
<i>Linaria cannabina</i>	Linnet		NERC S41	UK BAP Priority, Bird Red, Notable Bird	08/01/1989 - 08/01/1989	01/09/2018	176	500
<i>Linaria flavirostris</i>	Twite		NERC S41	UK BAP Priority, Bird Red	01/01/1993	15/11/2002	7	10
<i>Spinus spinus</i>	Siskin				22/09/1994	04/05/2016	33	28
<i>Fringilla coelebs</i>	Chaffinch				April 1992 - July 1992	20/05/2019	209	36
<i>Fringilla montifringilla</i>	Brambling		WCA Sch1 Pt1		26/10/1992 - 26/10/1992	14/01/2016	8	2
<i>Serinus serinus</i>	Serin		WCA Sch1 Pt1	Notable Bird	16/04/1997	16/04/1997	1	2
<i>Carduelis carduelis</i>	Goldfinch				April 1992 - July 1992	22/07/2019	311	100
<i>Loxia curvirostra</i>	Common Crossbill		WCA Sch1 Pt1	Notable Bird	11/07/1997	04/04/2011	2	7
<i>Pyrrhula pyrrhula</i>	Bullfinch		NERC S41	UK BAP Priority, Bird Amber, Notable Bird	April 1992 - July 1992	18/02/2017	139	6
<i>Coccothraustes coccothraustes</i>	Hawfinch		NERC S41	UK BAP Priority, Bird Red, Notable Bird	19/01/2005	19/01/2005	1	1
<i>Calcarius lapponicus</i>	Lapland Bunting		WCA Sch1 Pt1	Bird Amber	14/10/2012	14/10/2012	1	1
<i>Plectrophenax nivalis</i>	Snow Bunting		WCA Sch1 Pt1	Bird Amber	26/11/1983	20/10/2013	17	2
<i>Emberiza citrinella</i>	Yellowhammer		NERC S41	UK BAP Priority, Bird Red, Notable Bird	01/04/1991 - 31/07/1991	12/11/2018	20	6
<i>Emberiza schoeniclus</i>	Reed Bunting		NERC S41	UK BAP Priority, Bird Amber, Notable Bird	14/05/1983	23/11/2018	157	102
<i>Emberiza calandra</i>	Corn Bunting		NERC S41	UK BAP Priority, Bird Red, Notable Bird	03/12/1983	01/06/2014	59	51

## Table 6: Sussex notable bird records

Notable bird records have been omitted from this version of the report to allow it to be shared publicly.

## Table 7: Summary invasive non-native species records

This table summarises records from 1980 onwards. See table 8 for detailed records.

Maximum abundance = highest total number of species recorded at one time.

N.B. Where 'Present' appears in abundance column, no single numerical figure for abundance was provided with the record.

Taxon name	Common name	Invasive Non-Native Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<b>Birds</b>						
<i>Aix galericulata</i>	Mandarin Duck	WCA Sch 9 INNS	21/01/1993 - 22/02/1993	19/11/1996	4	1
<i>Alopochen aegyptiacus</i>	Egyptian Goose	WCA Sch 9 INNS	06/10/1999	06/10/2012	5	5
<i>Anser canagicus</i>	Emperor Goose	WCA Sch 9 INNS	10/10/1988	01/01/2001 - 21/01/2001	19	1
<i>Anser indicus</i>	Bar-headed Goose	WCA Sch 9 INNS	15/05/1995 - 08/06/1995	23/09/2017	42	11
<i>Branta canadensis</i>	Canada Goose	WCA Sch 9 INNS	14/05/1983	13/12/2019	407	340
<i>Branta canadensis subsp. parvipes</i>	Lesser Canada Goose	WCA Sch 9 INNS	15/08/2004	23/09/2007	5	1
<i>Branta leucopsis</i>	Barnacle Goose	WCA Sch 9 INNS	01/04/1989 - 01/04/1989	11/02/2016	61	43
<i>Bubo bubo</i>	Eurasian Eagle Owl	WCA Sch 9 INNS	08/05/2008	08/05/2008	1	1
<i>Chen caerulescens</i>	Snow Goose	WCA Sch 9 INNS	01/04/1989 - 01/04/1989	14/02/2007	11	1
<i>Cygnus atratus</i>	Black Swan	WCA Sch 9 INNS	01/04/1990	19/10/2018	29	5
<i>Netta rufina</i>	Red-crested Pochard	WCA Sch 9 INNS	05/12/2003	05/12/2003	1	1
<i>Nycticorax nycticorax</i>	Night-heron	WCA Sch 9 INNS	19/04/1994	19/04/1994	1	1
<i>Oxyura jamaicensis</i>	Ruddy Duck	WCA Sch 9 INNS	15/02/1985	27/07/2006	39	11
<i>Psittacula krameri</i>	Ring-necked Parakeet	WCA Sch 9 INNS	14/08/2009	14/08/2009	1	1
<i>Tadorna ferruginea</i>	Ruddy Shelduck	WCA Sch 9 INNS	26/01/1985	02/10/2010	10	3
<b>Higher Plants - Flowering Plants</b>						
<i>Allium triquetrum</i>	Three-cornered Garlic	WCA Sch 9 INNS	27/06/2012	02/05/2019	5	1
<i>Centranthus ruber</i>	Red valerian	Sussex INNS	15/08/2004	13/07/2009	5	1
<i>Cotoneaster</i>	A Flowering Plant	WCA Sch 9 INNS	07/08/2014	07/08/2014	1	1
<i>Cotoneaster bullatus</i>	Hollyberry cotoneaster	WCA Sch 9 INNS	01/07/2009	01/07/2009	1	1
<i>Cotoneaster dammeri</i>	Bearberry Cotoneaster	WCA Sch 9 INNS	11/04/2019	11/04/2019	1	1
<i>Cotoneaster horizontalis</i>	Wall Cotoneaster	WCA Sch 9 INNS	11/07/2006	19/10/2009	3	1

Taxon name	Common name	Invasive Non-Native Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Crocosmia pottsii x aurea</i> = <i>C. x crocosmiiflora</i>	Montbretia	WCA Sch 9 INNS	15/08/2004	07/08/2014	3	1
<i>Elodea canadensis</i>	Canadian Waterweed	WCA Sch 9 INNS	14/06/2009	14/06/2009	1	1
<i>Fallopia japonica</i>	Japanese Knotweed	WCA Sch 9 INNS	02/06/2004	28/04/2017	8	1
<i>Hyacinthoides hispanica</i>	Spanish Bluebell	Sussex INNS	11/04/2019	02/05/2019	2	1
<i>Hyacinthoides non-scripta x hispanica</i> = <i>H. x massartiana</i>	Hybrid bluebell	Sussex INNS	22/02/2008	14/07/2011	5	1
<i>Lamiastrum galeobdolon</i> subsp. <i>argentatum</i>	Variiegated yellow archangel	WCA Sch 9 INNS	15/04/2010	15/04/2010	1	1
<i>Lemna minuta</i>	Least Duckweed	Sussex INNS	02/08/2012	02/08/2012	1	1
<i>Petasites fragrans</i>	Winter Heliotrope	Sussex INNS	15/08/2004	17/05/2010	6	1
<i>Prunus laurocerasus</i>	Cherry Laurel	Sussex INNS	07/08/2014	02/05/2019	2	1
<i>Quercus ilex</i>	Evergreen Oak	Sussex INNS	22/09/2005	08/03/2019	8	1
<i>Rhododendron ponticum</i>	A Flowering Plant	WCA Sch 9 INNS	08/03/2014	08/03/2014	1	1
<i>Rosa rugosa</i>	Japanese Rose	WCA Sch 9 INNS	11/07/2006	11/07/2006	1	1
<b>Invertebrates - Beetles</b>						
<i>Harmonia axyridis</i>	Harlequin Ladybird	Sussex INNS	17/11/2013	30/05/2019	8	15
<i>Harmonia axyridis</i> form <i>succinea</i>	A Beetle	Sussex INNS	04/07/2018	04/07/2018	1	1
<b>Invertebrates - Moths</b>						
<i>Cameraria ohridella</i>	Horse-Chestnut Leaf-miner	Sussex INNS	19/07/2009	22/07/2019	2	1
<b>Lower Plants - Mosses</b>						
<i>Campylopus introflexus</i>	Heath Star Moss	Sussex INNS	09/07/1996	09/07/1996	2	1
<b>Mammals - Terrestrial (excl. bats)</b>						
<i>Muntiacus reevesi</i>	Chinese Muntjac	WCA Sch 9 INNS	03/06/2018	03/06/2018	1	1
<i>Sciurus carolinensis</i>	Eastern Grey Squirrel	WCA Sch 9 INNS	06/04/2019	21/06/2019	4	1



## Table 8: Invasive non-native species records

Records in this table are from 1980 onwards.

N.B. Where 'Present' appears in abundance column, no single numerical figure for abundance was provided with the record.

Taxon name	Common name	Date	Grid reference	Location name	Abundance
<b>Birds</b>					
<i>Aix galericulata</i>	Mandarin Duck	19/11/1996	SU7405	Emsworth (Hants) (Ch)	1 Male
		Feb-93	SU753058	Peter Pond	1 Male
		21/01/1993 - 22/02/1993	SU753055	Emsworth Peter Pond (Ch)	1 Male
		10/02/1993	SU752058	Emsworth Channel (Ch)	1 Present
<i>Alopochen aegyptiacus</i>	Egyptian Goose	06/10/2012	SU7504	Thorney Deeps, Thorney Deeps (Ch)	5 Present
		05/12/2010	SU7504	Thorney Island, Thorney Island (Ch)	1 Present
		07/11/2010	SU7503	Thorney Deeps, Thorney Deeps (Ch)	
		07/11/2010	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		06/10/1999	SU7705	Nutbourne, Nutbourne (Ch)	1 Present
<i>Anser canagicus</i>	Emperor Goose	01/01/2001 - 21/01/2001	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		05/01/2001	SU750040	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		01/01/2000	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		16/12/1999	SU7503	Thorney Island, Thorney Island (Ch)	1 Present
		02/08/1999 - 28/10/1999	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		12/09/1999	SU778048	Nutbourne, Nutbourne (Ch)	1 Present
		30/08/1999	SU763042	Thorney Island, Thorney Island (Ch)	1 Present
		08/08/1999	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		05/01/1999 - 24/01/1999	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		01/01/1999	SU754043	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		04/11/1998 - 20/12/1998	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		01/08/1998 - 20/10/1998	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		23/07/1998 - 28/07/1998	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
08/06/1998	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present		

Taxon name	Common name	Date	Grid reference	Location name	Abundance
		01/01/1998 - 31/01/1998	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		05/01/1997	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		09/11/1996 - 15/12/1996	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		30/07/1996 - 30/10/1996	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		10/10/1988	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
<i>Anser indicus</i>	Bar-headed Goose	23/09/2017	SU759042	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		31/05/2012	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		18/10/2007	SU7504	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		13/10/2007	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		23/09/2007	SU7503	Thorney Deeps, Thorney Deeps (Ch)	3 Present
		22/09/2007	SU7503	Thorney Deeps, Thorney Deeps (Ch)	3 Present
		04/09/2007	SU7504	Thorney Deeps, Thorney Deeps (Ch)	4 Present
		17/08/2007	SU7504	Thorney Deeps, Thorney Deeps (Ch)	4 Present
		28/07/2007	SU7504	Thorney Deeps, Thorney Deeps (Ch)	3 Present
		01/02/2007	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		19/01/2007	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		20/12/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		06/12/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		04/12/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		22/10/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		19/10/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		16/10/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		14/01/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	3 Present
		30/10/2005	SU7504	Thorney Deeps, Thorney Deeps (Ch)	3 Present
		13/06/2005	SU7504	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		02/06/2005	SU7504	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		01/09/2004	SU7504	Thorney Deeps, Thorney Deeps (Ch)	11 Present
		25/08/2004	SU7504	Thorney Deeps, Thorney Deeps (Ch)	11 Present
		21/08/2004	SU7504	Thorney Deeps, Thorney Deeps (Ch)	10 Present
		16/08/2004	SU7504	Thorney Deeps, Thorney Deeps (Ch)	8 Present
		10/08/2004	SU7504	Thorney Deeps, Thorney Deeps (Ch)	7 Present
		08/08/2004	SU7504	Thorney Deeps, Thorney Deeps (Ch)	4 Present

Taxon name	Common name	Date	Grid reference	Location name	Abundance
		22/04/2004	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		10/10/2003	SU7504	Thorney Deeps, Thorney Deeps (Ch)	7 Present
		30/09/2003	SU7504	Thorney Deeps, Thorney Deeps (Ch)	7 Present
		27/09/2003	SU7504	Thorney Deeps, Thorney Deeps (Ch)	7 Present
		30/07/2003	SU7504	Thorney Deeps, Thorney Deeps (Ch)	3 Present
		20/04/2003	SU7504	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		04/09/2002	SU7504	Thorney Deeps, Thorney Deeps (Ch)	9 Present
		25/08/2002	SU7504	Thorney Deeps, Thorney Deeps (Ch)	4 Present
		01/08/1997 - 03/09/1997	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		19/02/1997 - 12/03/1997	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		30/07/1996 - 01/08/1996	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		29/05/1996	SU753058	Emsworth Peter Pond (Ch)	1 Present
		29/05/1996	SU754047	Hermitage (Emsworth) (Ch)	1 Present
		22/04/1996 - 23/04/1996	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		15/05/1995 - 08/06/1995	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
<i>Branta canadensis</i>	Canada Goose	13/12/2019	SU7604	Thornham Lane & Great Deep	Present pre- Adult
		13/05/2019	SU754067	New Brighton	2 Present
		06/04/2019	SU7505	Emsworth	2 Present
		31/12/2018	SU7604	Thorney Island, Thorney Island (Ch)	100 Present
		14/12/2018	SU759042	Thorney Deeps, Thorney Deeps (Ch)	114 Present
		23/11/2018	SU759042	Thorney Deeps, Thorney Deeps (Ch)	85 Present
		19/11/2018	SU7504	Thorney Island, Thorney Island (Ch)	16 Present
		21/10/2018	SU759042	Thorney Deeps, Thorney Deeps (Ch)	130 Present
		05/09/2018	SU759042	Thorney Deeps, Thorney Deeps (Ch)	40 Present
		01/09/2018	SU7503	Thorney Island, Thorney Island (Ch)	30 Present
		27/08/2018	SU759042	Thorney Deeps, Thorney Deeps (Ch)	46 Present
		29/07/2018	SU759042	Thorney Deeps, Thorney Deeps (Ch)	30 Present
		13/06/2018	SU759042	Thorney Deeps, Thorney Deeps (Ch)	16 Present
		03/05/2018	SU759042	Thorney Deeps, Thorney Deeps (Ch)	14 Present
		16/03/2018	SU759042	Thorney Deeps, Thorney Deeps (Ch)	60 Present
		06/03/2018	SU705	Thorney Island, Thorney Island (Ch)	Present

Taxon name	Common name	Date	Grid reference	Location name	Abundance
		23/02/2018	SU7604	Thorney Island, Thorney Island (Ch)	35 Present
		02/02/2018	SU759042	Thorney Deeps, Thorney Deeps (Ch)	90 Present
		06/01/2018	SU759042	Thorney Deeps, Thorney Deeps (Ch)	138 Present
		04/01/2018	SU7504	Thorney Island, Thorney Island (Ch)	4 Present
		02/01/2018	SU756049	Thorney Island, Thorney Island (Ch)	Present
		30/12/2017	SU7604	Thorney Island, Thorney Island (Ch)	60 Present
		02/12/2017	SU7504	Thorney Deeps, Thorney Deeps (Ch)	87 Present
		04/11/2017	SU7504	Thorney Deeps, Thorney Deeps (Ch)	78 Present
		15/10/2017	SU7504	Thorney Deeps, Thorney Deeps (Ch)	60 Present
		23/09/2017	SU7504	Thorney Deeps, Thorney Deeps (Ch)	340 Present
		04/08/2017	SU7504	Thorney Deeps, Thorney Deeps (Ch)	84 Present
		24/07/2017	SU7504	Thorney Deeps, Thorney Deeps (Ch)	63 Present
		23/06/2017	SU7504	Thorney Deeps, Thorney Deeps (Ch)	8 Present
		25/05/2017	SU7504	Thorney Deeps, Thorney Deeps (Ch)	13 Present
		16/05/2017	SU70S	Thorney Island, Thorney Island (Ch)	1 Present
		01/04/2017	SU7504	Thorney Deeps, Thorney Deeps (Ch)	18 Present
		15/03/2017	SU7504	Thorney Deeps, Thorney Deeps (Ch)	12 Present
		04/03/2017	SU70S	Prinsted (Ch)	6 Present
		18/02/2017	SU7604	Thorney Island, Thorney Island (Ch)	1 Present
		11/02/2017	SU7504	Thorney Deeps, Thorney Deeps (Ch)	84 Present
		02/01/2017	SU7504	Thorney Deeps, Thorney Deeps (Ch)	150 Present
		17/12/2016	SU7504	Thorney Deeps, Thorney Deeps (Ch)	140 Present
		13/11/2016	SU7504	Thorney Deeps, Thorney Deeps (Ch)	99 Present
		19/10/2016	SU7504	Thorney Deeps, Thorney Deeps (Ch)	150 Present
		17/10/2016	SU7504	Thorney Island, Thorney Island (Ch)	100 Present
		23/09/2016	SU7504	Thorney Deeps, Thorney Deeps (Ch)	27 Present
		21/08/2016	SU7504	Thorney Deeps, Thorney Deeps (Ch)	11 Present
		21/07/2016	SU7504	Thorney Deeps, Thorney Deeps (Ch)	30 Present
		24/06/2016	SU7504	Thorney Deeps, Thorney Deeps (Ch)	25 Present
		26/05/2016	SU7504	Thorney Deeps, Thorney Deeps (Ch)	11 Present
		12/05/2016	SU7504	Thorney Deeps, Thorney Deeps (Ch)	5 Present
		08/04/2016	SU7504	Thorney Deeps, Thorney Deeps (Ch)	6 Present
		31/03/2016	SU7504	Thorney Deeps, Thorney Deeps (Ch)	6 Present
		11/02/2016	SU7504	Thorney Deeps, Thorney Deeps (Ch)	55 Present
		05/02/2016	SU7504	Thorney Island, Thorney Island (Ch)	2 Present

Taxon name	Common name	Date	Grid reference	Location name	Abundance
		23/01/2016	SU7504	Thorney Deeps, Thorney Deeps (Ch)	78 Present
		09/12/2015	SU7504	Thorney Deeps (Ch)	110 Present
		25/11/2015	SU7504	Thorney Deeps (Ch)	128 Present
		15/11/2015	SU7705	Nutbourne (Ch)	Present
		02/10/2015	SU7504	Thorney Deeps (Ch)	120 Present
		27/09/2015	SU7504	Thorney Deeps (Ch)	127 Present
		11/09/2015	SU705	Southbourne nr Emsworth	12 Present
		02/08/2015	SU7504	Thorney Deeps (Ch)	80 Present
		31/07/2015	SU7504	Thorney Deeps (Ch)	52 Present
		03/06/2015	SU7504	Thorney Deeps (Ch)	23 Present
		28/05/2015	SU7504	Thorney Deeps (Ch)	18 Present
		15/05/2015	SU7504	Thorney Deeps (Ch)	5 Present
		15/04/2015	SU7504	Thorney Deeps (Ch)	14 Present
		23/03/2015	SU7504	Thorney Deeps (Ch)	5 Present
		14/02/2015	SU7503	Thorney Deeps (Ch)	12 Present
		24/01/2015	SU759042	Thorney Deeps (Ch)	100 Present
		19/01/2015	SU7604	Thorney Island (Ch)	60 Present
		16/12/2014	SU7604	Thorney Island (Ch)	90 Present
		06/12/2014	SU759042	Thorney Deeps (Ch)	96 Present
		06/11/2014	SU759042	Thorney Deeps (Ch)	118 Present
		03/10/2014	SU759042	Thorney Deeps (Ch)	160 Present
		03/09/2014	SU759042	Thorney Deeps (Ch)	100 Present
		13/08/2014	SU759042	Thorney Deeps (Ch)	160 Present
		30/07/2014	SU759042	Thorney Deeps (Ch)	100 Present
		11/06/2014	SU759042	Thorney Deeps (Ch)	24 Present
		25/05/2014	SU7503	Thorney Deeps (Ch)	9 Present
		16/05/2014	SU7504	Thorney Island (Ch)	2 Present
		07/03/2014	SU7503	Thorney Island (Ch)	Present
		05/03/2014	SU759042	Thorney Deeps (Ch)	21 Present
		03/02/2014	SU759042	Thorney Deeps (Ch)	87 Present
		18/01/2014	SU7503	Thorney Island (Ch)	Present
		14/01/2014	SU759042	Thorney Deeps (Ch)	70 Present
		24/11/2013	SU7504	Thorney Island (Ch)	40 Present
		24/11/2013	SU759042	Thorney Deeps (Ch)	57 Present
		17/10/2013	SU759042	Thorney Deeps (Ch)	19 Present

Taxon name	Common name	Date	Grid reference	Location name	Abundance
		20/09/2013	SU759042	Thorney Deeps (Ch)	12 Present
		21/08/2013	SU759042	Thorney Deeps (Ch)	100 Present
		23/07/2013	SU759042	Thorney Deeps (Ch)	18 Present
		07/06/2013	SU759042	Thorney Deeps (Ch)	10 Present
		14/04/2013	SU759042	Thorney Deeps (Ch)	14 Present
		19/03/2013	SU759042	Thorney Deeps (Ch)	14 Present
		05/02/2013	SU7505	Thorney Island (Ch)	Present
		03/02/2013	SU7504	Thorney Deeps (Ch)	30 Present
		20/01/2013	SU759042	Thorney Deeps (Ch)	80 Present
		16/12/2012	SU759042	Thorney Deeps, Thorney Deeps (Ch)	80 Present
		18/11/2012	SU759042	Thorney Deeps, Thorney Deeps (Ch)	90 Present
		26/10/2012	SU759042	Thorney Deeps, Thorney Deeps (Ch)	100 Present
		04/08/2012	SU759042	Thorney Deeps, Thorney Deeps (Ch)	100 Present
		20/07/2012	SU759042	Thorney Deeps, Thorney Deeps (Ch)	46 Present
		06/06/2012	SU759042	Thorney Deeps, Thorney Deeps (Ch)	36 Present
		31/05/2012	SU759042	Thorney Deeps, Thorney Deeps (Ch)	24 Present
		13/05/2012	SU7906	Hambrook, Hambrook nr Chichester	2 Present
		10/04/2012	SU7505	Thorney Island, Thorney Island (Ch)	1 Present
		04/04/2012	SU759042	Thorney Deeps, Thorney Deeps (Ch)	6 Present
		27/03/2012	SU7504	Thorney Deeps, Thorney Deeps (Ch)	4 Present
		19/03/2012	SU70M	Emsworth Harbour/Marina (Ch)	1 Present
		09/03/2012	SU759042	Thorney Deeps, Thorney Deeps (Ch)	19 Present
		06/03/2012	SU7504	Thorney Island, Thorney Island (Ch)	1 Present
		16/02/2012	SU7604	Thorney Island, Thorney Island (Ch)	1 Present
		14/02/2012	SU70M	Emsworth Harbour/Marina (Ch)	70 Present
		11/02/2012 - 14/02/2012	SU70M	Emsworth Harbour/Marina (Ch)	1 Present
		12/02/2012	SU7504	Thorney Island, Thorney Island (Ch)	1 Present
		02/02/2012	SU7505	Hermitage (Emsworth) (Ch)	1 Present
		29/01/2012	SU7603	Thorney Island, Thorney Island (Ch)	56 Present
		02/01/2012	SU759042	Thorney Deeps, Thorney Deeps (Ch)	150 Present
		10/12/2011	SU759042	Thorney Deeps, Thorney Deeps (Ch)	140 Present
		10/11/2011	SU759042	Thorney Deeps, Thorney Deeps (Ch)	142 Present
		05/11/2011	SU70S	Southbourne CP, Southbourne nr Emsworth	1 Present
		01/11/2011	SU70M	Emsworth Harbour/Marina (Ch)	1 Present

