



Extended Phase 1 Habitat
Survey for

STAFFORDSHIRE MOORLANDS
DISTRICT COUNCIL



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Executive Summary

Lockwood Hall Associates Ltd have been commissioned by Staffordshire Moorlands District Council to undertake 228 Extended Phase 1 Habitat surveys from September to October 2014 across the Staffordshire Moorlands District, mainly centred around the towns of Leek, Cheadle and Biddulph and main villages throughout the district.

The purpose of the surveys is to ascertain the value of these potential housing, employment and retail allocations in terms of their present and potential ecological value. This relates particularly to the potential or confirmed presence of European and UK protected species and habitats and designated sites for nature conservation within 2km. The conclusions of the 228 individual reports will be used by the Council as evidence to assess the ecological characteristics of these sites as part of its emerging site allocations work in accordance with NPPF, to assist in selecting sites for future development (and also in the determination of planning applications).

The sites themselves have some homogeneity in that the vast majority consist of agriculturally improved grasslands, species poor hedgerows and scattered trees, scrub and tall ruderal vegetation. These habitats often lack value in terms of biodiversity and are usually bereft of the potential to support most European and UK protected species which have been identified through the desk study, apart potentially from bats foraging over tree and hedge lines and badger *Meles meles* foraging within the grassland areas. The potential for mature trees and buildings to support roosting bats forms a major part of the sites analyses, as farm buildings are often present and mature trees scattered within the sites hedgerow boundaries. Some sites have been given a higher ecological value as they form part of a mosaic of habitats connected to more biodiverse areas.

The net result of these surveys is the recommendation for future surveys and management including the following table taking all 228 sites into consideration:

Table 1; Summary of required ecological surveys/ actions/ issues within all 228 sites

Survey Type	Total
Bat survey of trees deemed potentially suitable for roosting	367
Bat surveys of sites with buildings deemed potentially suitable for roosting	45
Great crested newt survey either on site or within sufficient distance to warrant survey	27
Reptile survey and/ or removal of refugia	65
Otter survey	4
Water vole survey	4
Polecat survey	4
HEGS survey of hedgerows considered to be species rich	51
Vegetation removal at an appropriate time of the year to avoid breeding birds	227
Noxious weed removal regime - Japanese knotweed	5
Noxious weed removal regime - Other	7
Sites needing creation of 'buffer zones' from abutting designated sites	3
Sites needing resurvey	10
Sites not surveyed due to inability to access/ issues	8
Sites denied access	1



Abbreviations and Acronyms

AM	Amenity grassland
ArcGIS	Computer programme/package for mapping
AWI	Listed on Ancient Woodland Inventory
BAP	Biodiversity Action Plan
BAS	Biodiversity Alert Site
BG	Bare Ground
BPT	Bat Potential Tree
BTO	British Trust for Ornithology
BW	Broadleaved Woodland
CIEEM	Chartered Institute of Ecology & Environmental Management
CRoW	Countryside & Rights of Way Act 2000
DS	Dense Scrub
ESP	Ephemeral grassland
I	Improved species poor grassland
INV	Invasive species
JNCC	Joint Nature Conservation Committee
LNR	Local Nature Reserve
MAGIC	Multi Agency Geographic Information for the Countryside
NNR	National Nature Reserve
OW	Open Water
PBW	Planted Broadleaved Woodland
E/ UK PS	European/ UK Protected Species
RIGS	Regionally Important Geological Site
RSPB	Royal Society for the Protection of Birds
SBI	Site of Biological Importance
SER	Staffordshire Ecological Record
SI	Semi Improved species poor grassland
SMDC	Staffordshire Moorlands District Council
SNG	Semi-improved Neutral Grassland
SS	Scattered Scrub
SSSI	Site of Special Scientific Interest
TN	Target Note
TR	Tall Ruderal vegetation
UKBAP	United Kingdom Biodiversity Action Plan
UNG	Unimproved Neutral Grassland
WTNR	Wildlife Trust Nature Reserve



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Site References for Ecological Study listed by numeric FID

FID Site Reference	O.S Grid References	Settlement
129	SK0713741610	Alton
130	SK0758741903	Alton
131	SK0720541585	Alton
132	SK0720541585	Alton
194	SK0702641782	Alton
102	SJ9256550877	Bagnall
103	SJ9259550941	Bagnall
104	SJ9270051024	Bagnall
17	SJ8792757255	Biddulph
18	SJ8846757338	Biddulph
19	SJ8836757913	Biddulph
20	SJ8840457945	Biddulph
21	SJ8859856381	Biddulph
22	SJ8872658848	Biddulph
23	SJ8857259091	Biddulph
24	SJ8888559136	Biddulph
25	SJ8787957518	Biddulph
26	SJ8831659012	Biddulph
27	SJ8831659012	Biddulph
28	SJ8760856874	Biddulph
115	SJ8815557159	Biddulph
116	SJ8822358818	Biddulph
117	SJ8805056969	Biddulph
118	SJ8795757055	Biddulph
119	SJ8800156924	Biddulph
120	SJ8