Taxon name	Common name	Date	Grid reference	Location name	Abundance
		21/10/2011	SU759042	Thorney Deeps, Thorney Deeps (Ch)	150 Present
		15/09/2011	SU759042	Thorney Deeps, Thorney Deeps (Ch)	30 Present
		15/09/2011	SU7604	Thorney Island, Thorney Island (Ch)	1 Present
		10/08/2011	SU759042	Thorney Deeps, Thorney Deeps (Ch)	120 Present
		31/07/2011	SU759042	Thorney Deeps, Thorney Deeps (Ch)	120 Present
		06/06/2011	SU759042	Thorney Deeps, Thorney Deeps (Ch)	23 Present
		18/05/2011	SU759042	Thorney Deeps, Thorney Deeps (Ch)	8 Present
		18/04/2011	SU759042	Thorney Deeps, Thorney Deeps (Ch)	14 Present
		19/03/2011	SU7504	Thorney Island, Thorney Island (Ch)	16 Present
		03/03/2011 - 19/03/2011	SU7504	Thorney Island, Thorney Island (Ch)	6 Present
		16/03/2011	SU759042	Thorney Deeps, Thorney Deeps (Ch)	16 Present
		24/02/2011	SU70M	Thorney Island, Thorney Island (Ch)	1 Present
		02/02/2011	SU759042	Thorney Deeps, Thorney Deeps (Ch)	60 Present
		01/02/2011	SU70M	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		21/01/2011	SU759042	Thorney Deeps, Thorney Deeps (Ch)	63 Present
		18/01/2011	SU70M	Emsworth Harbour/Marina (Ch)	1 Present
		09/01/2011	SU70M	Thorney Island, Thorney Island (Ch)	1 Present
		14/12/2010	SU7504	Thorney Deeps, Thorney Deeps (Ch)	
		05/12/2010	SU7504	Thorney Island, Thorney Island (Ch)	1 Present
		06/11/2010	SU759042	Thorney Deeps, Thorney Deeps (Ch)	114 Present
		17/10/2010	SU759042	Thorney Deeps, Thorney Deeps (Ch)	
		03/09/2010	SU759042	Thorney Deeps, Thorney Deeps (Ch)	
		27/08/2010	SU759042	Thorney Deeps, Thorney Deeps (Ch)	
		27/07/2010	SU759042	Thorney Deeps, Thorney Deeps (Ch)	100 Present
		21/06/2010	SU7504	Thorney Deeps, Thorney Deeps (Ch)	13 Present
		02/06/2010	SU759042	Thorney Deeps, Thorney Deeps (Ch)	
		28/05/2010	SU759042	Thorney Deeps, Thorney Deeps (Ch)	12 Present
		01/05/2010	SU70Y	Hambrook nr Chichester	Present
		29/04/2010	SU70M	Thorney Deeps, Thorney Deeps (Ch)	
		24/04/2010	SU70M	Emsworth Harbour/Marina (Ch)	1 Present
		15/04/2010	SU759042	Thorney Deeps, Thorney Deeps (Ch)	14 Present
		20/03/2010	SU759042	Thorney Deeps, Thorney Deeps (Ch)	18 Present
		27/02/2010	SU759042	Thorney Deeps, Thorney Deeps (Ch)	15 Present
		30/01/2010	SU70M	Emsworth Harbour/Marina (Ch)	Present

Taxon name	Common name	Date	Grid reference	Location name	Abundance
		05/01/2010	SU7504	Thorney Deeps, Thorney Deeps (Ch)	62 Present
		17/12/2009	SU7504	Thorney Deeps, Thorney Deeps (Ch)	76 Present
		05/12/2009	SU70M	Emsworth Harbour/Marina (Ch)	2 Present
		04/11/2009	SU7504	Thorney Deeps, Thorney Deeps (Ch)	52 Present
		06/10/2009	SU7504	Thorney Deeps, Thorney Deeps (Ch)	70 Present
		04/10/2009	SU7504	Thorney Island, Thorney Island (Ch)	1 Present
		18/09/2009	SU7504	Thorney Deeps, Thorney Deeps (Ch)	97 Present
		21/08/2009	SU70L	Thorney Island West (Ch)	70 Present
		19/08/2009	SU7504	Thorney Deeps, Thorney Deeps (Ch)	123 Present
		09/08/2009	SU7604	Thorney Island, Thorney Island (Ch)	1 Present
		22/07/2009	SU7504	Thorney Deeps, Thorney Deeps (Ch)	35 Present
		19/06/2009	SU7504	Thorney Deeps, Thorney Deeps (Ch)	9 Present
		02/06/2009	SU70M	Emsworth Harbour/Marina (Ch)	8 Present
		24/05/2009	SU7504	Thorney Deeps, Thorney Deeps (Ch)	22 Present
		14/05/2009	SU70N	Emsworth (Hants) (Ch)	2 Present
		12/05/2009	SU70M	Emsworth Marina (Ch)	1 Present
		02/05/2009	SU7603	Thorney Island, Thorney Island (Ch)	4 Present
		28/04/2009	SU70M	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		26/04/2009	SU70M	Emsworth Harbour/Marina (Ch)	7 Present
		08/04/2009	SU7504	Thorney Deeps, Thorney Deeps (Ch)	12 Present
		13/03/2009	SU7504	Thorney Deeps, Thorney Deeps (Ch)	27 Present
		11/02/2009	SU7504	Thorney Deeps, Thorney Deeps (Ch)	63 Present
		24/01/2009	SU7504	Thorney Deeps, Thorney Deeps (Ch)	61 Present
		06/01/2009	SU70M	Emsworth Harbour/Marina (Ch)	24 Present
		12/12/2008	SU7503	Thorney Deeps, Thorney Deeps (Ch)	100 Present
		04/12/2008	SU70M	Emsworth Marina (Ch)	1 Present
		15/11/2008	SU70M	Emsworth Harbour/Marina (Ch)	85 Present
		14/11/2008	SU7503	Thorney Deeps, Thorney Deeps (Ch)	108 Present
		21/10/2008	SU7504	Thorney Deeps, Thorney Deeps (Ch)	70 Present
		13/10/2008	SU7603	Thorney Island, Thorney Island (Ch)	1 Present
		01/08/2008	SU7504	Thorney Deeps, Thorney Deeps (Ch)	74 Present
		29/07/2008	SU70M	Emsworth Marina (Ch)	1 Present
		22/07/2008	SU7504	Thorney Deeps, Thorney Deeps (Ch)	30 Present
		12/07/2008	SU70T	Woodmancote nr Emsworth	4 Present
		04/06/2008	SU7504	Thorney Deeps, Thorney Deeps (Ch)	45 Present



Taxon name	Common name	Date	Grid reference	Location name	Abundance
		31/05/2008	SU7504	Thorney Deeps, Thorney Deeps (Ch)	10 Present
		31/05/2008	SU7504	Thorney Island, Thorney Island (Ch)	12 Present
		26/05/2008	SU70T	Woodmancote nr Emsworth	4 Present
		13/05/2008	SU7504	Thorney Deeps, Thorney Deeps (Ch)	30 Present
		27/04/2008	SU7504	Thorney Deeps, Thorney Deeps (Ch)	24 Present
		23/04/2008	SU70X	Nutbourne (Ch)	1 Present
		21/04/2008	SU70M	Emsworth Marina (Ch)	1 Present
		05/04/2008 - 21/04/2008	SU7603	Thorney Island, Thorney Island (Ch)	1 Present
		07/03/2008	SU7504	Thorney Deeps, Thorney Deeps (Ch)	29 Present
		23/02/2008	SU70T	Woodmancote nr Emsworth	1 Present
		08/02/2008	SU7504	Thorney Deeps, Thorney Deeps (Ch)	57 Present
		26/01/2008	SU70M	Emsworth Harbour/Marina (Ch)	30 Present
		14/01/2008	SU7504	Thorney Deeps, Thorney Deeps (Ch)	34 Present
		07/01/2008	SU70L	Thorney Island West (Ch)	30 Present
		12/12/2007	SU70L	Thorney Island West (Ch)	47 Present
		07/12/2007	SU7504	Thorney Deeps, Thorney Deeps (Ch)	54 Present
		24/11/2007	SU7504	Thorney Deeps, Thorney Deeps (Ch)	59 Present
		22/11/2007	SU70R	Thorney Island East (Ch)	1 Present
		22/11/2007	SU7603	Thorney Island, Thorney Island (Ch)	40 Present
		22/10/2007	SU7504	Thorney Deeps, Thorney Deeps (Ch)	109 Present
		16/10/2007	SU7603	Thorney Island, Thorney Island (Ch)	120 Present
		26/09/2007	SU7504	Thorney Deeps, Thorney Deeps (Ch)	76 Present
		20/08/2007	SU7504	Thorney Deeps, Thorney Deeps (Ch)	171 Present
		26/07/2007	SU7504	Thorney Deeps, Thorney Deeps (Ch)	70 Present
		21/07/2007 - 24/07/2007	SU70R	Thorney Island East (Ch)	1 Present
		05/07/2007	SU7504	Thorney Island, Thorney Island (Ch)	1 Present
		26/06/2007	SU7504	Thorney Deeps, Thorney Deeps (Ch)	10 Present
		16/06/2007	SU7504	Thorney Island, Thorney Island (Ch)	1 Present
		15/06/2007	SU7504	Thorney Deeps, Thorney Deeps (Ch)	21 Present
		16/05/2007	SU7504	Thorney Deeps, Thorney Deeps (Ch)	22 Present
		18/04/2007	SU7504	Thorney Deeps, Thorney Deeps (Ch)	21 Present
		17/03/2007	SU7504	Thorney Deeps, Thorney Deeps (Ch)	35 Present
		14/02/2007	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present

Taxon name	Common name	Date	Grid reference	Location name	Abundance
		10/02/2007	SU7603	Thorney Island, Thorney Island (Ch)	120 Present
		06/02/2007	SU70R	Thorney Island East (Ch)	1 Present
		26/01/2007	SU7504	Thorney Deeps, Thorney Deeps (Ch)	64 Present
		20/12/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	62 Present
		07/11/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	64 Present
		16/10/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	62 Present
		29/09/2006	SU7603	Thorney Island, Thorney Island (Ch)	1 Present
		05/09/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	20 Present
		27/08/2006	SU7504	Thorney Island, Thorney Island (Ch)	1 Present
		09/08/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	72 Present
		24/07/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	50 Present
		14/06/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	11 Present
		13/06/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	51 Present
		14/05/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	15 Present
		20/04/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	14 Present
		13/03/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	20 Present
		04/02/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	50 Present
		16/01/2006	SU7603	Thorney Island, Thorney Island (Ch)	20 Present
		05/01/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	66 Present
		13/12/2005	SU7603	Thorney Island, Thorney Island (Ch)	35 Present
		04/12/2005 - 13/12/2005	SU7603	Thorney Island, Thorney Island (Ch)	30 Present
		03/12/2005	SU7504	Thorney Deeps, Thorney Deeps (Ch)	46 Present
		01/11/2005	SU7504	Thorney Deeps, Thorney Deeps (Ch)	66 Present
		31/10/2005	SU7504	Thorney Deeps, Thorney Deeps (Ch)	100 Present
		02/08/2005	SU7504	Thorney Deeps, Thorney Deeps (Ch)	119 Present
		21/07/2005	SU7504	Thorney Deeps, Thorney Deeps (Ch)	48 Present
		22/06/2005	SU7504	Thorney Deeps, Thorney Deeps (Ch)	24 Present
		30/05/2005	SU7504	Thorney Deeps, Thorney Deeps (Ch)	26 Present
		10/05/2005	SU7504	Thorney Deeps, Thorney Deeps (Ch)	8 Present
		21/04/2005	SU7504	Thorney Deeps, Thorney Deeps (Ch)	22 Present
		03/04/2005	SU7605	Prinsted (Ch)	1 Present
		24/03/2005	SU7504	Thorney Deeps, Thorney Deeps (Ch)	20 Present
		09/02/2005	SU7504	Thorney Deeps, Thorney Deeps (Ch)	27 Present
		01/01/2005	SU7504	Thorney Deeps, Thorney Deeps (Ch)	40 Present

Taxon name	Common name	Date	Grid reference	Location name	Abundance
		10/12/2004	SU759042	Thorney Deeps, Thorney Deeps (Ch)	72 Present
		13/11/2004	SU759042	Thorney Deeps, Thorney Deeps (Ch)	75 Present
		08/10/2004	SU7504	Thorney Deeps, Thorney Deeps (Ch)	130 Present
		21/09/2004	SU7504	Thorney Deeps, Thorney Deeps (Ch)	150 Present
		14/08/2004	SU759042	Thorney Deeps, Thorney Deeps (Ch)	174 Present
		30/07/2004	SU759042	Thorney Deeps, Thorney Deeps (Ch)	100 Present
		06/07/2004	SU759042	Thorney Deeps, Thorney Deeps (Ch)	29 Present
		04/06/2004	SU759042	Thorney Deeps, Thorney Deeps (Ch)	23 Present
		27/05/2004	SU7603	Thorney Deeps, Thorney Deeps (Ch)	6 Present
		15/05/2004	SU7503	Thorney Deeps, Thorney Deeps (Ch)	8 Present
		12/05/2004	SU7504	Thorney Deeps, Thorney Deeps (Ch)	9 Present
		23/04/2004	SU759042	Thorney Deeps, Thorney Deeps (Ch)	17 Present
		11/02/2004	SU7504	Thorney Deeps, Thorney Deeps (Ch)	40 Present
		23/01/2004	SU759042	Thorney Deeps, Thorney Deeps (Ch)	65 Present
		05/12/2003	SU7504	Thorney Deeps, Thorney Deeps (Ch)	90 Present
		03/10/2003	SU7504	Thorney Deeps, Thorney Deeps (Ch)	20 Present
		30/09/2003	SU759042	Thorney Deeps, Thorney Deeps (Ch)	150 Present
		24/08/2003	SU759042	Thorney Deeps, Thorney Deeps (Ch)	170 Present
		31/07/2003	SU759042	Thorney Deeps, Thorney Deeps (Ch)	106 Present
		15/07/2003	SU759042	Thorney Deeps, Thorney Deeps (Ch)	13 Present
		03/06/2003	SU7504	Thorney Deeps, Thorney Deeps (Ch)	7 Present
		23/05/2003	SU759042	Thorney Deeps, Thorney Deeps (Ch)	15 Present
		10/05/2003	SU7504	Thorney Deeps, Thorney Deeps (Ch)	6 Present
		08/04/2003	SU759042	Thorney Deeps, Thorney Deeps (Ch)	15 Present
		22/01/2003	SU7504	Thorney Deeps, Thorney Deeps (Ch)	60 Present
		05/12/2002	SU7504	Thorney Deeps, Thorney Deeps (Ch)	57 Present
		18/11/2002	SU777050	Nutbourne, Nutbourne (Ch)	58 Present
		07/11/2002	SU759042	Thorney Deeps, Thorney Deeps (Ch)	70 Present
		31/10/2002	SU7603	Thorney Island, Thorney Island (Ch)	61 Present
		06/09/2002	SU759042	Thorney Deeps, Thorney Deeps (Ch)	142 Present
		12/08/2002	SU759042	Thorney Deeps, Thorney Deeps (Ch)	150 Present
		31/07/2002	SU7504	Thorney Deeps, Thorney Deeps (Ch)	81 Present
		24/07/2002	SU7504	Thorney Deeps, Thorney Deeps (Ch)	29 Present
		11/06/2002	SU7504	Thorney Deeps, Thorney Deeps (Ch)	6 Present
		08/06/2002	SU759042	Thorney Deeps, Thorney Deeps (Ch)	12 Present

Taxon name	Common name	Date	Grid reference	Location name	Abundance
		20/05/2002	SU7504	Thorney Deeps, Thorney Deeps (Ch)	9 Present
		17/05/2002	SU7503	Thorney Deeps, Thorney Deeps (Ch)	12 Present
		17/04/2002	SU7503	Thorney Deeps, Thorney Deeps (Ch)	12 Present
		12/03/2002	SU759042	Thorney Deeps, Thorney Deeps (Ch)	30 Present
		09/02/2002	SU759042	Thorney Deeps, Thorney Deeps (Ch)	59 Present
		01/01/2002	SU759042	Thorney Deeps, Thorney Deeps (Ch)	82 Present
		15/12/2001	SU7503	Thorney Island, Thorney Island (Ch)	70 Present
		02/11/2001	SU7503	Thorney Island, Thorney Island (Ch)	76 Present
		04/10/2001	SU7504	Thorney Deeps, Thorney Deeps (Ch)	161 Present
		29/09/2001	SU7504	Thorney Deeps, Thorney Deeps (Ch)	130 Present
		17/08/2001	SU7504	Thorney Deeps, Thorney Deeps (Ch)	120 Present
		29/07/2001	SU7503	Thorney Island, Thorney Island (Ch)	48 Present
		04/06/2001	SU7503	Thorney Island, Thorney Island (Ch)	16 Present
		31/05/2001	SU7503	Thorney Island, Thorney Island (Ch)	16 Present
		08/05/2001	SU7504	Thorney Deeps, Thorney Deeps (Ch)	8 Present
		04/05/2001	SU7504	Thorney Deeps, Thorney Deeps (Ch)	7 Present
		26/04/2001	SU7504	Thorney Deeps, Thorney Deeps (Ch)	24 Present
		01/02/2001	SU7504	Thorney Deeps, Thorney Deeps (Ch)	47 Present
		09/01/2001	SU7504	Thorney Deeps, Thorney Deeps (Ch)	60 Present
		20/12/2000	SU7504	Thorney Deeps, Thorney Deeps (Ch)	58 Present
		21/11/2000	SU7504	Thorney Deeps, Thorney Deeps (Ch)	63 Present
		28/07/2000	SU7504	Thorney Deeps, Thorney Deeps (Ch)	19 Present
		12/06/2000	SU7504	Thorney Deeps, Thorney Deeps (Ch)	8 Present
		24/05/2000	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Female; 1 Male; 5 Present
		03/05/2000	SU7504	Thorney Deeps, Thorney Deeps (Ch)	16 Present
		02/04/2000	SU7504	Thorney Deeps, Thorney Deeps (Ch)	30 Present
		09/03/2000	SU7503	Thorney Deeps, Thorney Deeps (Ch)	25 Present
		19/02/2000	SU7503	Thorney Deeps, Thorney Deeps (Ch)	36 Present
		05/01/2000	SU7503	Thorney Deeps, Thorney Deeps (Ch)	36 Present
		31/12/1999	SU7504	Thorney Deeps, Thorney Deeps (Ch)	41 Present
		12/09/1999	SU778048	Nutbourne, Nutbourne (Ch)	48 Present
		30/08/1999	SU763042	Thorney Island, Thorney Island (Ch)	48 Present
		09/08/1999	SU7504	Thorney Deeps, Thorney Deeps (Ch)	162 Present
		08/08/1999	SU7503	Thorney Deeps, Thorney Deeps (Ch)	200 Present

Taxon name	Common name	Date	Grid reference	Location name	Abundance
		28/07/1999	SU7504	Thorney Deeps, Thorney Deeps (Ch)	61 Present
		11/06/1999	SU7504	Thorney Deeps, Thorney Deeps (Ch)	15 Present
		29/05/1999	SU7504	Thorney Deeps, Thorney Deeps (Ch)	14 Present
		26/05/1999	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Female; 1 Male; 4 Present
		22/04/1999	SU7504	Thorney Deeps, Thorney Deeps (Ch)	9 Present
		15/03/1999	SU7504	Thorney Deeps, Thorney Deeps (Ch)	12 Present
		11/02/1999	SU7504	Thorney Deeps, Thorney Deeps (Ch)	20 Present
		24/01/1999	SU7504	Thorney Deeps, Thorney Deeps (Ch)	50 Present
		01/12/1998	SU7504	Thorney Deeps, Thorney Deeps (Ch)	57 Present
		04/11/1998	SU7504	Thorney Deeps, Thorney Deeps (Ch)	60 Present
		20/10/1998	SU7504	Thorney Deeps, Thorney Deeps (Ch)	40 Present
		08/09/1998	SU7504	Thorney Deeps, Thorney Deeps (Ch)	150 Present
		25/08/1998	SU7504	Thorney Deeps, Thorney Deeps (Ch)	150 Present
		28/07/1998	SU7504	Thorney Deeps, Thorney Deeps (Ch)	32 Present
		01/05/1998 - 16/06/1998	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Female; 1 Male; 7 Present
		02/02/1998	SU7504	Thorney Deeps, Thorney Deeps (Ch)	35 Present
		01/01/1998	SU7504	Thorney Deeps, Thorney Deeps (Ch)	54 Present
		01/12/1997	SU7504	Thorney Deeps, Thorney Deeps (Ch)	50 Present
		13/11/1997	SU7504	Thorney Deeps, Thorney Deeps (Ch)	59 Present
		27/08/1997	SU7504	Thorney Deeps, Thorney Deeps (Ch)	146 Present
		29/07/1997	SU7504	Thorney Deeps, Thorney Deeps (Ch)	50 Present
		15/06/1997	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Female; 1 Male
		07/03/1997	SU7504	Thorney Deeps, Thorney Deeps (Ch)	29 Present
		09/02/1997	SU7503	Thorney Island, Thorney Island (Ch)	3 Present
		01/02/1997	SU7504	Thorney Deeps, Thorney Deeps (Ch)	40 Present
		07/01/1997	SU7504	Thorney Deeps, Thorney Deeps (Ch)	46 Present
		07/12/1996	SU7504	Thorney Deeps, Thorney Deeps (Ch)	46 Present
		30/11/1996	SU7504	Thorney Deeps, Thorney Deeps (Ch)	43 Present
		15/10/1996	SU7504	Thorney Deeps, Thorney Deeps (Ch)	47 Present
		04/09/1996	SU7504	Thorney Deeps, Thorney Deeps (Ch)	62 Present
		18/08/1996	SU7504	Thorney Deeps, Thorney Deeps (Ch)	73 Present
		15/06/1996	SU7504	Thorney Deeps, Thorney Deeps (Ch)	2 Female; 2 Male
		29/05/1996	SU753056	Slipper Mill Pond	7 Present

Taxon name	Common name	Date	Grid reference	Location name	Abundance
		22/03/1996	SU7504	Thorney Deeps, Thorney Deeps (Ch)	13 Present
		11/02/1996	SU7504	Thorney Deeps, Thorney Deeps (Ch)	37 Present
		29/01/1996	SU7504	Thorney Deeps, Thorney Deeps (Ch)	36 Present
		1995	SU753056	Slipper Mill Pond	1 Pair
		19/12/1995	SU7504	Thorney Deeps, Thorney Deeps (Ch)	43 Present
		06/11/1995	SU7504	Thorney Deeps, Thorney Deeps (Ch)	48 Present
		11/10/1995	SU7504	Thorney Deeps, Thorney Deeps (Ch)	53 Present
		05/09/1995	SU7504	Thorney Deeps, Thorney Deeps (Ch)	69 Present
		27/08/1995	SU7504	Thorney Deeps, Thorney Deeps (Ch)	58 Present
		26/07/1995	SU7504	Thorney Deeps, Thorney Deeps (Ch)	46 Present
		02/06/1995	SU7504	Thorney Deeps, Thorney Deeps (Ch)	30 Present
		31/05/1995	SU7504	Thorney Deeps, Thorney Deeps (Ch)	24 Present
		20/05/1995	SU7504	Thorney Deeps, Thorney Deeps (Ch)	11 Present
		1994	SU753056	Slipper Mill Pond	1 Pair
		08/10/1994	SU7503	Thorney Deeps, Thorney Deeps (Ch)	64 Present
		26/09/1994	SU7503	Thorney Deeps, Thorney Deeps (Ch)	65 Present
		Aug-94	SU753057	Slipper Mill Pond and Peter Pond, Emsworth	27 Present
		22/08/1994	SU7503	Thorney Deeps, Thorney Deeps (Ch)	46 Present
		26/07/1994	SU7503	Thorney Deeps, Thorney Deeps (Ch)	24 Present
		16/06/1994	SU7503	Thorney Deeps, Thorney Deeps (Ch)	16 Present
		16/05/1994	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Female; 1 Male; 4 Present
		09/05/1994	SU7503	Thorney Deeps, Thorney Deeps (Ch)	14 Present
		12/04/1994	SU7503	Thorney Deeps, Thorney Deeps (Ch)	8 Present
		17/02/1994	SU7503	Thorney Deeps, Thorney Deeps (Ch)	21 Present
		1993	SU753056	Slipper Mill Pond	1 Pair
		10/12/1993	SU7503	Thorney Deeps, Thorney Deeps (Ch)	43 Present
		06/09/1993	SU7503	Thorney Deeps, Thorney Deeps (Ch)	60 Present
		27/08/1993	SU7503	Thorney Deeps, Thorney Deeps (Ch)	19 Present
		27/07/1993	SU7503	Thorney Deeps, Thorney Deeps (Ch)	40 Present
		11/05/1993 - 06/06/1993	SU7503	Thorney Deeps, Thorney Deeps (Ch)	3 Female; 3 Male
		16/02/1993	SU7503	Thorney Deeps, Thorney Deeps (Ch)	30 Present
		09/12/1992 - 09/12/1992	SU7503	Thorney Deeps, Thorney Deeps (Ch)	36 Present

Taxon name	Common name	Date	Grid reference	Location name	Abundance
		08/11/1992 - 08/11/1992	SU7503	Thorney Deeps, Thorney Deeps (Ch)	39 Present
		23/08/1992 - 23/08/1992	SU7704	Thorney Channel, Thorney Channel (Ch)	96 Present
		15/08/1992 - 15/08/1992	SU7503	Thorney Deeps, Thorney Deeps (Ch)	64 Present
		01/04/1992 - 30/06/1992	SU7503	Thorney Deeps, Thorney Deeps (Ch)	2 Female; 2 Male
		31/12/1991 - 31/12/1991	SU7503	Thorney Deeps, Thorney Deeps (Ch)	30 Present
		29/12/1991 - 29/12/1991	SU7504	Thorney Deeps, Thorney Deeps (Ch)	20 Present
		01/04/1991 - 31/07/1991	SU7503	Thorney Deeps, Thorney Deeps (Ch)	2 Female; 2 Male
		28/07/1991 - 28/07/1991	SU7503	Thorney Deeps, Thorney Deeps (Ch)	36 Present
		18/11/1990	SU7504	Thorney Deeps, Thorney Deeps (Ch)	36 Present
		30/07/1990	SU7503	Thorney Deeps, Thorney Deeps (Ch)	21 Present
		01/07/1990	SU7505	Emsworth Peter Pond (Ch)	47 Present
		07/06/1990	SU7503	Thorney Deeps, Thorney Deeps (Ch)	16 Present
		20/05/1990	SU7503	Thorney Deeps, Thorney Deeps (Ch)	18 Present
		12/05/1990	SU759043	Thorney Deeps, Thorney Deeps (Ch)	15 Present
		10/04/1990	SU7503	Thorney Deeps, Thorney Deeps (Ch)	17 Present
		07/06/1989 - 07/06/1989	SU7503	Thorney Deeps, Thorney Deeps (Ch)	21 Present
		14/05/1983	SU753056	Hermitage (Emsworth) (Ch)	1 Present
<i>Branta canadensis subsp. parvipes</i>	Lesser Canada Goose	23/09/2007	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		22/09/2007	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		08/01/2005	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		30/12/2004	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		15/08/2004	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
<i>Branta leucopsis</i>	Barnacle Goose	11/02/2016	SU7504	Thorney Deeps, Thorney Deeps (Ch)	4 Present
		24/01/2016	SU7504	Thorney Deeps, Thorney Deeps (Ch)	4 Present
		23/01/2016	SU7504	Thorney Deeps, Thorney Deeps (Ch)	4 Present
		13/01/2016	SU7504	Thorney Deeps, Thorney Deeps (Ch)	4 Present
		06/01/2016	SU7504	Thorney Deeps, Thorney Deeps (Ch)	4 Present
		28/12/2015	SU7503	Thorney Deeps (Ch)	4 Present

Taxon name	Common name	Date	Grid reference	Location name	Abundance
		12/12/2015	SU7503	Thorney Deeps (Ch)	4 Present
		09/12/2015	SU7504	Thorney Deeps (Ch)	4 Present
		26/11/2015	SU7504	Thorney Deeps (Ch)	4 Present
		25/11/2015	SU7504	Thorney Deeps (Ch)	4 Present
		19/03/2011	SU7503	Thorney Deeps, Thorney Deeps (Ch)	8 Present
		19/03/2011	SU7504	Thorney Island, Thorney Island (Ch)	8 Present
		17/03/2011	SU759042	Thorney Deeps, Thorney Deeps (Ch)	8 Present
		16/03/2011	SU759042	Thorney Deeps, Thorney Deeps (Ch)	8 Present
		15/03/2011	SU759042	Thorney Deeps, Thorney Deeps (Ch)	8 Present
		01/01/2011	SU778049	Nutbourne, Nutbourne (Ch)	1 Present
		28/10/2009	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		15/03/2009	SU7505	Hermitage (Emsworth) (Ch)	1 Present
		13/03/2009	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		17/10/2008	SU7504	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		11/10/2008	SU7504	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		16/08/2008	SU7504	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		06/08/2008	SU7504	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		26/02/2008	SU7504	Thorney Deeps, Thorney Deeps (Ch)	18 Present
		24/02/2008	SU7503	Thorney Island, Thorney Island (Ch)	14 Present
		24/02/2008	SU7504	Thorney Deeps, Thorney Deeps (Ch)	18 Present
		23/02/2008	SU7503	Thorney Deeps, Thorney Deeps (Ch)	18 Present
		22/02/2008	SU7503	Thorney Island, Thorney Island (Ch)	Present
		22/02/2008	SU7504	Thorney Deeps, Thorney Deeps (Ch)	18 Present
		20/02/2008	SU7503	Thorney Deeps, Thorney Deeps (Ch)	18 Present
		19/02/2008	SU7604	Thorney Island, Thorney Island (Ch)	43 Present
		14/02/2008 - 19/02/2008	SU7503	Thorney Deeps, Thorney Deeps (Ch)	40 Present
		04/02/2008 - 19/02/2008	SU70L	Thorney Island West (Ch)	2 Present
		18/02/2008	SU7503	Thorney Deeps, Thorney Deeps (Ch)	43 Present
		18/02/2008	SU758042	Thorney Deeps, Thorney Deeps (Ch)	43 Present
		18/06/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		03/03/2006	SU7604	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		26/01/2006	SU7604	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		25/01/2006	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present



Taxon name	Common name	Date	Grid reference	Location name	Abundance
		04/01/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		04/12/2005	SU7504	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		04/12/2005	SU7603	Thorney Island, Thorney Island (Ch)	2 Present
		12/11/2005	SU7504	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		02/03/2005	SU7505	Hermitage (Emsworth) (Ch)	2 Present
		24/01/2002	SU7604	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		01/01/2002	SU759042	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		29/12/2001	SU7503	Thorney Island, Thorney Island (Ch)	1 Present
		01/11/2001	SU7503	Thorney Island, Thorney Island (Ch)	2 Present
		21/09/2001	SU7504	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		13/12/1998 - 15/03/1999	SU7504	Thorney Deeps, Thorney Deeps (Ch)	5 Present
		15/02/1999	SU7503	Thorney Deeps, Thorney Deeps (Ch)	5 Present
		13/12/1998 - 22/12/1998	SU7504	Thorney Deeps, Thorney Deeps (Ch)	5 Present
		08/06/1998	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		13/04/1997	SU7504	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		03/11/1993 - 08/11/1993	SU7503	Thorney Deeps, Thorney Deeps (Ch)	5 Present
		26/01/1993 - 18/02/1993	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		08/10/1992 - 08/10/1992	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		30/04/1991	SU7503	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		16/02/1991 - 16/02/1991	SU7705	Nutbourne, Nutbourne (Ch)	1 Present
		13/06/1990 - 15/06/1990	SU7503	Thorney Deeps, Thorney Deeps (Ch)	6 Present
		01/04/1989 - 01/04/1989	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
<i>Bubo bubo</i>	Eurasian Eagle Owl	08/05/2008	SU70N	Emsworth (Hants) (Ch)	1 Present
<i>Chen caerulescens</i>	Snow Goose	14/02/2007	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		10/10/2003	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		30/09/2003	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		27/09/2003	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		30/07/2003	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present

Taxon name	Common name	Date	Grid reference	Location name	Abundance
		04/09/2002	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		25/08/2002	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		19/08/2001	SU750040	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		21/09/1998	SU7403	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		03/09/1993	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		01/04/1989 - 01/04/1989	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
<i>Cygnus atratus</i>	Black Swan	19/10/2018	SU752039	Thorney Deeps, Thorney Deeps (Ch)	3 Present
		01/09/2018	SU759042	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		31/08/2018	SU759042	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		29/08/2018	SU759042	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		04/08/2018	SU7504	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		16/07/2018	SU7504	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		18/02/2017	SU7503	Thorney Island, Thorney Island (Ch)	5 Present
		23/01/2011	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		04/12/2010	SU70X	Nutbourne (Ch)	1 Present
		26/01/2008	SU70M	Emsworth Harbour/Marina (Ch)	1 Present
		07/01/2002	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		31/12/2001	SU7505	Emsworth Channel (Ch)	1 Present
		21/10/2001	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		17/08/2001	SU7505	Emsworth Channel (Ch)	1 Present
		15/08/2001	SU7505	Emsworth Channel (Ch)	1 Present
		11/08/2001	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		02/05/2001	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		19/04/2001	SU7503	Thorney Island, Thorney Island (Ch)	1 Present
		19/04/2001	SU7505	Emsworth Channel (Ch)	1 Present
		16/04/2001	SU7405	Emsworth (Hants) (Ch)	1 Present
		29/03/2001	SU7405	Emsworth (Hants) (Ch)	1 Present
		08/03/2001	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		16/01/2001	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		05/10/1999	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		16/08/1999	SU7505	Emsworth Channel (Ch)	1 Present
		04/01/1993 - 10/02/1993	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		23/02/1992	SU7505	Emsworth Peter Pond (Ch)	1 Present

Taxon name	Common name	Date	Grid reference	Location name	Abundance
		26/01/1991	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		01/04/1990	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
<i>Netta rufina</i>	Red-crested Pochard	05/12/2003	SU7505	Hermitage (Emsworth) (Ch)	1 Present
<i>Nycticorax nycticorax</i>	Night-heron	19/04/1994	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
<i>Oxyura jamaicensis</i>	Ruddy Duck	27/07/2006	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		24/05/2006	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		24/05/2006	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		02/07/1999	SU754056	Hermitage (Emsworth) (Ch),	1 Present
		30/06/1999	SU7505	Emsworth Peter Pond (Ch),	1 Male
		09/04/1995	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Male
		01/04/1995 - 09/04/1995	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Male
		21/03/1995	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Male
		12/04/1994 - 16/06/1994	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Male
		30/04/1994	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		10/04/1993 - 31/07/1993	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Male
		19/05/1993	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		12/04/1993	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		21/03/1993 - 27/03/1993	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Male
		24/03/1993	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		23/12/1992 - 24/12/1992	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Female
		31/07/1991 - 31/07/1991	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Male
		22/07/1991 - 23/07/1991	SU7503	Thorney Deeps, Thorney Deeps (Ch)	2 Male
		01/05/1991 - 30/05/1991	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Male
		01/04/1991 - 30/04/1991	SU7503	Thorney Deeps, Thorney Deeps (Ch)	5 Present
18/04/1991 - 18/04/1991	SU7503	Thorney Deeps, Thorney Deeps (Ch)	2 Present		
11/04/1991 - 11/04/1991	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present; 2 Male		

Taxon name	Common name	Date	Grid reference	Location name	Abundance
		29/03/1991 - 29/03/1991	SU7503	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		20/08/1990	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Male
		08/08/1990	SU7503	Thorney Deeps, Thorney Deeps (Ch)	3 Present
		01/04/1990 - 31/07/1990	SU7503	Thorney Deeps, Thorney Deeps (Ch)	4 Present
		07/07/1990	SU7504	Thorney Island, Thorney Island (Ch)	8 Present
		06/07/1990	SU7503	Thorney Deeps, Thorney Deeps (Ch)	6 Present
		27/06/1990	SU759043	Thorney Deeps, Thorney Deeps (Ch)	11 Present
		30/03/1990	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Male
		27/03/1990	SU7503	Thorney Deeps, Thorney Deeps (Ch)	7 Present
		25/03/1990	SU7504	Thorney Island, Thorney Island (Ch)	4 Present
		13/11/1989	SU7503	Thorney Deeps, Thorney Deeps (Ch)	2 Present
		01/08/1989 - 31/08/1989	SU7504	Thorney Deeps, Thorney Deeps (Ch)	3 Present
		12/07/1989 - 30/07/1989	SU7503	Thorney Deeps, Thorney Deeps (Ch)	2 female; 3 Male
		11/07/1989	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 female; 1 Male
		01/04/1989 - 30/06/1989	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		01/03/1989 - 30/03/1989	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Male
		15/02/1985	SU7505	Emsworth Peter Pond (Ch)	1 Present
<i>Psittacula krameri</i>	Ring-necked Parakeet	14/08/2009	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
<i>Tadorna ferruginea</i>	Ruddy Shelduck	02/10/2010	SU7503	Thorney Island, Thorney Island (Ch)	1 Present
		20/09/2008	SU7503	Thorney Island (Ch)	Present
		19/03/2004	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		09/03/2004	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		19/08/1998	SU7504	Thorney Deeps, Thorney Deeps (Ch)	3 Present
		03/09/1995	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Female
		03/09/1995	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Female
		07/04/1995 - 30/04/1995	SU7504	Thorney Deeps, Thorney Deeps (Ch)	1 Female
		15/04/1995	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present
		26/01/1985	SU7503	Thorney Deeps, Thorney Deeps (Ch)	1 Present

**Higher Plants - Flowering Plants**

Taxon name	Common name	Date	Grid reference	Location name	Abundance
<i>Allium triquetrum</i>	Three-cornered Garlic	02/05/2019	SU786058	Chidham and Hambrook - South of Hawthorn Gardens	Present
		02/05/2019	SU786061	Chidham and Hambrook West of Footpath 258 South of Priors Leaze Lane	Present
		21/04/2014	SU70S	Prinsted	Present
		08/03/2014	SU785064	Hambrook, W of	Present
		27/06/2012	SU787052	Chidham	Present
<i>Centranthus ruber</i>	Red valerian	13/07/2009	SU70Y	Hambrook area	Present
		Aug-06	SU70N	Westbourne	Present
		11/07/2006	SU70M	East Emsworth	Present
		22/09/2005	SU70T	Southbourne	Present
		15/08/2004	SU70S	Thornham	Present
<i>Cotoneaster</i>	A Flowering Plant	07/08/2014	SU759053	New Life Christian Church	Present
<i>Cotoneaster bullatus</i>	Hollyberry cotoneaster	01/07/2009	SU753064	Lumley	Present
<i>Cotoneaster dammeri</i>	Bearberry Cotoneaster	11/04/2019	SU783063	Small Woodland	Present
<i>Cotoneaster horizontalis</i>	Wall Cotoneaster	19/10/2009	SU70X	Chidham	Present
		Aug-06	SU70N	Westbourne	Present
		11/07/2006	SU70M	East Emsworth	Present
<i>Crococsmia pottsii x aurea = C. x crocosmiiflora</i>	Montbretia	07/08/2014	SU759053	New Life Christian Church	Present
		21/08/2011	SU70T	Westbourne, Cemetery Lane	Present
		15/08/2004	SU70S	Thornham	Present
<i>Elodea canadensis</i>	Canadian Waterweed	14/06/2009	SU70N	Westbourne, South	Present
<i>Fallopia japonica</i>	Japanese Knotweed	28/04/2017	SU76700591	1st Avenue/2nd Avenue	3-4 Stems
		05/10/2016	SU78610571	Unspecified location within the parish of Southbourne	Present
		27/09/2016	SU78620571	Unspecified location within the Parish of Southbourne	Present
		21/08/2011	SU70M	Hermitage	Present
		09/06/2009	SU70R	Thorney East	Present
		Aug-06	SU70N	Westbourne	Present
		02/08/2005	SU70X	Chidham	Present
		02/06/2004	SU70S	Thornham	Present
<i>Hyacinthoides hispanica</i>	Spanish Bluebell	02/05/2019	SU786061	Chidham and Hambrook West of Footpath 258 South of Priors Leaze Lane	Present
		11/04/2019	SU788070	North Side	Present
<i>Hyacinthoides non-scripta x hispanica = H. x massartiana</i>	Hybrid bluebell	14/07/2011	SU70X	Chidham	Present
		09/06/2009	SU70R	Thorney East	Present
		14/05/2008	SU70M	Thorney Island (NW)	Present

Taxon name	Common name	Date	Grid reference	Location name	Abundance
		14/05/2008	SU70S	Thorney Island (NE)	Present
		22/02/2008	SU70M	Hermitage	Present
<i>Lamiastrum galeobdolon subsp. argentatum</i>	Variiegated yellow archangel	15/04/2010	SU70N	Westbourne area	Present
<i>Lemna minuta</i>	Least Duckweed	02/08/2012	SU70Y	Chidham, Chidmere Pond	Present
<i>Petasites fragrans</i>	Winter Heliotrope	17/05/2010	SU70T	Woodmancote area	Present
		16/11/2008	SU70Y	Hambrook	Present
		22/02/2008	SU70M	Hermitage	Present
		15/08/2006	SU70R	Thorney churchyard	Present
		02/08/2005	SU70X	Chidham	Present
		15/08/2004	SU70S	Thornham	Present
<i>Prunus laurocerasus</i>	Cherry Laurel	02/05/2019	SU785056	Chidham and Hambrook - West of Flatt Road	Present
		07/08/2014	SU759053	New Life Christian Church	Present
<i>Quercus ilex</i>	Evergreen Oak	08/03/2019	SU7607	Westbourne	Present
		07/08/2014	SU759053	New Life Christian Church	Present
		08/03/2014	SU7806	Hambrook, W of	Present
		19/10/2009	SU70X	Chidham	Present
		14/06/2009	SU70N	Westbourne, South	Present
		31/08/2006	SU70M	North Thorney	Present
		Aug-06	SU70N	Westbourne	Present
22/09/2005	SU70R	Thorney Island,	Present		
<i>Rhododendron ponticum</i>	A Flowering Plant	08/03/2014	SU70Y	Hambrook, W of	Present
<i>Rosa rugosa</i>	Japanese Rose	11/07/2006	SU7549105489	Near Slipper Pond	Present
<b>Invertebrates - Beetles</b>					
<i>Harmonia axyridis</i>	Harlequin Ladybird	30/05/2019	SU783045	Chidham	1 Present
		13/05/2019	SU755067	New Brighton	Present
		02/05/2019	SU779056	Southbourne - Nellie's Field (West of Footpath 257)	Present
		17/10/2017	SU76950591	First Avenue	1 Larvae
		18/10/2015	SU759059	Unspecified site within the Parish of Southbourne	15 Adult
		10/10/2015	SU78670513	Nutbourne	1 Adult
		21/07/2015	SU78700581	Unspecified Location Within the parish of Southbourne	Present Adult
		17/11/2013	SU7861806599	Unspecified Location Within Southbourne CP	Present Adult
<i>Harmonia axyridis form succinea</i>	A Beetle	04/07/2018	SU76970590	Southbourne	1 Present
<b>Invertebrates - Moths</b>					

Taxon name	Common name	Date	Grid reference	Location name	Abundance
<i>Cameraria ohridella</i>	Horse-Chestnut Leaf-miner	22/07/2019	SU752062	Lumley	Present Mine
		19/07/2009	SU7505	Hermitage	Present Mine
<b>Lower Plants - Mosses</b>					
<i>Campylopus introflexus</i>	Heath Star Moss	09/07/1996	SU7504	Thorney Deeps	Present
		09/07/1996	SU7579504196	Thorney Deeps S Deeps, Thorney Island SE Deeps (Western side)	1
<b>Mammals - Terrestrial (excl. bats)</b>					
<i>Muntiacus reevesi</i>	Chinese Muntjac	03/06/2018	SU77070473	Printed foreshore	1 Present
<i>Sciurus carolinensis</i>	Eastern Grey Squirrel	21/06/2019	SU76690541	Hazleglen, Prinsted P010 8HT	1 Present
		26/05/2019	SU7806	Hambrook	2-5 Adult
		20/05/2019	SU787051	Nutbourne	1 Present
		06/04/2019	SU755065	New Brighton	1 Present

## Map Citation Sheets

Any citations currently available for designated sites within the search area can be seen on the following pages.



## NATURA 2000 – STANDARD DATA FORM

### **Special Areas of Conservation under the EC Habitats Directive (includes candidate SACs, Sites of Community Importance and designated SACs).**

Each Natura 2000 site in the United Kingdom has its own Standard Data Form containing site-specific information. The data form for this site has been generated from the Natura 2000 Database submitted to the European Commission on the following date:

22/12/2015

The information provided here, follows the officially agreed site information format for Natura 2000 sites, as set out in the [Official Journal of the European Union recording the Commission Implementing Decision of 11 July 2011 \(2011/484/EU\)](#).

The Standard Data Forms are generated automatically for all of the UK's Natura 2000 sites using the European Environment Agency's Natura 2000 software. The structure and format of these forms is exactly as produced by the EEA's Natura 2000 software (except for the addition of this coversheet and the end notes). The content matches exactly the data submitted to the European Commission.

Please note that these forms contain a number of codes, all of which are explained either within the data forms themselves or in the end notes.

Further technical documentation may be found here  
[http://bd.eionet.europa.eu/activities/Natura\\_2000/reference\\_portal](http://bd.eionet.europa.eu/activities/Natura_2000/reference_portal)

As part of the December 2015 submission, several sections of the UK's previously published Standard Data Forms have been updated. For details of the approach taken by the UK in this submission please refer to the following document:  
[http://jncc.defra.gov.uk/pdf/Natura2000\\_StandardDataForm\\_UKApproach\\_Dec2015.pdf](http://jncc.defra.gov.uk/pdf/Natura2000_StandardDataForm_UKApproach_Dec2015.pdf)

More general information on Special Areas of Conservation (SACs) in the United Kingdom is available from the [SAC home page on the JNCC website](#). This webpage also provides links to Standard Data Forms for all SACs in the UK.

Date form generated by the Joint Nature Conservation Committee  
25 January 2016.



# NATURA 2000 - STANDARD DATA FORM

For Special Protection Areas (SPA),  
Proposed Sites for Community Importance (pSCI),  
Sites of Community Importance (SCI) and  
for Special Areas of Conservation (SAC)

SITE UK0030059  
SITENAME Solent Maritime

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- [2. SITE LOCATION](#)
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- [4. SITE DESCRIPTION](#)
- [5. SITE PROTECTION STATUS AND RELATION WITH CORINE BIOTOPES](#)
- [6. SITE MANAGEMENT](#)

## 1. SITE IDENTIFICATION

<b>1.1 Type</b> B	<b>1.2 Site code</b> UK0030059	<a href="#">Back to top</a>
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### 1.3 Site name

Solent Maritime

<b>1.4 First Compilation date</b> 1998-10	<b>1.5 Update date</b> 2015-12
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### 1.6 Respondent:

**Name/Organisation:** Joint Nature Conservation Committee  
**Address:** Joint Nature Conservation Committee Monkstone House City Road Peterborough  
PE1 1JY  
**Email:**

<b>Date site proposed as SCI:</b>	1998-10
<b>Date site confirmed as SCI:</b>	2004-12
<b>Date site designated as SAC:</b>	2005-04
<b>National legal reference of SAC designation:</b>	Regulations 11 and 13-15 of the Conservation of Habitats and Species Regulations 2010 ( <a href="http://www.legislation.gov.uk/uksi/2010/490/contents/made">http://www.legislation.gov.uk/uksi/2010/490/contents/made</a> ).

## 2. SITE LOCATION

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## 2.1 Site-centre location [decimal degrees]:

**Longitude**

-0.927777778

**Latitude**

50.79638889

## 2.2 Area [ha]:

11243.12

## 2.3 Marine area [%]

91.9

## 2.4 Sitelength [km]:

0.0

## 2.5 Administrative region code and name

**NUTS level 2 code****Region Name**

UKJ3	Hampshire and Isle of Wight
UKJ2	Surrey, East and West Sussex
UKZZ	Extra-Regio

## 2.6 Biogeographical Region(s)

Atlantic (100.0  
%)

## 3. ECOLOGICAL INFORMATION

### 3.1 Habitat types present on the site and assessment for them

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Annex I Habitat types						Site assessment			
Code	PF	NP	Cover [ha]	Cave [number]	Data quality	A B C D	A B C		
						Representativity	Relative Surface	Conservation	Global
1110B			3597.8		M	C	C	C	C
1130B			6633.44		G	A	B	B	B
1140B			5059.4		G	A	C	B	C
1150B	X		146.16		P	C	B	B	C
1210B			112.43		P	C	A	B	C
1220B			112.43		M	C	B	B	C
1310B			123.67		P	B	B	B	C
1320B									

		94.44		P	A	A	C	A
1330		2023.76		M	B	B	B	B
2120		112.43		M	C	B	B	C
2130	X	112.43		M	D			

- **PF:** for the habitat types that can have a non-priority as well as a priority form (6210, 7130, 9430) enter "X" in the column PF to indicate the priority form.
- **NP:** in case that a habitat type no longer exists in the site enter: x (optional)
- **Cover:** decimal values can be entered
- **Caves:** for habitat types 8310, 8330 (caves) enter the number of caves if estimated surface is not available.
- **Data quality:** G = 'Good' (e.g. based on surveys); M = 'Moderate' (e.g. based on partial data with some extrapolation); P = 'Poor' (e.g. rough estimation)

### 3.2 Species referred to in Article 4 of Directive 2009/147/EC and listed in Annex II of Directive 92/43/EEC and site evaluation for them

Species			Population in the site							Site assessment				
G	Code	Scientific Name	S	NP	T	Size		Unit	Cat.	D.qual.	A B C D	A B C		
						Min	Max				Pop.	Con.	Iso.	Glo.
M	1355	<a href="#">Lutra lutra</a>			p				P	DD	D			
M	1365	<a href="#">Phoca vitulina</a>			p				P	DD	D			
I	1016	<a href="#">Vertigo moulinsiana</a>			p				R	DD	B	B	B	C

- **Group:** A = Amphibians, B = Birds, F = Fish, I = Invertebrates, M = Mammals, P = Plants, R = Reptiles
- **S:** in case that the data on species are sensitive and therefore have to be blocked for any public access enter: yes
- **NP:** in case that a species is no longer present in the site enter: x (optional)
- **Type:** p = permanent, r = reproducing, c = concentration, w = wintering (for plant and non-migratory species use permanent)
- **Unit:** i = individuals, p = pairs or other units according to the Standard list of population units and codes in accordance with Article 12 and 17 reporting (see [reference portal](#))
- **Abundance categories (Cat.):** C = common, R = rare, V = very rare, P = present - to fill if data are deficient (DD) or in addition to population size information
- **Data quality:** G = 'Good' (e.g. based on surveys); M = 'Moderate' (e.g. based on partial data with some extrapolation); P = 'Poor' (e.g. rough estimation); VP = 'Very poor' (use this category only, if not even a rough estimation of the population size can be made, in this case the fields for population size can remain empty, but the field "Abundance categories" has to be filled in)

## 4. SITE DESCRIPTION

### 4.1 General site character

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Habitat class	% Cover
N02	59.0
N03	23.0
N16	0.5

N01	14.0
N05	3.0
N04	0.5
<b>Total Habitat Cover</b>	<b>100</b>

### Other Site Characteristics

1 Terrestrial: Soil & Geology: shingle, sedimentary, sand, alluvium, mud, neutral, nutrient-rich, clay 2 Terrestrial: Geomorphology and landscape: island, lowland, coastal 3 Marine: Geology: sand, clay, sedimentary, gravel, mud, limestone/chalk, shingle, sandstone/mudstone 4 Marine: Geomorphology: open coast (including bay), estuary, enclosed coast (including embayment), shingle bar, subtidal sediments (including sandbank/mudbank), intertidal sediments (including sandflat/mudflat), islands, lagoon

### 4.2 Quality and importance

Sandbanks which are slightly covered by sea water all the time for which the area is considered to support a significant presence. Estuaries for which this is considered to be one of the best areas in the United Kingdom. Mudflats and sandflats not covered by seawater at low tide for which the area is considered to support a significant presence. Coastal lagoons for which the area is considered to support a significant presence. Annual vegetation of drift lines for which the area is considered to support a significant presence. which is considered to be rare as its total extent in the United Kingdom is estimated to be less than 100 hectares. Perennial vegetation of stony banks for which the area is considered to support a significant presence. Salicornia and other annuals colonising mud and sand for which the area is considered to support a significant presence. Spartina swards (*Spartina maritima*) for which this is one of only two known outstanding localities in the United Kingdom. which is considered to be rare as its total extent in the United Kingdom is estimated to be less than 100 hectares. Atlantic salt meadows (*Glauco-Puccinellietalia maritima*) for which this is considered to be one of the best areas in the United Kingdom. Shifting dunes along the shoreline with *Ammophila arenaria* (?white dunes?) for which the area is considered to support a significant presence. *Vertigo moulinsiana* for which the area is considered to support a significant presence.

### 4.3 Threats, pressures and activities with impacts on the site

The most important impacts and activities with high effect on the site

Negative Impacts			
Rank	Threats and pressures [code]	Pollution (optional) [code]	inside/outside [i o b]
H	H02		B
H	M01		B
H	F02		I
H	M02		B
H	G01		I

Positive Impacts			
Rank	Activities, management [code]	Pollution (optional) [code]	inside/outside [i o b]
H	A04		I
H	A02		I
H	D05		I
H	A03		I
H	B02		I
H	D05		I

Rank: H = high, M = medium, L = low

Pollution: N = Nitrogen input, P = Phosphor/Phosphate input, A = Acid input/acidification,

T = toxic inorganic chemicals, O = toxic organic chemicals, X = Mixed pollutions

i = inside, o = outside, b = both

### 4.5 Documentation

Conservation Objectives - the Natural England links below provide access to the Conservation Objectives (and other site-related information) for its terrestrial and inshore Natura 2000 sites, including conservation advice packages and supporting documents for European Marine Sites within English waters and for cross-border sites. See also the 'UK Approach' document for more information (link via the JNCC website).

Link(s): <http://publications.naturalengland.org.uk/category/6490068894089216>

<http://publications.naturalengland.org.uk/category/3212324>

[http://jncc.defra.gov.uk/pdf/Natura2000\\_StandardDataForm\\_UKApproach\\_Dec2015.pdf](http://jncc.defra.gov.uk/pdf/Natura2000_StandardDataForm_UKApproach_Dec2015.pdf)

## 5. SITE PROTECTION STATUS (optional)

[Back to top](#)

### 5.1 Designation types at national and regional level:

Code	Cover [%]	Code	Cover [%]	Code	Cover [%]
UK04	71.4	UK00	28.6	UK01	4.5

## 6. SITE MANAGEMENT

[Back to top](#)

### 6.1 Body(ies) responsible for the site management:

Organisation:	Natural England
Address:	
Email:	

### 6.2 Management Plan(s):

An actual management plan does exist:

<input type="checkbox"/> Yes
<input type="checkbox"/> No, but in preparation
<input checked="" type="checkbox"/> No

### 6.3 Conservation measures (optional)

For available information, including on Conservation Objectives, see Section 4.5.
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## EXPLANATION OF CODES USED IN THE NATURA 2000 STANDARD DATA FORMS

The codes in the table below are also explained in the [official European Union guidelines for the Standard Data Form](#). The relevant page is shown in the table below.

### 1.1 Site type

CODE	DESCRIPTION	PAGE NO
A	Designated Special Protection Area	53
B	SAC (includes candidates Special Areas of Conservation, Sites of Community Importance and designated SAC)	53
C	SAC area the same as SPA. Note in the UK Natura 2000 submission this is only used for Gibraltar	53

### 3.1 Habitat representativity

CODE	DESCRIPTION	PAGE NO
A	Excellent	57
B	Good	57
C	Significant	57
D	Non-significant presence	57

### 3.1 Habitat code

CODE	DESCRIPTION	PAGE NO
1110	Sandbanks which are slightly covered by sea water all the time	57
1130	Estuaries	57
1140	Mudflats and sandflats not covered by seawater at low tide	57
1150	Coastal lagoons	57
1160	Large shallow inlets and bays	57
1170	Reefs	57
1180	Submarine structures made by leaking gases	57
1210	Annual vegetation of drift lines	57
1220	Perennial vegetation of stony banks	57
1230	Vegetated sea cliffs of the Atlantic and Baltic Coasts	57
1310	Salicornia and other annuals colonizing mud and sand	57
1320	Spartina swards ( <i>Spartinion maritimae</i> )	57
1330	Atlantic salt meadows ( <i>Glauco-Puccinellietalia maritimae</i> )	57
1340	Inland salt meadows	57
1420	Mediterranean and thermo-Atlantic halophilous scrubs ( <i>Sarcocornetea fruticosi</i> )	57
2110	Embryonic shifting dunes	57
2120	Shifting dunes along the shoreline with <i>Ammophila arenaria</i> ("white dunes")	57
2130	Fixed coastal dunes with herbaceous vegetation ("grey dunes")	57
2140	Decalcified fixed dunes with <i>Empetrum nigrum</i>	57
2150	Atlantic decalcified fixed dunes ( <i>Calluno-Ulicetea</i> )	57
2160	Dunes with <i>Hippophila rhamnoides</i>	57
2170	Dunes with <i>Salix repens</i> ssp. <i>argentea</i> ( <i>Salicion arenariae</i> )	57
2190	Humid dune slacks	57
21A0	Machairs (* in Ireland)	57
2250	Coastal dunes with <i>Juniperus</i> spp.	57
2330	Inland dunes with open <i>Corynephorus</i> and <i>Agrostis</i> grasslands	57
3110	Oligotrophic waters containing very few minerals of sandy plains ( <i>Littorelletalia uniflorae</i> )	57
3130	Oligotrophic to mesotrophic standing waters with vegetation of the <i>Littorelletea uniflorae</i> and/or of the <i>Isoëto-Nanojuncetea</i>	57
3140	Hard oligo-mesotrophic waters with benthic vegetation of <i>Chara</i> spp.	57
3150	Natural eutrophic lakes with <i>Magnopotamion</i> or <i>Hydrocharition</i> - type vegetation	57

CODE	DESCRIPTION	PAGE NO
3160	Natural dystrophic lakes and ponds	57
3170	Mediterranean temporary ponds	57
3180	Turloughs	57
3260	Water courses of plain to montane levels with the Ranunculion fluitantis and Callitriche-Batrachion vegetation	57
4010	Northern Atlantic wet heaths with Erica tetralix	57
4020	Temperate Atlantic wet heaths with Erica ciliaris and Erica tetralix	57
4030	European dry heaths	57
4040	Dry Atlantic coastal heaths with Erica vagans	57
4060	Alpine and Boreal heaths	57
4080	Sub-Arctic Salix spp. scrub	57
5110	Stable xerothermophilous formations with Buxus sempervirens on rock slopes (Berberidion p.p.)	57
5130	Juniperus communis formations on heaths or calcareous grasslands	57
6130	Calaminarian grasslands of the Violetalia calaminariae	57
6150	Siliceous alpine and boreal grasslands	57
6170	Alpine and subalpine calcareous grasslands	57
6210	Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia) (* important orchid sites)	57
6230	Species-rich Nardus grasslands, on silicious substrates in mountain areas (and submountain areas in Continental Europe)	57
6410	Molinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinion caeruleae)	57
6430	Hydrophilous tall herb fringe communities of plains and of the montane to alpine levels	57
6510	Lowland hay meadows (Alopecurus pratensis, Sanguisorba officinalis)	57
6520	Mountain hay meadows	57
7110	Active raised bogs	57
7120	Degraded raised bogs still capable of natural regeneration	57
7130	Blanket bogs (* if active bog)	57
7140	Transition mires and quaking bogs	57
7150	Depressions on peat substrates of the Rhynchosporion	57
7210	Calcareous fens with Cladium mariscus and species of the Caricion davallianae	57
7220	Petrifying springs with tufa formation (Cratoneurion)	57
7230	Alkaline fens	57
7240	Alpine pioneer formations of the Caricion bicoloris-atrofuscae	57
8110	Siliceous scree of the montane to snow levels (Androsacetalia alpinae and Galeopsietalia ladani)	57
8120	Calcareous and calcshist screes of the montane to alpine levels (Thlaspietea rotundifolii)	57
8210	Calcareous rocky slopes with chasmophytic vegetation	57
8220	Siliceous rocky slopes with chasmophytic vegetation	57
8240	Limestone pavements	57
8310	Caves not open to the public	57
8330	Submerged or partially submerged sea caves	57
9120	Atlantic acidophilous beech forests with Ilex and sometimes also Taxus in the shrublayer (Quercion robori-petraeae or Ilici-Fagenion)	57
9130	Asperulo-Fagetum beech forests	57
9160	Sub-Atlantic and medio-European oak or oak-hornbeam forests of the Carpinion betuli	57
9180	Tilio-Acerion forests of slopes, screes and ravines	57
9190	Old acidophilous oak woods with Quercus robur on sandy plains	57
91A0	Old sessile oak woods with Ilex and Blechnum in the British Isles	57
91C0	Caledonian forest	57
91D0	Bog woodland	57
91E0	Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno-Padion, Alnion incanae, Salicion albae)	57
91J0	Taxus baccata woods of the British Isles	57



### 3.1 Relative surface

CODE	DESCRIPTION	PAGE NO
A	15%-100%	58
B	2%-15%	58
C	< 2%	58

### 3.1 Conservation status habitat

CODE	DESCRIPTION	PAGE NO
A	Excellent conservation	59
B	Good conservation	59
C	Average or reduced conservation	59

### 3.1 Global grade habitat

CODE	DESCRIPTION	PAGE NO
A	Excellent value	59
B	Good value	59
C	Significant value	59

### 3.2 Population (abbreviated to 'Pop.' in data form)

CODE	DESCRIPTION	PAGE NO
A	15%-100%	62
B	2%-15%	62
C	< 2%	62
D	Non-significant population	62

### 3.2 Conservation status species (abbreviated to 'Con.' in data form)

CODE	DESCRIPTION	PAGE NO
A	Excellent conservation	63
B	Good conservation	63
C	Average or reduced conservation	63

### 3.2 Isolation (abbreviated to 'Iso.' in data form)

CODE	DESCRIPTION	PAGE NO
A	Population (almost) Isolated	63
B	Population not-isolated, but on margins of area of distribution	63
C	Population not-isolated within extended distribution range	63

### 3.2 Global Grade (abbreviated to 'Glo.' Or 'G.' in data form)

CODE	DESCRIPTION	PAGE NO
A	Excellent value	63
B	Good value	63
C	Significant value	63

### 3.3 Assemblages types

CODE	DESCRIPTION	PAGE NO
WATR	Non breeding waterfowl assemblage	UK specific code
SBA	Breeding seabird assemblage	UK specific code
BBA	Breeding bird assemblage (applies only to sites classified pre 2000)	UK specific code

#### 4.1 Habitat class code

CODE	DESCRIPTION	PAGE NO
N01	Marine areas, Sea inlets	65
N02	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins)	65
N03	Salt marshes, Salt pastures, Salt steppes	65
N04	Coastal sand dunes, Sand beaches, Machair	65
N05	Shingle, Sea cliffs, Islets	65
N06	Inland water bodies (Standing water, Running water)	65
N07	Bogs, Marshes, Water fringed vegetation, Fens	65
N08	Heath, Scrub, Maquis and Garrigue, Phygrana	65
N09	Dry grassland, Steppes	65
N10	Humid grassland, Mesophile grassland	65
N11	Alpine and sub-Alpine grassland	65
N14	Improved grassland	65
N15	Other arable land	65
N16	Broad-leaved deciduous woodland	65
N17	Coniferous woodland	65
N19	Mixed woodland	65
N21	Non-forest areas cultivated with woody plants (including Orchards, groves, Vineyards, Dehesas)	65
N22	Inland rocks, Scree, Sands, Permanent Snow and ice	65
N23	Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	65
N25	Grassland and scrub habitats (general)	65
N26	Woodland habitats (general)	65

#### 4.3 Threats code

CODE	DESCRIPTION	PAGE NO
A01	Cultivation	65
A02	Modification of cultivation practices	65
A03	Mowing / cutting of grassland	65
A04	Grazing	65
A05	Livestock farming and animal breeding (without grazing)	65
A06	Annual and perennial non-timber crops	65
A07	Use of biocides, hormones and chemicals	65
A08	Fertilisation	65
A10	Restructuring agricultural land holding	65
A11	Agriculture activities not referred to above	65
B01	Forest planting on open ground	65
B02	Forest and Plantation management & use	65
B03	Forest exploitation without replanting or natural regrowth	65
B04	Use of biocides, hormones and chemicals (forestry)	65
B06	Grazing in forests/ woodland	65
B07	Forestry activities not referred to above	65
C01	Mining and quarrying	65
C02	Exploration and extraction of oil or gas	65
C03	Renewable abiotic energy use	65
D01	Roads, paths and railroads	65
D02	Utility and service lines	65
D03	Shipping lanes, ports, marine constructions	65
D04	Airports, flightpaths	65
D05	Improved access to site	65
E01	Urbanised areas, human habitation	65
E02	Industrial or commercial areas	65

CODE	DESCRIPTION	PAGE NO
E03	Discharges	65
E04	Structures, buildings in the landscape	65
E06	Other urbanisation, industrial and similar activities	65
F01	Marine and Freshwater Aquaculture	65
F02	Fishing and harvesting aquatic resources	65
F03	Hunting and collection of wild animals (terrestrial), including damage caused by game (excessive density), and taking/removal of terrestrial animals (including collection of insects, reptiles, amphibians, birds of prey, etc.), trapping, poisoning, poaching, predator control, accidental capture (e.g. due to fishing gear), etc.)	65
F04	Taking / Removal of terrestrial plants, general	65
F05	Illegal taking/ removal of marine fauna	65
F06	Hunting, fishing or collecting activities not referred to above	65
G01	Outdoor sports and leisure activities, recreational activities	65
G02	Sport and leisure structures	65
G03	Interpretative centres	65
G04	Military use and civil unrest	65
G05	Other human intrusions and disturbances	65
H01	Pollution to surface waters (limnic & terrestrial, marine & brackish)	65
H02	Pollution to groundwater (point sources and diffuse sources)	65
H03	Marine water pollution	65
H04	Air pollution, air-borne pollutants	65
H05	Soil pollution and solid waste (excluding discharges)	65
H06	Excess energy	65
H07	Other forms of pollution	65
I01	Invasive non-native species	65
I02	Problematic native species	65
I03	Introduced genetic material, GMO	65
J01	Fire and fire suppression	65
J02	Human induced changes in hydraulic conditions	65
J03	Other ecosystem modifications	65
K01	Abiotic (slow) natural processes	65
K02	Biocenotic evolution, succession	65
K03	Interspecific faunal relations	65
K04	Interspecific floral relations	65
K05	Reduced fecundity/ genetic depression	65
L05	Collapse of terrain, landslide	65
L07	Storm, cyclone	65
L08	Inundation (natural processes)	65
L10	Other natural catastrophes	65
M01	Changes in abiotic conditions	65
M02	Changes in biotic conditions	65
U	Unknown threat or pressure	65
XO	Threats and pressures from outside the Member State	65

### 5.1 Designation type codes

CODE	DESCRIPTION	PAGE NO
UK00	No Protection Status	67
UK01	National Nature Reserve	67
UK02	Marine Nature Reserve	67
UK04	Site of Special Scientific Interest (UK)	67

# NATURA 2000 – STANDARD DATA FORM

## Special Protection Areas under the EC Birds Directive.

Each Natura 2000 site in the United Kingdom has its own Standard Data Form containing site-specific information. The data form for this site has been generated from the Natura 2000 Database submitted to the European Commission on the following date:

22/12/2015

The information provided here, follows the officially agreed site information format for Natura 2000 sites, as set out in the [Official Journal of the European Union recording the Commission Implementing Decision of 11 July 2011](#) (2011/484/EU).

The Standard Data Forms are generated automatically for all of the UK's Natura 2000 sites using the European Environment Agency's Natura 2000 software. The structure and format of these forms is exactly as produced by the EEA's Natura 2000 software (except for the addition of this coversheet and the end notes). The content matches exactly the data submitted to the European Commission.

Please note that these forms contain a number of codes, all of which are explained either within the data forms themselves or in the end notes.

Further technical documentation may be found here  
[http://bd.eionet.europa.eu/activities/Natura\\_2000/reference\\_portal](http://bd.eionet.europa.eu/activities/Natura_2000/reference_portal)

As part of the December 2015 submission, several sections of the UK's previously published Standard Data Forms have been updated. For details of the approach taken by the UK in this submission please refer to the following document:  
[http://jncc.defra.gov.uk/pdf/Natura2000\\_StandardDataForm\\_UKApproach\\_Dec2015.pdf](http://jncc.defra.gov.uk/pdf/Natura2000_StandardDataForm_UKApproach_Dec2015.pdf)

More general information on Special Protection Areas (SPAs) in the United Kingdom is available from the [SPA home page on the JNCC website](#). This webpage also provides links to Standard Data Forms for all SPAs in the UK.

Date form generated by the Joint Nature Conservation Committee  
25 January 2016.



# NATURA 2000 - STANDARD DATA FORM

For Special Protection Areas (SPA),  
Proposed Sites for Community Importance (pSCI),  
Sites of Community Importance (SCI) and  
for Special Areas of Conservation (SAC)

SITE UK9011011  
SITENAME Chichester and Langstone Harbours

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- [1. SITE IDENTIFICATION](#)
- [2. SITE LOCATION](#)
- [3. ECOLOGICAL INFORMATION](#)
- [4. SITE DESCRIPTION](#)
- [5. SITE PROTECTION STATUS AND RELATION WITH CORINE BIOTOPES](#)
- [6. SITE MANAGEMENT](#)

## 1. SITE IDENTIFICATION

<b>1.1 Type</b> A	<b>1.2 Site code</b> UK9011011	<a href="#">Back to top</a>
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### 1.3 Site name

Chichester and Langstone Harbours

<b>1.4 First Compilation date</b> 1987-10	<b>1.5 Update date</b> 2015-12
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### 1.6 Respondent:

**Name/Organisation:** Joint Nature Conservation Committee  
**Address:** Joint Nature Conservation Committee Monkstone House City Road Peterborough  
PE1 1JY  
**Email:**

### 1.7 Site indication and designation / classification dates

<b>Date site classified as SPA:</b>	1987-10
<b>National legal reference of SPA designation</b>	Regulations 12A and 13-15 of the Conservation Habitats and Species Regulations 2010, ( <a href="http://www.legislation.gov.uk/uksi/2010/490/contents/made">http://www.legislation.gov.uk/uksi/2010/490/contents/made</a> ) as amended by The Conservation of Habitats and Species (Amendment) Regulations 2011 ( <a href="http://www.legislation.gov.uk/uksi/2011/625/contents/made">http://www.legislation.gov.uk/uksi/2011/625/contents/made</a> ).

## 2. SITE LOCATION

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## 2.1 Site-centre location [decimal degrees]:

### Longitude

-0.92

### Latitude

50.80638889

## 2.2 Area [ha]:

5810.95

## 2.3 Marine area [%]

87.8

## 2.4 Sitelength [km]:

0.0

## 2.5 Administrative region code and name

### NUTS level 2 code

### Region Name

UKJ3	Hampshire and Isle of Wight
UKJ2	Surrey, East and West Sussex

## 2.6 Biogeographical Region(s)

Atlantic (100.0  
%)

## 3. ECOLOGICAL INFORMATION

### 3.2 Species referred to in Article 4 of Directive 2009/147/EC and listed in Annex II of Directive 92/43/EEC and site evaluation for them

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Species			Population in the site							Site assessment				
G	Code	Scientific Name	S	NP	T	Size		Unit	Cat.	D.qual.	A B C D	A B C		
						Min	Max				Pop.	Con.	Iso.	Glo.
B	A054	<a href="#">Anas acuta</a>			w	330	330	i		G	C		C	
B	A056	<a href="#">Anas clypeata</a>			w	100	100	i		G	C		C	
B	A052	<a href="#">Anas crecca</a>			w	1824	1824	i		G	C		C	
B	A050	<a href="#">Anas penelope</a>			w	2055	2055	i		G	C		C	
B	A169	<a href="#">Arenaria interpres</a>			w	430	430	i		G	C		C	
B	A675	<a href="#">Branta bernicla bernicla</a>			w	17119	17119	i		G	A		C	
B	A144	<a href="#">Calidris alba</a>			w	236	236	i		G	C		C	
B	A672	<a href="#">Calidris alpina alpina</a>			w	44294	44294	i		G	B		C	
B	A137	<a href="#">Charadrius hiaticula</a>			w	846	846	i		G	B		C	

B	A157	<a href="#">Limosa lapponica</a>			w	1692	1692	i		G	B		C	
B	A069	<a href="#">Mergus serrator</a>			w	297	297	i		G	B		C	
B	A160	<a href="#">Numenius arquata</a>			w	1861	1861	i		G	C		C	
B	A141	<a href="#">Pluvialis squatarola</a>			w	3825	3825	i		G	B		C	
B	A195	<a href="#">Sterna albifrons</a>			r	100	100	p		G	B		C	
B	A193	<a href="#">Sterna hirundo</a>			r	33	33	p		G	C		C	
B	A191	<a href="#">Sterna sandvicensis</a>			r	31	31	p		G	C		C	
B	A048	<a href="#">Tadorna tadorna</a>			w	2410	2410	i		G	B		C	
B	A162	<a href="#">Tringa totanus</a>			w	1788	1788	i		G	C		C	

- **Group:** A = Amphibians, B = Birds, F = Fish, I = Invertebrates, M = Mammals, P = Plants, R = Reptiles
- **S:** in case that the data on species are sensitive and therefore have to be blocked for any public access enter: yes
- **NP:** in case that a species is no longer present in the site enter: x (optional)
- **Type:** p = permanent, r = reproducing, c = concentration, w = wintering (for plant and non-migratory species use permanent)
- **Unit:** i = individuals, p = pairs or other units according to the Standard list of population units and codes in accordance with Article 12 and 17 reporting (see [reference portal](#))
- **Abundance categories (Cat.):** C = common, R = rare, V = very rare, P = present - to fill if data are deficient (DD) or in addition to population size information
- **Data quality:** G = 'Good' (e.g. based on surveys); M = 'Moderate' (e.g. based on partial data with some extrapolation); P = 'Poor' (e.g. rough estimation); VP = 'Very poor' (use this category only, if not even a rough estimation of the population size can be made, in this case the fields for population size can remain empty, but the field "Abundance categories" has to be filled in)

### 3.3 Other important species of flora and fauna (optional)

Species					Population in the site				Motivation					
Group	CODE	Scientific Name	S	NP	Size		Unit	Cat.	Species Annex		Other categories			
					Min	Max		C R V P	IV	V	A	B	C	D
B	WATR	<a href="#">Waterfowl assemblage</a>			93230	93230	i						X	

- **Group:** A = Amphibians, B = Birds, F = Fish, Fu = Fungi, I = Invertebrates, L = Lichens, M = Mammals, P = Plants, R = Reptiles
- **CODE:** for Birds, Annex IV and V species the code as provided in the reference portal should be used in addition to the scientific name
- **S:** in case that the data on species are sensitive and therefore have to be blocked for any public access enter: yes
- **NP:** in case that a species is no longer present in the site enter: x (optional)
- **Unit:** i = individuals, p = pairs or other units according to the standard list of population units and codes in accordance with Article 12 and 17 reporting, (see [reference portal](#))
- **Cat.:** Abundance categories: C = common, R = rare, V = very rare, P = present
- **Motivation categories:** **IV, V:** Annex Species (Habitats Directive), **A:** National Red List data; **B:** Endemics; **C:** International Conventions; **D:** other reasons

## 4. SITE DESCRIPTION

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### 4.1 General site character

Habitat class	% Cover
N02	63.0
N23	0.2
N16	0.8
N10	1.7
N07	0.5
N14	11.7
N03	21.5
N06	0.4
N04	0.3
N08	0.1
<b>Total Habitat Cover</b>	<b>100.2</b>

### Other Site Characteristics

1 Terrestrial: Soil & Geology: nutrient-rich, shingle, alluvium, sand, sedimentary, neutral, mud 2 Terrestrial: Geomorphology and landscape: coastal, lowland, floodplain 3 Marine: Geology: sand, clay, shingle, mud, sedimentary, gravel 4 Marine: Geomorphology: pools, lagoon, estuary, subtidal sediments (including sandbank/mudbank), enclosed coast (including embayment), islands, shingle bar, intertidal sediments (including sandflat/mudflat)

### 4.2 Quality and importance

ARTICLE 4.1 QUALIFICATION (79/409/EEC) During the breeding season the area regularly supports: *Sterna albifrons* (Eastern Atlantic - breeding) 4.2% of the GB breeding population 5 year mean, 1992-1996 *Sterna hirundo* (Northern/Eastern Europe - breeding) 0.3% of the GB breeding population 5 year mean, 1992-1996 *Sterna sandvicensis* (Western Europe/Western Africa) 0.2% of the GB breeding population 5 year mean, 1993-1997 Over winter the area regularly supports: *Limosa lapponica* (Western Palearctic - wintering) 3.2% of the GB population 5 year peak mean 1991/92-1995/96 ARTICLE 4.2 QUALIFICATION (79/409/EEC) Over winter the area regularly supports: *Anas acuta* (North-western Europe) 1.2% of the population in Great Britain 5 year peak mean 1991/92-1995/96 *Anas clypeata* (North-western/Central Europe) 1% of the population in Great Britain 5 year peak mean 1991/92-1995/96 *Anas crecca* (North-western Europe) 0.5% of the population 5 year peak mean 1991/92-1995/96 *Anas penelope* (Western Siberia/North-western/North-eastern Europe) 0.7% of the population in Great Britain 5 year peak mean 1991/92-1995/96 *Arenaria interpres* (Western Palearctic - wintering) 0.7% of the population in Great Britain 5 year peak mean 1991/92-1995/96 *Branta bernicla bernicla* (Western Siberia/Western Europe) 5.7% of the population 5 year peak mean 1991/92-1995/96 *Calidris alba* (Eastern Atlantic/Western & Southern Africa - wintering) 0.2% of the population 5 year peak mean 1991/92-1995/96 *Calidris alpina alpina* (Northern Siberia/Europe/Western Africa) 3.2% of the population 5 year peak mean 1991/92-1995/96 *Charadrius hiaticula* (Europe/Northern Africa - wintering) 3% of the population in Great Britain 5 year peak mean 1991/92-1995/96 *Mergus serrator* (North-western/Central Europe) 3% of the population in Great Britain 5 year peak mean 1991/92-1995/96 *Numenius arquata* (Europe - breeding) 1.6% of the population in Great Britain 5 year peak mean 1991/92-1995/96 *Pluvialis squatarola* (Eastern Atlantic - wintering) 2.3% of the population 5 year peak mean 1991/92-1995/96 *Tadorna tadorna* (North-western Europe) 3.3% of the population in Great Britain 5 year peak mean 1991/92-1995/96 *Tringa totanus* (Eastern Atlantic - wintering) 1% of the population 5 year peak mean 1991/92-1995/96 ARTICLE 4.2 QUALIFICATION (79/409/EEC): AN INTERNATIONALLY IMPORTANT ASSEMBLAGE OF BIRDS Over winter the area regularly supports: 93230 waterfowl (5 year peak mean 1991/92-1995/96) Including: *Branta bernicla bernicla*, *Tadorna tadorna*, *Anas penelope*, *Anas crecca*, *Anas acuta*, *Anas clypeata*, *Mergus serrator*, *Charadrius hiaticula*, *Pluvialis squatarola*, *Calidris alba*, *Calidris alpina alpina*, *Limosa lapponica*, *Numenius arquata*, *Tringa totanus*, *Arenaria interpres*

### 4.3 Threats, pressures and activities with impacts on the site



The most important impacts and activities with high effect on the site

Negative Impacts			
Rank	Threats and pressures [code]	Pollution (optional) [code]	inside/outside [i o b]
H	H02		B
H	M01		B
H	M02		B
H	F02		I
H	G01		I

Positive Impacts			
Rank	Activities, management [code]	Pollution (optional) [code]	inside/outside [i o b]
H	B02		I
H	D05		I
H	A02		I
H	A04		I

Rank: H = high, M = medium, L = low

Pollution: N = Nitrogen input, P = Phosphor/Phosphate input, A = Acid input/acidification,

T = toxic inorganic chemicals, O = toxic organic chemicals, X = Mixed pollutions

i = inside, o = outside, b = both

#### 4.5 Documentation

Conservation Objectives - the Natural England links below provide access to the Conservation Objectives (and other site-related information) for its terrestrial and inshore Natura 2000 sites, including conservation advice packages and supporting documents for European Marine Sites within English waters and for cross-border sites. See also the 'UK Approach' document for more information (link via the JNCC website).

Link(s): [http://jncc.defra.gov.uk/pdf/Natura2000\\_StandardDataForm\\_UKApproach\\_Dec2015.pdf](http://jncc.defra.gov.uk/pdf/Natura2000_StandardDataForm_UKApproach_Dec2015.pdf)

<http://publications.naturalengland.org.uk/category/3212324>

<http://publications.naturalengland.org.uk/category/6490068894089216>

## 5. SITE PROTECTION STATUS (optional)

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### 5.1 Designation types at national and regional level:

Code	Cover [%]	Code	Cover [%]	Code	Cover [%]
UK04	100.0				

## 6. SITE MANAGEMENT

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### 6.1 Body(ies) responsible for the site management:

Organisation:	<u>Natural England</u>
Address:	_____
Email:	_____

### 6.2 Management Plan(s):

An actual management plan does exist:

<input type="checkbox"/>	Yes
<input type="checkbox"/>	No, but in preparation
<input checked="" type="checkbox"/>	No

### 6.3 Conservation measures (optional)

--

For available information, including on Conservation Objectives, see Section 4.5.

## EXPLANATION OF CODES USED IN THE NATURA 2000 STANDARD DATA FORMS

The codes in the table below are also explained in the [official European Union guidelines for the Standard Data Form](#). The relevant page is shown in the table below.

### 1.1 Site type

CODE	DESCRIPTION	PAGE NO
A	Designated Special Protection Area	53
B	SAC (includes candidates Special Areas of Conservation, Sites of Community Importance and designated SAC)	53
C	SAC area the same as SPA. Note in the UK Natura 2000 submission this is only used for Gibraltar	53

### 3.1 Habitat representativity

CODE	DESCRIPTION	PAGE NO
A	Excellent	57
B	Good	57
C	Significant	57
D	Non-significant presence	57

### 3.1 Habitat code

CODE	DESCRIPTION	PAGE NO
1110	Sandbanks which are slightly covered by sea water all the time	57
1130	Estuaries	57
1140	Mudflats and sandflats not covered by seawater at low tide	57
1150	Coastal lagoons	57
1160	Large shallow inlets and bays	57
1170	Reefs	57
1180	Submarine structures made by leaking gases	57
1210	Annual vegetation of drift lines	57
1220	Perennial vegetation of stony banks	57
1230	Vegetated sea cliffs of the Atlantic and Baltic Coasts	57
1310	Salicornia and other annuals colonizing mud and sand	57
1320	Spartina swards ( <i>Spartinion maritimae</i> )	57
1330	Atlantic salt meadows ( <i>Glauco-Puccinellietalia maritimae</i> )	57
1340	Inland salt meadows	57
1420	Mediterranean and thermo-Atlantic halophilous scrubs ( <i>Sarcocornetea fruticosi</i> )	57
2110	Embryonic shifting dunes	57
2120	Shifting dunes along the shoreline with <i>Ammophila arenaria</i> ("white dunes")	57
2130	Fixed coastal dunes with herbaceous vegetation ("grey dunes")	57
2140	Decalcified fixed dunes with <i>Empetrum nigrum</i>	57
2150	Atlantic decalcified fixed dunes ( <i>Calluno-Ulicetea</i> )	57
2160	Dunes with <i>Hippophaë rhamnoides</i>	57
2170	Dunes with <i>Salix repens</i> ssp. <i>argentea</i> ( <i>Salicion arenariae</i> )	57
2190	Humid dune slacks	57
21A0	Machairs (* in Ireland)	57
2250	Coastal dunes with <i>Juniperus</i> spp.	57
2330	Inland dunes with open <i>Corynephorus</i> and <i>Agrostis</i> grasslands	57
3110	Oligotrophic waters containing very few minerals of sandy plains ( <i>Littorelletalia uniflorae</i> )	57
3130	Oligotrophic to mesotrophic standing waters with vegetation of the <i>Littorelletea uniflorae</i> and/or of the <i>Isoëto-Nanojuncetea</i>	57
3140	Hard oligo-mesotrophic waters with benthic vegetation of <i>Chara</i> spp.	57
3150	Natural eutrophic lakes with <i>Magnopotamion</i> or <i>Hydrocharition</i> - type vegetation	57

CODE	DESCRIPTION	PAGE NO
3160	Natural dystrophic lakes and ponds	57
3170	Mediterranean temporary ponds	57
3180	Turloughs	57
3260	Water courses of plain to montane levels with the Ranunculion fluitantis and Callitriche-Batrachion vegetation	57
4010	Northern Atlantic wet heaths with Erica tetralix	57
4020	Temperate Atlantic wet heaths with Erica ciliaris and Erica tetralix	57
4030	European dry heaths	57
4040	Dry Atlantic coastal heaths with Erica vagans	57
4060	Alpine and Boreal heaths	57
4080	Sub-Arctic Salix spp. scrub	57
5110	Stable xerothermophilous formations with Buxus sempervirens on rock slopes (Berberidion p.p.)	57
5130	Juniperus communis formations on heaths or calcareous grasslands	57
6130	Calaminarian grasslands of the Violetalia calaminariae	57
6150	Siliceous alpine and boreal grasslands	57
6170	Alpine and subalpine calcareous grasslands	57
6210	Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia) (* important orchid sites)	57
6230	Species-rich Nardus grasslands, on silicious substrates in mountain areas (and submountain areas in Continental Europe)	57
6410	Molinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinion caeruleae)	57
6430	Hydrophilous tall herb fringe communities of plains and of the montane to alpine levels	57
6510	Lowland hay meadows (Alopecurus pratensis, Sanguisorba officinalis)	57
6520	Mountain hay meadows	57
7110	Active raised bogs	57
7120	Degraded raised bogs still capable of natural regeneration	57
7130	Blanket bogs (* if active bog)	57
7140	Transition mires and quaking bogs	57
7150	Depressions on peat substrates of the Rhynchosporion	57
7210	Calcareous fens with Cladium mariscus and species of the Caricion davallianae	57
7220	Petrifying springs with tufa formation (Cratoneurion)	57
7230	Alkaline fens	57
7240	Alpine pioneer formations of the Caricion bicoloris-atrofuscae	57
8110	Siliceous scree of the montane to snow levels (Androsacetalia alpinae and Galeopsietalia ladani)	57
8120	Calcareous and calcshist screes of the montane to alpine levels (Thlaspietea rotundifolii)	57
8210	Calcareous rocky slopes with chasmophytic vegetation	57
8220	Siliceous rocky slopes with chasmophytic vegetation	57
8240	Limestone pavements	57
8310	Caves not open to the public	57
8330	Submerged or partially submerged sea caves	57
9120	Atlantic acidophilous beech forests with Ilex and sometimes also Taxus in the shrublayer (Quercion robori-petraeae or Ilici-Fagenion)	57
9130	Asperulo-Fagetum beech forests	57
9160	Sub-Atlantic and medio-European oak or oak-hornbeam forests of the Carpinion betuli	57
9180	Tilio-Acerion forests of slopes, screes and ravines	57
9190	Old acidophilous oak woods with Quercus robur on sandy plains	57
91A0	Old sessile oak woods with Ilex and Blechnum in the British Isles	57
91C0	Caledonian forest	57
91D0	Bog woodland	57
91E0	Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno-Padion, Alnion incanae, Salicion albae)	57
91J0	Taxus baccata woods of the British Isles	57

### 3.1 Relative surface

CODE	DESCRIPTION	PAGE NO
A	15%-100%	58
B	2%-15%	58
C	< 2%	58

### 3.1 Conservation status habitat

CODE	DESCRIPTION	PAGE NO
A	Excellent conservation	59
B	Good conservation	59
C	Average or reduced conservation	59

### 3.1 Global grade habitat

CODE	DESCRIPTION	PAGE NO
A	Excellent value	59
B	Good value	59
C	Significant value	59

### 3.2 Population (abbreviated to 'Pop.' in data form)

CODE	DESCRIPTION	PAGE NO
A	15%-100%	62
B	2%-15%	62
C	< 2%	62
D	Non-significant population	62

### 3.2 Conservation status species (abbreviated to 'Con.' in data form)

CODE	DESCRIPTION	PAGE NO
A	Excellent conservation	63
B	Good conservation	63
C	Average or reduced conservation	63

### 3.2 Isolation (abbreviated to 'Iso.' in data form)

CODE	DESCRIPTION	PAGE NO
A	Population (almost) Isolated	63
B	Population not-isolated, but on margins of area of distribution	63
C	Population not-isolated within extended distribution range	63

### 3.2 Global Grade (abbreviated to 'Glo.' Or 'G.' in data form)

CODE	DESCRIPTION	PAGE NO
A	Excellent value	63
B	Good value	63
C	Significant value	63

### 3.3 Assemblages types

CODE	DESCRIPTION	PAGE NO
WATR	Non breeding waterfowl assemblage	UK specific code
SBA	Breeding seabird assemblage	UK specific code
BBA	Breeding bird assemblage (applies only to sites classified pre 2000)	UK specific code

#### 4.1 Habitat class code

CODE	DESCRIPTION	PAGE NO
N01	Marine areas, Sea inlets	65
N02	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins)	65
N03	Salt marshes, Salt pastures, Salt steppes	65
N04	Coastal sand dunes, Sand beaches, Machair	65
N05	Shingle, Sea cliffs, Islets	65
N06	Inland water bodies (Standing water, Running water)	65
N07	Bogs, Marshes, Water fringed vegetation, Fens	65
N08	Heath, Scrub, Maquis and Garrigue, Phygrana	65
N09	Dry grassland, Steppes	65
N10	Humid grassland, Mesophile grassland	65
N11	Alpine and sub-Alpine grassland	65
N14	Improved grassland	65
N15	Other arable land	65
N16	Broad-leaved deciduous woodland	65
N17	Coniferous woodland	65
N19	Mixed woodland	65
N21	Non-forest areas cultivated with woody plants (including Orchards, groves, Vineyards, Dehesas)	65
N22	Inland rocks, Screes, Sands, Permanent Snow and ice	65
N23	Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	65
N25	Grassland and scrub habitats (general)	65
N26	Woodland habitats (general)	65

#### 4.3 Threats code

CODE	DESCRIPTION	PAGE NO
A01	Cultivation	65
A02	Modification of cultivation practices	65
A03	Mowing / cutting of grassland	65
A04	Grazing	65
A05	Livestock farming and animal breeding (without grazing)	65
A06	Annual and perennial non-timber crops	65
A07	Use of biocides, hormones and chemicals	65
A08	Fertilisation	65
A10	Restructuring agricultural land holding	65
A11	Agriculture activities not referred to above	65
B01	Forest planting on open ground	65
B02	Forest and Plantation management & use	65
B03	Forest exploitation without replanting or natural regrowth	65
B04	Use of biocides, hormones and chemicals (forestry)	65
B06	Grazing in forests/ woodland	65
B07	Forestry activities not referred to above	65
C01	Mining and quarrying	65
C02	Exploration and extraction of oil or gas	65
C03	Renewable abiotic energy use	65
D01	Roads, paths and railroads	65
D02	Utility and service lines	65
D03	Shipping lanes, ports, marine constructions	65
D04	Airports, flightpaths	65
D05	Improved access to site	65
E01	Urbanised areas, human habitation	65
E02	Industrial or commercial areas	65

CODE	DESCRIPTION	PAGE NO
E03	Discharges	65
E04	Structures, buildings in the landscape	65
E06	Other urbanisation, industrial and similar activities	65
F01	Marine and Freshwater Aquaculture	65
F02	Fishing and harvesting aquatic resources	65
F03	Hunting and collection of wild animals (terrestrial), including damage caused by game (excessive density), and taking/removal of terrestrial animals (including collection of insects, reptiles, amphibians, birds of prey, etc., trapping, poisoning, poaching, predator control, accidental capture (e.g. due to fishing gear), etc.)	65
F04	Taking / Removal of terrestrial plants, general	65
F05	Illegal taking/ removal of marine fauna	65
F06	Hunting, fishing or collecting activities not referred to above	65
G01	Outdoor sports and leisure activities, recreational activities	65
G02	Sport and leisure structures	65
G03	Interpretative centres	65
G04	Military use and civil unrest	65
G05	Other human intrusions and disturbances	65
H01	Pollution to surface waters (limnic & terrestrial, marine & brackish)	65
H02	Pollution to groundwater (point sources and diffuse sources)	65
H03	Marine water pollution	65
H04	Air pollution, air-borne pollutants	65
H05	Soil pollution and solid waste (excluding discharges)	65
H06	Excess energy	65
H07	Other forms of pollution	65
I01	Invasive non-native species	65
I02	Problematic native species	65
I03	Introduced genetic material, GMO	65
J01	Fire and fire suppression	65
J02	Human induced changes in hydraulic conditions	65
J03	Other ecosystem modifications	65
K01	Abiotic (slow) natural processes	65
K02	Biocenotic evolution, succession	65
K03	Interspecific faunal relations	65
K04	Interspecific floral relations	65
K05	Reduced fecundity/ genetic depression	65
L05	Collapse of terrain, landslide	65
L07	Storm, cyclone	65
L08	Inundation (natural processes)	65
L10	Other natural catastrophes	65
M01	Changes in abiotic conditions	65
M02	Changes in biotic conditions	65
U	Unknown threat or pressure	65
XO	Threats and pressures from outside the Member State	65

### 5.1 Designation type codes

CODE	DESCRIPTION	PAGE NO
UK00	No Protection Status	67
UK01	National Nature Reserve	67
UK02	Marine Nature Reserve	67
UK04	Site of Special Scientific Interest (UK)	67

# Information Sheet on Ramsar Wetlands (RIS)

*Categories approved by Recommendation 4.7 (1990), as amended by Resolution VIII.13 of the 8<sup>th</sup> Conference of the Contracting Parties (2002) and Resolutions IX.1 Annex B, IX.6, IX.21 and IX. 22 of the 9<sup>th</sup> Conference of the Contracting Parties (2005).*

Notes for compilers:

1. The RIS should be completed in accordance with the attached *Explanatory Notes and Guidelines for completing the Information Sheet on Ramsar Wetlands*. Compilers are strongly advised to read this guidance before filling in the RIS.
2. Further information and guidance in support of Ramsar site designations are provided in the *Strategic Framework for the future development of the List of Wetlands of International Importance* (Ramsar Wise Use Handbook 7, 2nd edition, as amended by COP9 Resolution IX.1 Annex B). A 3rd edition of the Handbook, incorporating these amendments, is in preparation and will be available in 2006.
3. Once completed, the RIS (and accompanying map(s)) should be submitted to the Ramsar Secretariat. Compilers should provide an electronic (MS Word) copy of the RIS and, where possible, digital copies of all maps.

## 1. Name and address of the compiler of this form:

**Joint Nature Conservation Committee**  
 Monkstone House  
 City Road  
 Peterborough  
 Cambridgeshire PE1 1JY  
 UK  
 Telephone/Fax: +44 (0)1733 – 562 626 / +44 (0)1733 – 555 948  
 Email: [RIS@JNCC.gov.uk](mailto:RIS@JNCC.gov.uk)

FOR OFFICE USE ONLY.

DD MM YY

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Designation date

--	--	--	--	--	--	--	--

Site Reference Number

## 2. Date this sheet was completed/updated:

Designated: 28 October 1987

## 3. Country:

UK (England)

## 4. Name of the Ramsar site:

Chichester and Langstone Harbours

## 5. Designation of new Ramsar site or update of existing site:

**This RIS is for:** Updated information on an existing Ramsar site

## 6. For RIS updates only, changes to the site since its designation or earlier update:

### a) Site boundary and area:

\*\* Important note: If the boundary and/or area of the designated site is being restricted/reduced, the Contracting Party should have followed the procedures established by the Conference of the Parties in the Annex to COP9 Resolution IX.6 and provided a report in line with paragraph 28 of that Annex, prior to the submission of an updated RIS.

### b) Describe briefly any major changes to the ecological character of the Ramsar site, including in the application of the Criteria, since the previous RIS for the site:



**7. Map of site included:**

Refer to Annex III of the *Explanatory Notes and Guidelines*, for detailed guidance on provision of suitable maps, including digital maps.

a) A map of the site, with clearly delineated boundaries, is included as:

- i) **hard copy** (required for inclusion of site in the Ramsar List): *yes* ✓ -or- *no* ;
- ii) **an electronic format** (e.g. a JPEG or ArcView image) *Yes*
- iii) **a GIS file providing geo-referenced site boundary vectors and attribute tables** *yes* ✓ -or- *no* ;

b) **Describe briefly the type of boundary delineation applied:**

e.g. the boundary is the same as an existing protected area (nature reserve, national park etc.), or follows a catchment boundary, or follows a geopolitical boundary such as a local government jurisdiction, follows physical boundaries such as roads, follows the shoreline of a waterbody, etc.

The site boundary is the same as, or falls within, an existing protected area.

For precise boundary details, please refer to paper map provided at designation

**8. Geographical coordinates (latitude/longitude):**

50 48 23 N                      00 55 12 W

**9. General location:**

Include in which part of the country and which large administrative region(s), and the location of the nearest large town.

Nearest town/city: Portsmouth

The site lies on the central south coast of mainland England, approximately 1 km east of Portsmouth.

**Administrative region:** Hampshire; West Sussex

**10. Elevation (average and/or max. & min.) (metres):    11. Area (hectares): 5810.03**

Min.	-2
Max.	4
Mean	0

**12. General overview of the site:**

Provide a short paragraph giving a summary description of the principal ecological characteristics and importance of the wetland.

Chichester and Langstone Harbours are large, sheltered estuarine basins comprising extensive mud and sand flats exposed at low tide. The site is of particular significance for over-wintering wildfowl and waders and also a wide range of coastal and transitional habitats supporting important plant and animal communities.

**13. Ramsar Criteria:**

Circle or underline each Criterion applied to the designation of the Ramsar site. See Annex II of the *Explanatory Notes and Guidelines* for the Criteria and guidelines for their application (adopted by Resolution VII.11).

**1, 5, 6**

**14. Justification for the application of each Criterion listed in 13 above:**

Provide justification for each Criterion in turn, clearly identifying to which Criterion the justification applies (see Annex II for guidance on acceptable forms of justification).

Ramsar criterion 1

Two large estuarine basins linked by the channel which divides Hayling Island from the main Hampshire coastline. The site includes intertidal mudflats, saltmarsh, sand and shingle spits and sand dunes.

Ramsar criterion 5

**Assemblages of international importance:**

**Species with peak counts in winter:**

76480 waterfowl (5 year peak mean 1998/99-2002/2003)

**Ramsar criterion 6 – species/populations occurring at levels of international importance.**

**Qualifying Species/populations (as identified at designation):**

**Species with peak counts in spring/autumn:**

Ringed plover , <i>Charadrius hiaticula</i> , Europe/Northwest Africa	853 individuals, representing an average of 1.1% of the population (5 year peak mean 1998/9-2002/3)
Black-tailed godwit , <i>Limosa limosa islandica</i> , Iceland/W Europe	906 individuals, representing an average of 2.5% of the population (5 year peak mean 1998/9-2002/3)
Common redshank , <i>Tringa totanus totanus</i> ,	2577 individuals, representing an average of 1% of the population (5 year peak mean 1998/9-2002/3)

**Species with peak counts in winter:**

Dark-bellied brent goose, <i>Branta bernicla bernicla</i> ,	12987 individuals, representing an average of 6% of the population (5 year peak mean 1998/9-2002/3)
Common shelduck , <i>Tadorna tadorna</i> , NW Europe	1468 individuals, representing an average of 1.8% of the GB population (5 year peak mean 1998/9-2002/3)
Grey plover , <i>Pluvialis squatarola</i> , E Atlantic/W Africa -wintering	3043 individuals, representing an average of 1.2% of the population (5 year peak mean 1998/9-2002/3)
Dunlin , <i>Calidris alpina alpina</i> , W Siberia/W Europe	33436 individuals, representing an average of 2.5% of the population (5 year peak mean 1998/9-2002/3)

**Species/populations identified subsequent to designation for possible future consideration under criterion 6.**

**Species regularly supported during the breeding season:**

Little tern , <i>Sterna albifrons albifrons</i> , W Europe	130 apparently occupied nests, representing an average of 1.1% of the breeding population (Seabird 2000 Census)
---	---

Contemporary data and information on waterbird trends at this site and their regional (sub-national) and national contexts can be found in the Wetland Bird Survey report, which is updated annually. See [www.bto.org/survey/webs/webs-alerts-index.htm](http://www.bto.org/survey/webs/webs-alerts-index.htm).

Details of bird species occurring at levels of National importance are given in Section 22

**15. Biogeography** (required when Criteria 1 and/or 3 and /or certain applications of Criterion 2 are applied to the designation):

Name the relevant biogeographic region that includes the Ramsar site, and identify the biogeographic regionalisation system that has been applied.

**a) biogeographic region:**

Atlantic

**b) biogeographic regionalisation scheme** (include reference citation):

Council Directive 92/43/EEC

**16. Physical features of the site:**

Describe, as appropriate, the geology, geomorphology; origins - natural or artificial; hydrology; soil type; water quality; water depth, water permanence; fluctuations in water level; tidal variations; downstream area; general climate, etc.

Soil & geology	neutral, shingle, sand, mud, alluvium, nutrient-rich, sedimentary, clay, gravel
Geomorphology and landscape	lowland, coastal, floodplain, shingle bar, subtidal sediments (including sandbank/mudbank), intertidal sediments (including sandflat/mudflat), enclosed coast (including embayment), estuary, islands, lagoon, pools
Nutrient status	eutrophic, mesotrophic
pH	circumneutral
Salinity	brackish / mixosaline, saline / euhaline
Soil	mainly mineral
Water permanence	usually permanent
Summary of main climatic features	Annual averages (Bognor Regis, 1971–2000) ( <a href="http://www.metoffice.com/climate/uk/averages/19712000/sites/bognor_regis.html">www.metoffice.com/climate/uk/averages/19712000/sites/bognor_regis.html</a> ) Max. daily temperature: 13.7° C Min. daily temperature: 7.7° C Days of air frost: 24.0 Rainfall: 717.4 mm Hrs. of sunshine: 1902.9

**General description of the Physical Features:**

Chichester and Langstone Harbours are large, sheltered estuarine basins comprising extensive sand- and mud-flats exposed at low tide. The two harbours are joined by a stretch of water that separates Hayling Island from the mainland. Tidal channels drain the basin and penetrate far inland. The basin contains a wide range of coastal habitats.

**17. Physical features of the catchment area:**

Describe the surface area, general geology and geomorphological features, general soil types, general land use, and climate (including climate type).

Chichester and Langstone Harbours are large, sheltered estuarine basins comprising extensive sand- and mud-flats exposed at low tide. The two harbours are joined by a stretch of water that separates Hayling Island from the mainland. Tidal channels drain the basin and penetrate far inland.

**18. Hydrological values:**

Describe the functions and values of the wetland in groundwater recharge, flood control, sediment trapping, shoreline stabilization, etc.

Shoreline stabilisation and dissipation of erosive forces, Sediment trapping, Maintenance of water quality (removal of nutrients)

**19. Wetland types:**

Marine/coastal wetland

Code	Name	% Area
G	Tidal flats	46
H	Salt marshes	21.4
Other	Other	14.3
F	Estuarine waters	14.1
B	Marine beds (e.g. sea grass beds)	1.7
Ts	Freshwater marshes / pools: seasonal / intermittent	0.9
E	Sand / shingle shores (including dune systems)	0.8
Tp	Freshwater marshes / pools: permanent	0.4
Sp	Saline / brackish marshes: permanent	0.3
W	Shrub-dominated wetlands	0.07
M	Rivers / streams / creeks: permanent	0.02
J	Coastal brackish / saline lagoons	0.01

**20. General ecological features:**

Provide further description, as appropriate, of the main habitats, vegetation types, plant and animal communities present in the Ramsar site, and the ecosystem services of the site and the benefits derived from them.

The site comprises two large, interconnected sheltered estuarine basins providing extensive intertidal mud and sand flats with eelgrass *Zostera* spp. beds, large areas of mixed saltmarsh and extensive cord-grass *Spartina* spp. swards in an advanced state of degeneration. Fringing habitats include shingle spits, saline, brackish and freshwater lagoons, coastal grazing marsh and deciduous woodland. The site supports important overwintering populations of migratory waterfowl.

Ecosystem services

**21. Noteworthy flora:**

Provide additional information on particular species and why they are noteworthy (expanding as necessary on information provided in 12. Justification for the application of the Criteria) indicating, e.g. which species/communities are unique, rare, endangered or biogeographically important, etc. *Do not include here taxonomic lists of species present – these may be supplied as supplementary information to the RIS.*

**Nationally important species occurring on the site.**

Higher plants.

*Polypogon monspeliensis, Zostera angustifolia, Zostera marina, Zostera noltei*

**22. Noteworthy fauna:**

Provide additional information on particular species and why they are noteworthy (expanding as necessary on information provided in 12. Justification for the application of the Criteria) indicating, e.g. which species/communities are unique, rare, endangered or biogeographically important, etc., including count data. *Do not include here taxonomic lists of species present – these may be supplied as supplementary information to the RIS.*

**Birds****Species currently occurring at levels of national importance:****Species regularly supported during the breeding season:**

Mediterranean gull , <i>Larus melanocephalus</i> , Europe	47 apparently occupied nests, representing an average of 43.5% of the GB population (Seabird 2000 Census)
Black-headed gull , <i>Larus ridibundus</i> , N & C Europe	3180 apparently occupied nests, representing an average of 2.4% of the GB population (Seabird 2000 Census)

Common tern , <i>Sterna hirundo hirundo</i> , N & E Europe	127 apparently occupied nests, representing an average of 1.2% of the GB population (Seabird 2000 Census)
<b>Species with peak counts in spring/autumn:</b>	
Little egret , <i>Egretta garzetta</i> , West Mediterranean	224 individuals, representing an average of 13.5% of the GB population (5 year peak mean 1998/9-2002/3)
Eurasian oystercatcher , <i>Haematopus ostralegus ostralegus</i> , Europe & NW Africa -wintering	3403 individuals, representing an average of 1% of the GB population (5 year peak mean 1998/9-2002/3)
Whimbrel , <i>Numenius phaeopus</i> , Europe/Western Africa	192 individuals, representing an average of 6.4% of the GB population (5 year peak mean 1998/9-2002/3 - spring peak)
Eurasian curlew , <i>Numenius arquata arquata</i> , N. a. <i>arquata</i> Europe (breeding)	3108 individuals, representing an average of 2.1% of the GB population (5 year peak mean 1998/9-2002/3)
Spotted redshank , <i>Tringa erythropus</i> , Europe/W Africa	6 individuals, representing an average of 4.4% of the GB population (5 year peak mean 1998/9-2002/3)
Common greenshank , <i>Tringa nebularia</i> , Europe/W Africa	215 individuals, representing an average of 36% of the GB population (5 year peak mean 1998/9-2002/3)
Ruddy turnstone , <i>Arenaria interpres interpres</i> , NE Canada, Greenland/W Europe & NW Africa	569 individuals, representing an average of 1.1% of the GB population (5 year peak mean 1998/9-2002/3)
<b>Species with peak counts in winter:</b>	
Little grebe , <i>Tachybaptus ruficollis ruficollis</i> , Europe to E Urals, NW Africa	131 individuals, representing an average of 1.6% of the GB population (5 year peak mean 1998/9-2002/3)
Black-necked grebe , <i>Podiceps nigricollis nigricollis</i> , Europe, N Africa	14 individuals, representing an average of 11.6% of the GB population (5 year peak mean 1998/9-2002/3)
Great bittern , <i>Botaurus stellaris stellaris</i> , W Europe, NW Africa	1 individuals, representing an average of 1% of the GB population (5 year peak mean 1998/9-2002/3)
Eurasian teal , <i>Anas crecca</i> , NW Europe	2226 individuals, representing an average of 1.1% of the GB population (5 year peak mean 1998/9-2002/3)
Red-breasted merganser , <i>Mergus serrator</i> , NW & C Europe	306 individuals, representing an average of 3.1% of the GB population (5 year peak mean 1998/9-2002/3)
Water rail , <i>Rallus aquaticus</i> , Europe	12 individuals, representing an average of 2.6% of the GB population (5 year peak mean 1998/9-2002/3)
Bar-tailed godwit , <i>Limosa lapponica lapponica</i> , W Palearctic	1189 individuals, representing an average of 1.9% of the GB population (5 year peak mean 1998/9-2002/3)

### Species Information

17 British Red Data Book species and 84 nationally scarce species have been recorded from Chichester and Langstone Harbours Ramsar site.

**23. Social and cultural values:**

Describe if the site has any general social and/or cultural values e.g. fisheries production, forestry, religious importance, archaeological sites, social relations with the wetland, etc. Distinguish between historical/archaeological/religious significance and current socio-economic values.

Aesthetic  
 Aquatic vegetation (e.g. reeds, willows, seaweed)  
 Archaeological/historical site  
 Environmental education/ interpretation  
 Fisheries production  
 Livestock grazing  
 Non-consumptive recreation  
 Scientific research  
 Sport fishing  
 Sport hunting  
 Subsistence fishing  
 Tourism  
 Traditional cultural  
 Transportation/navigation

**b)** Is the site considered of international importance for holding, in addition to relevant ecological values, examples of significant cultural values, whether material or non-material, linked to its origin, conservation and/or ecological functioning? No

If Yes, describe this importance under one or more of the following categories:

- i) sites which provide a model of wetland wise use, demonstrating the application of traditional knowledge and methods of management and use that maintain the ecological character of the wetland:
- ii) sites which have exceptional cultural traditions or records of former civilizations that have influenced the ecological character of the wetland:
- iii) sites where the ecological character of the wetland depends on the interaction with local communities or indigenous peoples:
- iv) sites where relevant non-material values such as sacred sites are present and their existence is strongly linked with the maintenance of the ecological character of the wetland:

**24. Land tenure/ownership:**

Ownership category	On-site	Off-site
Non-governmental organisation (NGO)	+	+
Local authority, municipality etc.	+	+
National/Crown Estate	+	+
Private	+	+
Public/communal	+	+

**25. Current land (including water) use:**

Activity	On-site	Off-site
Nature conservation	+	+
Tourism	+	+
Recreation	+	+
Current scientific research	+	

Cutting of vegetation (small-scale/subsistence)		+
Fishing: commercial	+	+
Fishing: recreational/sport	+	+
Marine/saltwater aquaculture	+	
Gathering of shellfish	+	
Bait collection	+	
Arable agriculture (unspecified)		+
Permanent arable agriculture		+
Livestock watering hole/pond	+	
Permanent pastoral agriculture	+	
Hay meadows	+	+
Hunting: recreational/sport	+	+
Industry	+	+
Sewage treatment/disposal	+	+
Harbour/port	+	+
Flood control	+	+
Irrigation (incl. agricultural water supply)		+
Mineral exploration (excl. hydrocarbons)		+
Transport route	+	+
Domestic water supply		+
Urban development		+
Non-urbanised settlements	+	+
Military activities	+	+
Horticulture (incl. market gardening)		+

**26. Factors (past, present or potential) adversely affecting the site’s ecological character, including changes in land (including water) use and development projects:**

*Explanation of reporting category:*

1. Those factors that are still operating, but it is unclear if they are under control, as there is a lag in showing the management or regulatory regime to be successful.
2. Those factors that are not currently being managed, or where the regulatory regime appears to have been ineffective so far.

NA = Not Applicable because no factors have been reported.

Adverse Factor Category	Reporting Category	Description of the problem (Newly reported Factors only)	On-Site	Off-Site	Major Impact?
Erosion	2		+		+
Eutrophication	1		+		+
Pollution – domestic sewage	1			+	

For category 2 factors only.

What measures have been taken / are planned / regulatory processes invoked, to mitigate the effect of these factors?  
Erosion - Coastal Defence Strategies, regulation of private coastal defences, shoreline management plans are in place or are being developed.

Some larger-scale saltmarsh re-creation projects, beneficial usage of maintenance dredgings and managed realignment scheme to offset losses to coastal squeeze have been proposed. CHaMPs identify potential areas suitable for managed realignment.

Is the site subject to adverse ecological change? YES

### 27. Conservation measures taken:

List national category and legal status of protected areas, including boundary relationships with the Ramsar site; management practices; whether an officially approved management plan exists and whether it is being implemented.

Conservation measure	On-site	Off-site
Site/ Area of Special Scientific Interest (SSSI/ASSI)	+	+
Special Protection Area (SPA)	+	
Land owned by a non-governmental organisation for nature conservation	+	
Management agreement	+	+
Site management statement/plan implemented	+	
Area of Outstanding National Beauty (AONB)	+	+
Special Area of Conservation (SAC)	+	

#### b) Describe any other current management practices:

The management of Ramsar sites in the UK is determined by either a formal management plan or through other management planning processes, and is overseen by the relevant statutory conservation agency. Details of the precise management practises are given in these documents.

### 28. Conservation measures proposed but not yet implemented:

e.g. management plan in preparation; official proposal as a legally protected area, etc.

No information available

### 29. Current scientific research and facilities:

e.g. details of current research projects, including biodiversity monitoring; existence of a field research station, etc.

#### Contemporary.

##### Fauna.

Numbers of migratory and wintering wildfowl and waders are monitored annually as part of the national Wetland Birds Survey (WeBS) organised by the British Trust for Ornithology, Wildfowl & Wetlands Trust, the Royal Society for the Protection of Birds and the Joint Nature Conservation Committee.

Bird Ringing by Solent Shorebirds Study Group.

##### Environment.

Coastal Sediment (SCOPAC)

Water Quality/Eutrophication (EA/Southern Water).

Various research and educational establishments carry out ongoing research into a number of different aspects of the environment.



**Flora.**

*Spartina* survey (EN project).

**Completed.**

**Environment.**

Extensive research and survey into:

Tidal regimes.

Proposed:

Intertidal Habitat Monitoring (EN/EA project).

Sediment movement.

**Flora and Fauna.**

The distribution of all major plant and animal groups/communities.

**30. Current communications, education and public awareness (CEPA) activities related to or benefiting the site:**

e.g. visitor centre, observation hides and nature trails, information booklets, facilities for school visits, etc.

Interpretation facilities and interpretative panels exist at strategic locations on the Harbour footpaths; all nature reserve areas are covered by warden and ranger services with an educational remit. An Education Officer is employed by the Chichester Harbour Conservancy to instruct both school parties and adults in the cultural and nature conservation aspects of the harbour.

**31. Current recreation and tourism:**

State if the wetland is used for recreation/tourism; indicate type(s) and their frequency/intensity.

**Activities, Facilities provided and Seasonality.**

Walking, including dog walking: all year.

Birdwatching: all year.

Angling and bait-digging: all year.

Swimming (in restricted areas) - mostly summer.

Sailing, windsurfing, canoeing, waterskiing.

Sept-Feb wildfowling.

**32. Jurisdiction:**

Include territorial, e.g. state/region, and functional/sectoral, e.g. Dept. of Agriculture/Dept. of Environment, etc.

Head, Natura 2000 and Ramsar Team, Department for Environment, Food and Rural Affairs, European Wildlife Division, Zone 1/07, Temple Quay House, 2 The Square, Temple Quay, Bristol, BS1 6EB

**33. Management authority:**

Provide the name and address of the local office(s) of the agency(ies) or organisation(s) directly responsible for managing the wetland. Wherever possible provide also the title and/or name of the person or persons in this office with responsibility for the wetland.

Site Designations Manager, English Nature, Sites and Surveillance Team, Northminster House, Northminster Road, Peterborough, PE1 1UA, UK

**34. Bibliographical references:**

Scientific/technical references only. If biogeographic regionalisation scheme applied (see 15 above), list full reference citation for the scheme.

**Site-relevant references**

Barne, JH, Robson, CF, Kaznowska, SS, Doody, JP & Davidson, NC (eds.) (1998) *Coasts and seas of the United Kingdom. Region 9 Southern England: Hayling Island to Lyme Regis*. Joint Nature Conservation Committee, Peterborough. (Coastal Directories Series.)

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- Bratton, JH (ed.) (1991) *British Red Data Books: 3. Invertebrates other than insects*. Joint Nature Conservation Committee, Peterborough
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- Chichester Harbour Conservancy [www.conservancy.co.uk](http://www.conservancy.co.uk)
- Clark, M & Gurnell, A (1987) *The Solent estuary: environmental background*. Southampton University, GeoData Unit, Southampton
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- Doody, JP, Johnston, C & Smith, B (1993) *Directory of the North Sea coastal margin*. Joint Nature Conservation Committee, Peterborough
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- Musgrove, AJ, Pollitt, MS, Hall, C, Hearn, RD, Holloway, SJ, Marshall, PE, Robinson, JA & Cranswick, PA (2001) *The Wetland Bird Survey 1999–2000: wildfowl and wader counts*. British Trust for Ornithology, Wildfowl and Wetlands Trust, Royal Society for the Protection of Birds & Joint Nature Conservation Committee, Slimbridge. [www.wwt.org.uk/publications/default.asp?PubID=14](http://www.wwt.org.uk/publications/default.asp?PubID=14)
- Ratcliffe, DA (ed.) (1977) *A Nature Conservation Review. The selection of biological sites of national importance to nature conservation in Britain*. Cambridge University Press (for the Natural Environment Research Council and the Nature Conservancy Council), Cambridge (2 vols.)
- Sneddon, P & Randall, RE (1994) *Coastal vegetated shingle structures of Great Britain: Appendix 3. Shingle sites in England*. Joint Nature Conservation Committee, Peterborough
- Stroud, DA, Chambers, D, Cook, S, Buxton, N, Fraser, B, Clement, P, Lewis, P, McLean, I, Baker, H & Whitehead, S (eds.) (2001) *The UK SPA network: its scope and content*. Joint Nature Conservation Committee, Peterborough (3 vols.) [www.jncc.gov.uk/UKSPA/default.htm](http://www.jncc.gov.uk/UKSPA/default.htm)
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Please return to: **Ramsar Secretariat, Rue Mauverney 28, CH-1196 Gland, Switzerland**  
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## SITE OF SPECIAL SCIENTIFIC INTEREST (SSSI)

<b>Site Name:</b>	<b>Chichester Harbour</b>		
<b>County:</b>	West Sussex, Hampshire		
<b>District:</b>	Chichester, Havant		
<b>Local Planning Authority:</b>	Chichester District Council, Havant Borough Council		
<b>Size:</b>	3695 hectares (9130.3 acres) in total 2657 hectares (6566.7 acres) in West Sussex		
<b>National Grid Ref:</b>	SU760000		
<b>Date Notified (Under 1949 Act):</b>	1970	<b>Date of last revision:</b>	1980
<b>Date Notified (Under 1981 Act):</b>	1985 (1984 Hants)	<b>Date of last revision:</b>	-
<b>Other Information:</b>	This site lies within the South Coast Plain. It includes Nutbourne Marshes Local Nature Reserve. The site is listed in 'A Nature Conservation Review' and is a Geological Conservation Review site.		

### Reason for Notification

Chichester Harbour is a large estuarine basin in which at low water extensive mud and sandflats are exposed, drained by channels which unite to make a common exit to the sea. The site is of particular significance for wintering wildfowl and waders and also breeding birds both within the Harbour and in the surrounding permanent pasture fields and woodlands. There is a wide range of habitats which have important plant communities.

The intertidal area is fragmented in the upper reaches of the harbour by intruding tongues of land giving a very long and varied coastline. The harbour exhibits a wide range of intertidal and associated terrestrial habitats and with the neighbouring Langstone and Portsmouth Harbours is unusual in providing a large volume of sheltered saline water fed by a few streams of only low volume. The extensive intertidal mudflats are the feeding grounds, at the relevant times of year for internationally important numbers of ringed plover, grey plover, redshank, black-tailed godwit, dunlin, sanderling, curlew and greenshank (the latter two in autumn particularly). Bar-tailed godwit numbers are of European importance. Amongst the wildfowl, shelduck, teal and dark-bellied brent goose numbers are of international importance with 5% of the world population of the latter. The unimproved permanent pasture behind the sea wall provides alternative feeding sites for the geese and major high tide wader roosts. Some of this pasture is floristically rich being a red fescue *Festuca rubra* sward with scarce species such as green-winged orchid *Orchis morio* and adder's tongue fern *Ophioglossum vulgatum*.

The lower saltmarsh habitat fringing the mud flats is dominated by cord grass *Spartina anglica* and in most places the upper saltmarsh is rather restricted by the sea wall but there are some pure stands of sea purslane *Halimione portulacoides* while in some areas there is also sea lavender *Limonium vulgare*, sea aster *Aster tripolium* and other saltmarsh species.

Shingle occurs as spits and islands and most are rather unstable permitting little vegetation to become established. This habitat forms the main breeding grounds in the harbour for ringed plover, blackheaded gull and three species of terns. The extensive sand dunes at East Head are dominated by marram grass *Ammophila arenaria* although the degree of ground cover varies from 90% to 10% on the more recently established dunes.

At the head of Fishbourne Channel saltmarsh grades through a reed *Phragmites australis* bed into fresh marsh influenced by a chalk spring. Most of the other fresh marshes behind the sea wall are small but at Thorney Deep's reclaimed saltmarsh has given way to extensive fresh water marsh vegetation influenced by salt water intrusion; here the reed is fringed by extensive areas of rushes *Juncus* species and invasive willow *Salix* scrub. A number of small ponds occur one of which contains the rare annual beard grass *Polypogon monspeliensis*. Significant blocks of scrub, mainly hawthorn *Crataegus monogyna* and blackthorn *Prunus spinosa* occur which are important for breeding and roosting birds. Hedgerows of oak *Quercus robur* are common and in some places the oak roots are strongly influenced by salt water. Semi-natural broadleaved woodland associated with the Harbour is important for breeding birds and supports

two heronries. Oak is the major tree species usually with hazel *Corylus avellana* coppice, as at Old Park Wood, although Tournerbury Wood has well spaced oaks with the occasional beech *Fagus sylvatica*, holly *Ilex aquifolium* and yew *Taxus baccata* with a fairly dense ground flora of bramble *Rubus fruticosus* and bracken *Pteridium aquilinum*.

Notable invertebrates include the long-winged conehead *Conocephalus discolor* and the moths, starwort shark *Cucullia asteris*, the sand dart *Agrotis ripae*, shore wainscot *Mythimna litoralis* and lunar hornet *Sphex bemeciformis*.

### **Geology and Physiography**

East of Langstone, at SU725053, a low cliff line at high water mark exhibits a complex of Brickearth and Coombe Rock deposits and at East Head, SZ769991 there is a sizeable sand dune and shingle system both of which are of geomorphological importance.

## SITE OF SPECIAL SCIENTIFIC INTEREST (SSSI)

### Operations likely to damage the special interest

**Site name: Chichester Harbour (OLD1003245)**

#### **Ref. No. Type of operation**

1. Cultivation, including ploughing, rotovating, harrowing, and re-seeding.
2. Grazing and changes in the grazing regime (including type of stock or intensity or seasonal pattern of grazing and cessation of grazing).
3. Stock feeding and changes in stock feeding practice.
4. Mowing or other methods of cutting vegetation and changes in the mowing or cutting regime (including hay making to silage and cessation).
5. Application of manure, fertilisers and lime.
6. Application of pesticides, including herbicides (weedkillers).
7. Dumping, spreading or discharge of any materials.
8. Burning.
9. The release into the site of any wild, feral or domestic animal\*, plant or seed.
10. The killing or removal of any wild animal\*, including pest control.
11. The destruction, displacement, removal or cutting of any plant or plant remains, including tree, shrub, herb, hedge, dead or decaying wood, moss, lichen, fungus, leaf-mould, turf.
12. Tree and/or woodland management+ and changes in tree and/or woodland management+.
- 13a. Drainage (including the use of mole, tile, tunnel or other artificial drains).
- 13b. Modification of the structure of watercourses (eg rivers, streams, springs, ditches, dykes, drains), including their banks and beds, as by re-alignment, re-grading and dredging.
- 13c. Management of aquatic and bank vegetation for drainage purposes.
14. The changing of water levels and tables and water utilisation (including irrigation, storage and abstraction from existing water bodies and through boreholes).
15. Infilling of ditches, dykes, drains, ponds, pools, marshes or pits.
- 16a. Freshwater fishery production and/or management, including sporting fishing and angling.
- 16b. Coastal fishing or fisheries management and seafood or marine life collection, including the use of traps or fish cages.
17. Reclamation of land from sea, estuary or marsh.
18. Bait digging in intertidal areas.
19. Erection of sea defences or coast protection works, including cliff or landslip drainage or stabilisation measures.
20. Extraction of minerals, including shingle, sand and gravel, topsoil, subsoil, shells and spoil.
21. Construction, removal or destruction of roads, tracks, walls, fences, hardstands, banks, ditches or other earthworks, or the laying, maintenance or removal of pipelines and cables, above or below ground.
22. Storage of materials.
23. Erection of permanent or temporary structures, or the undertaking of engineering works, including drilling.
24. Modification of natural or man-made features, clearance of loose rock, scree or spoil and battering, buttressing, grading or seeding rock-faces, outcrops or cuttings, infilling of pits and quarries.
26. Use of vehicles or craft likely to damage or disturb features of interest.
27. Recreational or other activities likely to damage or disturb features of interest.
28. Game and waterfowl management and hunting practice.

- \* 'Animal' includes any mammal, reptile, amphibian, bird, fish or invertebrate.
- + Including afforestation, planting, clear and selective felling, thinning, coppicing, modification of the stand or underwood, changes in species composition, cessation of management.

## LOCAL WILDLIFE SITE (LWS)

### West Sussex

<b>Site Name:</b>	<b>Slipper Mill Pond &amp; Peter Pond</b>		
<b>Site Ref:</b>	C102	<b>Owner:</b>	Private
<b>District:</b>	Chichester	<b>Size (ha):</b>	3.5
<b>Parish:</b>	Southbourne	<b>Date:</b>	Identified May 1997
<b>National Grid Ref:</b>	SU753057	<b>Author:</b>	Graham Roberts
<b>Habitat:</b>	Coastal lagoon		

#### Summary

Slipper Mill Pond is a saline lagoon, a very rare wildlife habitat, both within the UK and Europe. It supports a rich invertebrate fauna including two species specifically protected under Schedule 5 of the Wildlife and Countryside Act 1981. These are the Tentacled Lagoon Worm, sometimes also known as the Marine Bristle Worm *Alkamaria romijini*, and the Starlet Sea Anemone *Nematostella vectensis*.

#### Site description

The northern pond, Peter Pond, is today separated from Slipper Mill Pond by the A259.

Peter Pond is managed by the Chichester Wildfowlers Association and Slipper Mill Pond by the Slipper Mill Pond Preservation Association. Management undertaken by the association has included construction of new tide gates, thus re-instating the 'brackish water regime' which operated at the time of the original mill.

The muddy bottom sediments of both ponds support a rich invertebrate fauna, including the Tentacled Lagoon Worm and Starlet Sea Anemone, both of which are considered to be endangered species in the IUCN Red Data Book. Slipper Mill Pond also has an interesting species of tube worm, *Ficopomatus enigmaticus*, which forms reef-like tube aggregates. Dr Clifford Thorpe of the University of Portsmouth has been conducting long-term ecological studies of the invertebrate fauna of the ponds since 1980.

The ponds attract a range of wintering, breeding and passage migrant birds. Diving duck, including Tufted Duck, Goldeneye, Red-breasted Merganser and Smew have all been recorded in winter, as well as Little Grebe, Kingfisher and Little Egret. Breeding birds include Moorhen, Coot, Mallard and Mute Swan. Reed Warblers breed in the small reedbed in Peter Pond. Common Sandpiper are regularly recorded on passage.

Slipper Mill Pond provides a nursery area to young fish. Grey Mullet can be present in considerable numbers.

Seawater from Chichester Harbour enters the Slipper Mill Pond during high water of spring tides through the sluice gates.

#### Management recommendations

Both ponds appear to be in good condition and well managed as wildlife sanctuaries. The main threats are probably pollutants, such as oil and detergents, which could cause serious ecological damage should they enter via the River Ems or from the harbour via the sluice.

475000

106000



475000



**Sussex  
Biodiversity  
Record Centre**

Woods Mill, Henfield,  
West Sussex BN5 9SD  
www.sxbrc.org.uk  
01273 497521

# Site: C102 - Slipper Mill Pond & Peter Pond

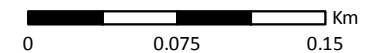
Key to Map:

- Local Wildlife Site
- Neighbouring Local Wildlife Site



Local Wildlife Site data maintained by SxBRC on behalf of the Local Wildlife Sites Partnership, supported by local authorities and nature conservation organisations.

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## LOCAL WILDLIFE SITE (LWS)

### West Sussex

<b>Site Name:</b>	Nutbourne Pastures		
<b>Site Ref:</b>	C112	<b>Owner:</b>	Private
<b>District:</b>	Chichester	<b>Size (ha):</b>	10.5
<b>Parish:</b>	Southbourne	<b>Date:</b>	Identified Dec 2000
<b>National Grid Ref:</b>	SU770050	<b>Author:</b>	Simon Curson
<b>Habitat:</b>	Semi-improved grassland and ditches		

#### Summary

This is an area of grazing fields at the northern end of Chichester Harbour, just south of Nutbourne. It lies immediately adjacent to Chichester Harbour SSSI and Nutbourne Marshes Local Nature Reserve. It consists of semi-improved grassland and is intersected by drainage ditches.

#### Site description

The importance of this site lies in its value to overwintering wildfowl and waders as a roosting and feeding site. The site consists of various leys or semi-improved grassland, with limited botanical interest.

The short grass is attractive to Brent Geese and provides a refuge for them if other areas are not available. Also of importance is the fact that waders, especially Curlew and Black-tailed Godwit, can continue feeding here at high tide when the mudflats are unavailable to them.

Water Voles have their West Sussex stronghold in Chichester Harbour and are likely to use the ditches on this site.

#### Management recommendations

In order to keep the grass fairly short the fields will need to be grazed. During the winter the grazing animals disturb the birds and it would be preferable not to graze the fields between November and March.

Any ditches or water courses on the site ought to be managed. They should be cleared every few years to prevent them silting up, but the adjacent vegetation should be retained as cover for Water Voles.



477000

# Site: C112 - Nutbourne Pastures

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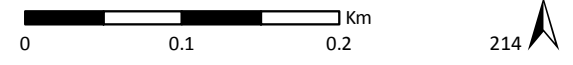
105000

- Key to Map:
-  Local Wildlife Site
  -  Neighbouring Local Wildlife Site



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## LOCAL WILDLIFE SITE (LWS)

### West Sussex

<b>Site Name:</b>	<b>Thornham Point</b>		
<b>Site Ref:</b>	C113	<b>Owner:</b>	Chichester Harbour Conservancy
<b>District:</b>	Chichester	<b>Size (ha):</b>	6.75
<b>Parish:</b>	Southbourne	<b>Date:</b>	Identified Dec 2000
<b>National Grid Ref:</b>	SU765044	<b>Author:</b>	Simon Curson
<b>Habitat:</b>	Saltmarsh		

#### Summary

Thornham Point is a developing saltmarsh site, with several nationally and locally significant species of plant and insects. It is in the northern part of Chichester Harbour just north of Thorney Island. It lies immediately adjacent to Chichester Harbour SSSI.

#### Site description

The site is a former pasture, subsequently a turf farm and rubbish tip, which since about 1990 has been subject to tidal flooding following a breach in the sea bank on the eastern side. This has led to the spontaneous development of mixed saltmarsh. The process has been slower in the northern part of the site, as the rubbish was not cleared until December 1996. In the centre of the field there is a slightly higher area which still supports permanent grassland. The edges of this have been establishing upper saltmarsh vegetation. The path on the southwest side, which is a former green lane, is edged with permanent grassland and scrub.

Noteworthy plant species include Perennial Glasswort *Salicornia perennis* in the saltmarsh, and Hoary Ragwort *Senecio erucifolius* and Dyer's Greenweed *Genista tinctoria* in the permanent grassland. There are also large stands of the latter along the green lane. These and several other plant species are important for invertebrates. Surveys in 1997 identified 175 species, of which ten are nationally threatened, rare or scarce.

The site has some ornithological interest with resident Skylark and Meadow Pipit, and Brent Geese, Shelduck, Lapwing, Grey Plover, Snipe and Redshank use the site in winter.

The ditches appear to be a nursery site for young fish.

#### Management recommendations



This site is an example of the process of managed realignment and, hopefully, this natural development will be allowed to continue. Light grazing of the permanent pasture may be necessary to preserve and enhance botanical diversity.

Any ditches or water courses on the site ought to be managed for Water Voles. They should be cleared every few years to prevent them silting up, but the adjacent vegetation should be retained as cover.

## Site: C113 - Thornham Point

Primrose  
Cottage

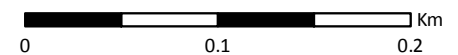
Key to Map:

-  Local Wildlife Site
-  Neighbouring Local Wildlife Site



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## Useful Contacts

Please use the following contacts for further advice or interpretation of the data in this report.

### Local Wildlife Sites

Organisation	Sussex Biodiversity Record Centre
Email	<a href="mailto:info@sxbrc.org.uk">info@sxbrc.org.uk</a>
Telephone	01273 497538

### Habitat data

Organisation	Sussex Biodiversity Record Centre
Email	<a href="mailto:info@sxbrc.org.uk">info@sxbrc.org.uk</a>
Telephone	01273 497557

### Geological Designations

Organisation	Sussex Geodiversity Partnership
Website	<a href="http://www.geodiversitysussex.org.uk">www.geodiversitysussex.org.uk</a>

### Statutory site advice

Organisation	Natural England – Sussex and Kent Area Team
Email	<a href="mailto:enquiries@naturalengland.org.uk">enquiries@naturalengland.org.uk</a>
Telephone	0300 060 3900
Website	<a href="http://www.gov.uk/government/organisations/natural-england">www.gov.uk/government/organisations/natural-england</a>

### General conservation advice

Organisation	Sussex Wildlife Trust
Email	<a href="mailto:wildcall@sussexwt.org.uk">wildcall@sussexwt.org.uk</a>
Telephone	01273 494777
Website	<a href="http://www.sussexwildlifetrust.org.uk/discover/wildlife-advice">www.sussexwildlifetrust.org.uk/discover/wildlife-advice</a>

### County Species Recorders

Visit <http://sxbrc.org.uk/recording/countyRecorders.php> for contact details of local experts covering most taxonomic groups.

### Supplying records

We rely on the continuous submission of records to keep our database up-to-date. We are always grateful to receive records from ecological consultants and members of the public alike. We accept records in many different formats but recommend the use of [iRecord](#).

Please contact the Record Centre for further information: [info@sxbrc.org.uk](mailto:info@sxbrc.org.uk) or 01273 497570

## **Annex – Supporting Information**

Statutory site designations

Non-statutory site designations

Species designations

Sussex invasive non-native report

## Statutory site designations

### Site of Special Scientific Interest (SSSI)

Sites of Special Scientific Interest are areas notified under the Wildlife and Countryside Act 1981, as being of special interest for nature conservation. They represent the finest sites for wildlife and natural features supporting many characteristic, rare and endangered species, habitats and natural features. Notification as a SSSI is primarily a legal mechanism organised by Natural England and selected according to specific scientific criteria. *The Guidelines for the Selection of Biological SSSIs*, published in 1989 by the Joint Nature Conservation Council, set down the selection criteria for both biological and geological SSSIs.

There are over 4,000 SSSIs in England of which just under 150 are in Sussex. Natural England is responsible for identifying and protecting these sites. This is achieved, primarily, in partnership with SSSI owners and managers.

Under the Countryside and Rights of Way Act 2000 (CROW) anyone who intentionally or recklessly destroys or damages any of the flora, fauna or geological or physiological features of an SSSI is guilty of an offence. They are liable, on summary conviction, of a fine of up to £20,000.

### Special Area of Conservation (SAC)

Special Areas of Conservation are sites designated by Member States under the EC Habitats Directive. The aim is to establish a European network of important high quality conservation sites that will make a significant contribution to conserving habitats and species considered to be most in need of conservation at a European level. There are 12 SAC sites in Sussex.

### Special Protection Area (SPA)

Special Protection Areas are designated under the EC Birds Directive, to conserve the habitat of certain rare or vulnerable birds and regularly occurring migratory birds. Any significant pollution or disturbance to or deterioration of these sites has to be avoided. All SPAs are also designated as SSSIs. There are six SPA sites in Sussex.

### Ramsar

Ramsar sites are designated under the Convention on Wetlands of International Importance. Under the Convention, each government must select its best wetlands according to very clear criteria, which include: a wetland that regularly supports 20,000 or more waterbirds; a wetland that regularly supports 1% of the individuals in a population of one species or subspecies of waterbird. Wetlands are broadly defined to include marsh, fen, peatland and water. All designated Ramsar sites are also designated as SSSIs. There are four Ramsar sites in Sussex.

### National Nature Reserve (NNR)

National Nature Reserves are statutory reserves established under the Wildlife and Countryside Act 1981. NNRs may be owned by the relevant national body (e.g. Natural England in England) or established by agreement. A few are owned and managed by non-statutory bodies, for example the Sussex Wildlife Trust. NNRs cover a selection of the most important sites for nature conservation in the UK. There are six NNRs in Sussex.

### National Park

National Parks are beautiful, spectacular and often dramatic expanses of countryside. In the UK people live and work in the National Parks and the farms, villages and towns are protected along with the landscape and wildlife. They differ from Areas of Outstanding Natural Beauty (AONBs) in that each National Park has its own authority for planning control and other services.

The creation of the South Downs National Park (SDNP) was confirmed on 12th November 2009 and it came into being on 1st April 2010.

### **Area of Outstanding Natural Beauty (AONB)**

Areas of Outstanding Natural Beauty are areas of high scenic quality that have statutory protection in order to conserve and enhance the natural beauty of their landscapes. They differ from National Parks in their more limited opportunities for extensive outdoor recreation and by the way they are managed. AONBs are designated by Natural England under the Countryside and Rights of Way Act 2000.

There are two AONBs in Sussex covering approx. 114,000 hectares: Chichester Harbour and the High Weald. Each has an associated body concerned with the area's conservation.

### **Marine Conservation Zone (MCZ)**

Marine Conservation Zones can be established to protect nationally important marine wildlife, habitats, geology and geomorphology and can be designated anywhere in English and Welsh inshore and UK offshore waters. They are established under the Marine and Coastal Access Act (2009). MCZs will be one of six designations contributing to an ecologically coherent network of marine protected areas.

### **Local Nature Reserve (LNR)**

Local Nature Reserves may be declared by local authorities under the National Parks and Access to the Countryside Act 1949. LNRs are declared and managed for nature conservation, and provide opportunities for research and education, or simply enjoying and having contact with nature. Some LNRs are also SSSIs. There are 36 LNRs in Sussex.

### **Country Park**

Country Parks are statutorily declared and managed by local authorities in England and Wales under the Countryside Act 1968. They are primarily intended for recreation and leisure opportunities close to population centres and do not necessarily have any nature conservation importance. However, many are in areas of semi-natural habitat and so form a valuable network of locations at which informal recreation and the natural environment coexist. There are 11 Country Parks in Sussex, the details of which can be obtained from the local authorities.



## Non-statutory site designations

### Local Wildlife Site (LWS)

Formerly known as Sites of Nature Conservation Importance (SNCI), Local Wildlife Sites are identified at a county level. They typically form a network of sites that are recognised to be of local conservation importance and are often included in Local Authority development plans.

There are many sites within East and West Sussex and Brighton and Hove that are not recognised under the national designation of SSSI (Site of Special Scientific Interest) but are of considerable wildlife value due to the special interest of their flora or fauna. In May 1990 a Sussex-wide project was instigated to identify which non-designated sites were important for wildlife. The selected sites are now known as Local Wildlife Sites. The aim of this project was to protect such sites from land management changes, which may lessen their nature conservation interest, and to encourage sensitive management to maintain and enhance their importance.

Sites within both rural and urban areas were considered but the evaluation process considers two types of site under slightly different criteria:

- **Rural sites**, that may contain habitats such as heathland or ancient woodland, must be of county-wide importance.
- **Urban sites** should recognise the importance of safeguarding important urban wildlife sites, to link all significant greenspaces and to ensure that people in towns have easy access to wildlife areas.

After extensive survey work, the selection of LWS was made by a panel of expert ecologists. This panel included representatives from the relevant County Council, English Nature (now Natural England) and the Sussex Wildlife Trust. A range of specialists with either specific species knowledge or a sound knowledge of the county's ecology were also involved with the selection process. Assessment and identification of LWS is a continuing process with new sites being identified and others deleted as ecological knowledge of the total resource and specific sites increase.

In West Sussex LWS selection is steered by the SxBRC, whereas in East Sussex it is steered by East Sussex County Council in partnership with the district and borough councils. Currently there are over 600 LWS in Sussex.

Although LWS have no statutory protection they need to be considered in the planning process through Planning Policy Guidance such as PPG9 which refers to the Town & Country Planning Act 1990 Section 30. This states that nature conservation issues should be included in the surveys of local authority areas to ensure that the plans are based on fully adequate information about local species, habitats, geology and landform. Plans should be concerned not only with designated areas but also with other land of conservation value and the possible provision of new habitats.

LWS citations outline the characteristics of the area based on its semi-natural vegetation and the underlying geology and are in three main sections :-

- **Summary** which highlights the nature conservation importance of the site
- **Site description or site notes** which gives further descriptive details about the site and its associated species
- **Management recommendations** which give a brief indication of the type of management that would best maintain the nature conservation interest of the site.

### Local Geological Site (LGS)

Previously known as Regionally Important Geological/Geomorphological Sites (RIGGS), Local Geological Sites have been identified by local geodiversity groups as being of importance. There are over 120 LGS in Sussex which have been assessed by the Sussex Geodiversity Partnership. The features identified as being important

become a material consideration in any future development, and should be taken into account by the relevant local authority.

A selection of LGS with public access in Sussex can be viewed on the [Sussex Geodiversity Partnership's website](#).

### **Designated Road Verge (DRV)**

Designated Road Verges (DRVs) are areas of roadside verge that have been designated for their special wildlife interest. They can hold spectacular displays of wild flowers, including rare orchids and other plant species indicative of old meadows, and can be of great importance to invertebrates and fungi. There is no statutory protection for road verges, but they can be found within both non-statutory and statutory designations.

As linear features, road verges naturally traverse a wide range of habitat types, soils and geology. The species composition of DRVs can therefore be varied. Swathes of cow parsley, cuckoo flower, primroses and orchids can be found. Downland herbs, meadow flowers and heathers support a range of insects, as do the areas of bare ground which are used by nesting bees and wasps. Reptiles, amphibians and mammals can find shelter along these verges and use them as valuable green corridors.

As the Highway Authorities, the County Councils are responsible for the cutting and management of roadside verges, and they also have a responsibility to conserve biodiversity. Where health and safety measures allow, this is achieved by restricting cutting to certain times of the year (usually when wild flowers have set seed in late summer) and using different techniques to standard verge cutting.

The initiatives for designating and managing DRVs differ between East and West Sussex. DRVs in West Sussex are identified by short oak posts with red discs. In East Sussex they are marked by posts with yellow metal flowers.

In West Sussex, the following guidelines are used to help identify DRVs:

- 1) Site supports locally rare, notable or protected species of flora or fauna** e.g. the plant coralroot. This type of bittercress is only found in two localised areas of the UK; the Sussex Weald and the Chilterns.
- 2) Site is a good example of an uncommon, remnant or declining habitat** e.g. species of sandy grassland along Rock Road in the Parish of Washington.
- 3) Site has good overall species diversity** e.g. Mallions Lane near Cuckfield.
- 4) The assemblage of wild flowers has high aesthetic value** e.g. Franklyn Road outside Haywards Heath hospital with a wonderful display of common spotted orchids in early summer.
- 5) Site has wildlife value that is regarded as important by the local community** e.g. Barnham Road at Eastergate.

### **Marine Site of Nature Conservation Importance (MSNCI)**

Marine Sites of Nature Conservation Importance are non-statutory sites identified on account of the special interest of their marine habitats, the fauna and flora, or for unusual geological and geomorphological features. The identification of these sites is to highlight their importance for marine wildlife and to emphasise the risks of certain operations damaging their interest. There are 23 MSNCIs off the Sussex coast.

## Species designations

### International legislation

#### Birds Directive

The European Union meets its obligations for bird species under the Bern Convention and Bonn Convention and more generally by means of Directive 2009/147/EC (Birds Directive) on the conservation of wild birds. The Directive provides a framework for the conservation and management of, and human interactions with, wild birds in Europe.

#### Annex 1

Birds which are in danger of extinction; vulnerable to specific changes in their habitat; considered rare because of small populations or restricted local distribution; requiring particular attention for reasons of the specific nature of habitat. Their most suitable territories are protected by the designation of Special Protection Areas (SPA).

#### Habitats Directive

Council Directive 92/43/EEC on the Conservation of natural habitats and of wild fauna and flora, known as the Habitats Directive, was adopted in 1992. The Directive is the means by which the European Union meets its obligations under the Bern Convention. The Directive is transposed into UK law through the The Conservation of Habitats and Species Regulations 2010 (see below).

#### Annex 2

Species considered to be most in need of conservation at a European level (excluding birds). Special Areas of Conservation (SACs) are strictly protected sites designated under the Habitats Directive and provide a network of important high-quality conservation sites that will make a significant contribution to conserving Annex 2 species.

**Priority species** - Species which are endangered, the conservation of which the European Community has a particular responsibility in view of the proportion of their natural range which falls within the territory of the Community.

**Non-priority species** - Species of Community interest (i.e. endangered, vulnerable, rare or endemic in the European Community) whose conservation requires the designation of special areas of conservation.

#### Annex 4

Animal and plant species of Community interest (i.e. endangered, vulnerable, rare or endemic in the European Community) in need of strict protection. They are protected from killing, disturbance or the destruction of them or their habitat.

### National legislation

#### The Conservation of Habitats and Species Regulations 2010

This is a transposition of the Habitats Directive into UK legislation. The Regulations provide for the designation and protection of 'European sites', the protection of 'European protected species', and the adaptation of planning and other controls for the protection of European Sites. Under the Regulations, government departments and public bodies have a general duty, in the exercise of any of their functions, to have regard to the Habitats Directive.

**Schedule 2** lists European protected species of animals

**Schedule 5** lists European protected species of plants

#### Wildlife & Countryside Act 1981

The Wildlife and Countryside Act 1981 (WCA) remains one of the most important pieces of wildlife legislation in Great Britain. This legislation is the means by which the Convention on the Conservation of European Wildlife and Natural Habitats (the 'Bern Convention') and the European Union Directives on the Conservation of Wild Birds (79/409/EEC) and Natural Habitats and Wild Fauna and Flora (92/43/EEC) are implemented. The Act is divided into four parts; Part I is concerned with the protection of wildlife and is split into 27 Sections. Schedules of species relevant to the planning process are detailed as follows:

<b>Schedule 1 Part 1</b>	Birds protected by special penalties at all times.
<b>Schedule 5 Section 9.1 (killing/injuring)</b>	Animals which are protected from intentional killing or injuring.
<b>Schedule 5 Section 9.1 (taking)</b>	Animals which are protected from taking.
<b>Schedule 5 Section 9.4a</b>	Animals which are protected from intentional damage or destruction to any structure or place used for shelter or protection.
<b>Schedule 5 Section 9.4b</b>	Animals which are protected from intentional disturbance while occupying a structure or place used for shelter or protection.
<b>Schedule 8</b>	Plants which are protected from intentional picking, uprooting or destruction (Section 13 Part 1a); selling, offering for sale, possessing or transporting for the purpose of sale, any plant (live or dead, part or derivative) (Section 13 Part 2a); advertising (any of these) for buying or selling (Section 13 Part 2b).
<p><b>Natural Environment &amp; Rural Communities (NERC) Act Section 41 Species</b>  Also known as ‘Species of Principle Importance in England’ and the ‘England Biodiversity List’, this list was developed to meet the requirements of Section 40 of the NERC Act (2006). The list is derived from the 2007 revised list of UK BAP Priority Species. It is used to guide decision-makers, such as public bodies, in implementing their duty under Section 40 of the Act ‘to have regard’ to the conservation of biodiversity in England, when carrying out their normal functions.</p>	
<b>Section 41</b>	Lists species “of principal importance for the purpose of conserving biodiversity”.

## Other species designations

### IUCN Red List of Threatened Species

The IUCN Red List categories are intended to be an easily and widely understood system for classifying species at high risk of global extinction. The list is divided into nine categories, of which the following are used in this report:

<b>Extinct</b>	A taxon is Extinct when there is no reasonable doubt that the last individual has died. A taxon is presumed Extinct when exhaustive surveys in known and/or expected habitat, at appropriate times (diurnal, seasonal, annual), throughout its historic range have failed to record an individual. Surveys should be over a time frame appropriate to the taxon’s life cycle and life form.
<b>Extinct in the wild</b>	A taxon is Extinct in the Wild when it is known only to survive in cultivation, in captivity or as a naturalized population (or populations) well outside the past range. A taxon is presumed Extinct in the Wild when exhaustive surveys in known and/or expected habitat, at appropriate times (diurnal, seasonal, annual), throughout its historic range have failed to record an individual. Surveys should be over a time frame appropriate to the taxon’s life cycle and life form.
<b>Critically endangered</b>	A taxon is Critically Endangered when the best available evidence indicates that it meets any of the criteria A to E for Critically Endangered, and it is therefore considered to be facing an extremely high risk of extinction in the wild.
<b>Endangered</b>	A taxon is Endangered when the best available evidence indicates that it meets any of the criteria A to E for Endangered, and it is therefore considered to be facing a very high risk of extinction in the wild.
<b>Vulnerable</b>	A taxon is Vulnerable when the best available evidence indicates that it meets any of

	the criteria A to E for Vulnerable, and it is therefore considered to be facing a high risk of extinction in the wild.
<b>Near threatened</b>	A taxon is Near Threatened when it has been evaluated against the criteria but does not qualify for Critically Endangered, Endangered or Vulnerable now, but is close to qualifying for or is likely to qualify for a threatened category in the near future.
<b>Least concern</b>	A taxon is Least Concern when it has been evaluated against the criteria and does not qualify for Critically Endangered, Endangered, Vulnerable or Near Threatened. Widespread and abundant taxa are included in this category.
<b>Data deficient</b>	A taxon is Data Deficient when there is inadequate information to make a direct, or indirect, assessment of its risk of extinction based on its distribution and/or population status. A taxon in this category may be well studied, and its biology well known, but appropriate data on abundance and/or distribution are lacking. Data Deficient is therefore not a category of threat. Listing of taxa in this category indicates that more information is required and acknowledges the possibility that future research will show that threatened classification is appropriate. It is important to make positive use of whatever data are available. In many cases great care should be exercised in choosing between DD and a threatened status. If the range of a taxon is suspected to be relatively circumscribed, and a considerable period of time has elapsed since the last record of the taxon, threatened status may well be justified.
<b>Nationally rare/scarce species</b>	
<b>Nationally rare</b>	Occurring in 15 or fewer hectads in Great Britain. Excludes rare species qualifying under the main IUCN criteria.
<b>Nationally rare marine</b>	Occurring in eight or fewer 10km x 10km grid squares containing sea (or water of marine saline influence) within the three mile territorial limit.
<b>Nationally scarce</b>	Occurring in 16-100 hectads in Great Britain. Excludes rare species qualifying under the main IUCN criteria. <b>This category replaces Notable, Notable A and Notable B.</b>
<b>Nationally scarce marine</b>	Occurring in nine to 55 10km x 10km grid squares containing sea (or water of marine saline influence) within the three mile territorial limit.
<b>Nationally Notable A</b>	Taxa which do not fall within Red Data Book categories but which are none-the-less uncommon in Great Britain and thought to occur in 30 or fewer 10km squares of the National Grid or, for less-well recorded groups, within seven or fewer vice-counties. <b>Superseded by Nationally Scarce, and therefore no longer in use.</b>
<b>Nationally Notable B</b>	Taxa which do not fall within Red Data Book categories but which are none-the-less uncommon in Great Britain and thought to occur in between 31 and 100 10km squares of the National Grid or, for less-well recorded groups, between eight and twenty vice-counties. <b>Superseded by Nationally Scarce, and therefore no longer in use.</b>
<b>Nationally Notable</b>	Species which are estimated to occur within the range of 16 to 100 10km squares. (subdivision into Notable A and Notable B is not always possible because there may be insufficient information available). <b>Superseded by Nationally Scarce, and therefore no longer in use.</b>
<b>Birds of Conservation Concern 4: Red list</b>	Birds that are Globally Threatened according to IUCN criteria; those whose population or range has declined rapidly in recent years; and those that have declined historically and not shown a substantial recent recovery
<b>Birds of Conservation Concern 4: Amber list</b>	Birds with an unfavourable conservation status in Europe; those whose population or range has declined moderately in recent years; those whose population has declined

	historically but made a substantial recent recovery; rare breeders; and those with internationally important or localised populations.
<b>UK Biodiversity Action Plan Priority Species</b>	The UK List of Priority Species contains 1150 species that have been listed as priorities for conservation action under the UK Biodiversity Action Plan (UK BAP).
<b>Local inventories</b>	
<b>Sussex Rare Species Inventory</b>	The Sussex Rare Species Inventory contains over 3,400 species. These species are selected according to strict criteria of rarity associated with their occurrence in Sussex. It includes species which fall into the above categories of rarity as well as county rarities.
<b>Sussex Notable Bird List</b>	The Sussex Notable Bird List consists of species that are particularly scarce or vulnerable to development. See next page for full details.

## Sussex Notable Bird List

The Sussex Notable Bird List consists of species that are particularly scarce or vulnerable to development. It includes species which are either on the Birds of Conservation Concern Red and Amber lists, NERC Section 41 or Schedule 1 species known to have bred in Sussex, have been recorded in summer and may breed in the future or have vulnerable overwintering populations in Sussex. Table 6 of the report will show records of these species based on selection criteria decided on by the Sussex Ornithological Society (SOS).

These records are not available to the general public due to the sensitivity of the data. The SOS has kindly shared these records with us, with the view that better planning decisions can be made with their availability.

Below is the list of species and the date ranges/criteria for their inclusion:

Species	Record type treated as notable in Sussex
Dark-bellied Brent Goose	All records
Mute Swan	Confirmed or probable breeding or late May - early July records
Bewick's Swan	All records
Whooper Swan	All records
White-fronted Goose	All records
European Greater White-fronted Goose	All records
Greenland Greater White-fronted Goose	All records
Common Shelduck	Confirmed or probable breeding or late May - early July records
Wigeon	Confirmed or probable breeding or late May - early July records
Gadwall	Confirmed or probable breeding or late May - early July records
Teal	Confirmed or probable breeding or late May - early July records
Mallard	Confirmed or probable breeding or late May - early July records
Pintail	Confirmed or probable breeding or late May - early July records
Garganey	Confirmed or probable breeding or late May - early July records
Shoveler	Confirmed or probable breeding or late May - early July records
Pochard	Confirmed or probable breeding or late May - early July records
Tufted Duck	Confirmed or probable breeding or late May - early July records
Scaup	All records
Common Scoter	All records
Little Egret	Confirmed or probable breeding records + roost
Purple Heron	All records
Bittern	All records
Little Bittern	All records
Spoonbill	All records
Black Grouse	All records
Grey Partridge	Confirmed or probable breeding or March - August records
Quail	Confirmed or probable breeding or March - August records
Red-throated Diver	All records
Black-throated Diver	All records
Great Northern Diver	All records
Little Grebe	Confirmed or probable breeding or late May - early August records
Slavonian Grebe	All records
Fulmar	Confirmed or probable breeding records
Balearic Shearwater	All records
Leach's Petrel	All records
Honey-buzzard	Information provided in summary only
Red Kite	Confirmed or probable breeding or March - August records + roost
White-tailed Eagle	All records
Marsh Harrier	Information provided in summary only
Hen Harrier	Roost
Pallid Harrier	All records
Montagu's Harrier	Information provided in summary only
Goshawk	Information provided in summary only
Golden Eagle	All records

Osprey	Mid-May to July records
Kestrel	Confirmed or probable breeding or May - July records
Merlin	All records
Hobby	Confirmed or probable breeding or April - August records
Gyr Falcon	All records
Peregrine	Information provided in summary only
Spotted Crake	Information provided in summary only
Corncrake	All records
Oystercatcher	Confirmed or probable breeding or late May - early July records
Little Ringed Plover	Confirmed or probable breeding or April - July records
Ringed Plover	Confirmed or probable breeding or late May - early July records
Dotterel	All records
Lapwing	Confirmed or probable breeding or April - June records
Black-winged Stilt	April to August records
Avocet	Confirmed or probable breeding or March - July records
Stone-curlew	Information provided in summary only
Common Sandpiper	Confirmed or probable breeding or late May - early July records
Snipe	Confirmed or probable breeding or April - July records
Curlew	Confirmed or probable breeding or April - July records
Woodcock	Confirmed or probable breeding or March - August records
Ruff	All records
Black-tailed Godwit	All records
Redshank	Confirmed or probable breeding or April - July records
Wood Sandpiper	All records
Red-necked Phalarope	All records
Little Gull	All records
Little Tern	Confirmed or probable breeding records
Mediterranean Gull	Confirmed or probable breeding records
Common Gull	Confirmed or probable breeding records
Lesser Black-backed Gull	Confirmed or probable breeding records
Yellow-legged Gull	Confirmed or probable breeding or April - June records
Herring Gull	Confirmed or probable breeding records
Great Black-backed Gull	Confirmed or probable breeding records
Black-headed Gull	Confirmed or probable breeding records
Kittiwake	Confirmed or probable breeding records
Black Tern	All records
Sandwich Tern	Confirmed or probable breeding records
Common Tern	Confirmed or probable breeding records
Roseate Tern	All records
Stock Dove	Confirmed or probable breeding or May - July records
Turtle Dove	Confirmed or probable breeding or May - July records
Cuckoo	Confirmed or probable breeding or May - July records
Barn Owl	All records
Snowy Owl	All records
Tawny Owl	Confirmed or probable breeding or May - July records
Long-eared Owl	Confirmed or probable breeding or March - July records + roost
Short-eared Owl	Confirmed or probable breeding or May - July records
Nightjar	Confirmed or probable breeding or May - July records
Swift	Confirmed or probable breeding records
Kingfisher	Confirmed or probable breeding or March - August records
Bee-eater	Confirmed or probable breeding or May - July records
Hoopoe	Confirmed or probable breeding or May - July records
Wryneck	Confirmed or probable breeding or May - July records
Green Woodpecker	Confirmed or probable breeding records
Lesser Spotted Woodpecker	All records
Aquatic Warbler	All records
Marsh Warbler	Information provided in summary only
Cetti's Warbler	Confirmed or probable breeding or March - August records



Grasshopper Warbler	Confirmed or probable breeding or May - July records
Savi's Warbler	Information provided in summary only
Wood Warbler	Confirmed or probable breeding or April - August records
Willow Warbler	Confirmed or probable breeding records
Woodlark	Confirmed or probable breeding or February - August records
Skylark	Confirmed or probable breeding or April - July records
Sand Martin	Confirmed or probable breeding records
Swallow	Confirmed or probable breeding records
House Martin	Confirmed or probable breeding records
Tree Pipit	Confirmed or probable breeding or May - July records
Meadow Pipit	Confirmed or probable breeding or May - July records
Yellow Wagtail	Confirmed or probable breeding or May - June records
Blue-headed Wagtail	Confirmed or probable breeding or May - June records
Grey Wagtail	Confirmed or probable breeding or May - June records
Dunnock	Confirmed or probable breeding records
Nightingale	Confirmed or probable breeding records
Bluethroat	All records
Black Redstart	May - July records
Redstart	Confirmed or probable breeding or April - July records
Whinchat	Confirmed or probable breeding or May - July records
Wheatear	Confirmed or probable breeding or May - July records
Ring Ouzel	All records
Song Thrush	Confirmed or probable breeding records
Mistle Thrush	Confirmed or probable breeding records
Spotted Flycatcher	Confirmed or probable breeding records
Pied Flycatcher	Confirmed or probable breeding or May - July records
Whitethroat	Confirmed or probable breeding records
Dartford Warbler	Confirmed or probable breeding or March - August records
Bearded Tit	Confirmed or probable breeding or March - August records
Firecrest	Confirmed or probable breeding or May - August records
Willow Tit	All records
Marsh Tit	Confirmed or probable breeding or April - July records
Red-backed Shrike	Information provided in summary only
Chough	All records
Starling	Confirmed or probable breeding records
House Sparrow	Confirmed or probable breeding records
Tree Sparrow	All records
Lesser Redpoll	Confirmed or probable breeding or May - July records
Linnet	Confirmed or probable breeding records
Twite	All records
Serim	All records
Common Crossbill	Confirmed or probable breeding or February - June records
Bullfinch	Confirmed or probable breeding records
Hawfinch	All records
Yellowhammer	Confirmed or probable breeding records
Cirl Bunting	All records
Reed Bunting	Confirmed or probable breeding records
Corn Bunting	All records

## Sussex Invasive Non-Native Species (INNS)

The Sussex invasive non-native species (INNS) report is produced in order to help minimise the threat posed by invasive species in Sussex. An invasive non-native species is defined as a species whose introduction and/or spread threatens biological diversity. The INNS table includes records of non-native species listed in Schedule 9 of the Wildlife & Countryside Act 1981 (WCA) and 26 other species not in this Schedule but which pose a particular risk in Sussex. These additional species are:

Scientific name	Common name
<i>Pseudorasbora parva</i>	Topmouth Gudgeon
<i>Leucaspis delineates</i>	Sunbleak
<i>Amsinckia micrantha</i>	Common Fiddleneck
<i>Centranthus ruber</i>	Red Valerian
<i>Gaultheria shallon</i>	Shallon
<i>Hyacinthoides hispanica</i>	Spanish Bluebell
<i>Nymphoides peltata</i>	Fringed Water-lily
<i>Petasites fragrans</i>	Winter Heliotrope
<i>Prunus laurocerasus</i>	Cherry Laurel
<i>Hyacinthoides non-scripta x hispanica = H. x massartiana</i>	Hybrid Bluebell
<i>Lemna minuta</i>	Least Duckweed
<i>Acaena novae-zelandiae</i>	Pirri-pirri-bur
<i>Lysichiton americanus</i>	American Skunk Cabbage
<i>Cortaderia selloana</i>	Pampas Grass
<i>Quercus ilex</i>	Evergreen Oak
<i>Harmonia axyridis</i>	Harlequin Ladybird
<i>Lilioceris lili</i>	Lily Beetle
<i>Cameraria ohridella</i>	Horse-Chestnut Leaf-miner
<i>Campylopus introflexus</i>	Heath Star Moss
<i>Trachemys scripta</i>	Red-eared Terrapin
<i>Lithobates catesbeianus</i>	American Bullfrog
<i>Styela clava</i>	Leathery Sea Squirt
<i>Dreissena polymorpha</i>	Zebra Mussel
<i>Dreissena rostriformis bugensis</i>	Quagga Mussel
<i>Lymantria dispar</i>	Gypsy Moth
<i>Thaumetopoea processionea</i>	Oak Processionary Moth

### What's the problem

With no natural predators and a benign climate, INNS can out-compete our native plant and animal species. For example, some invasive plant species can change light levels, decrease dissolved oxygen in water, change soil chemistry and its structure, and increase surface run-off and soil erosion. On a more subtle level, INNS can affect ecosystem processes such as nutrient cycling, pollination and regeneration of soils. Invasive fauna can compete with native species, displace them, consume them, act as parasites or transmit diseases, reduce growth and survival rates, cause the decline or extinction of local populations or even entire species.

### Legislation

Section 14 of the Wildlife and Countryside Act 1981 (WCA) is the principal legislation dealing with non-native species. Schedule 9 lists plant and animal species to which Section 14 applies.

Section 14 makes it illegal to release or allow to escape into the wild any animal which is not ordinarily resident in Great Britain and is not a regular visitor to Great Britain in a wild state, or is listed in Schedule 9 to the Act. It is also illegal to plant or otherwise cause to grow in the wild any plant listed in Schedule 9 to the Act.

### What to do if there is an invasive alien species on your site

If you have any of the species listed in this report on your site, firstly investigate the recommended control for the particular species. You can search by species name on the [GB non-native species secretariat website](#) for further advice.

If there is an invasive non-native species at your site that is not in this report please email us at [info@sxbrc.org.uk](mailto:info@sxbrc.org.uk) or call 01273 497570 so that we can update our database.

## Sussex Biodiversity Record Centre

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Website: [www.sxbrc.org.uk](http://www.sxbrc.org.uk)

The Sussex Biodiversity Record Centre is managed by the Sussex Wildlife Trust as a partnership project.  
A list of our current funding partners can be found on our website: [www.sxbrc.org.uk/about/partners](http://www.sxbrc.org.uk/about/partners)

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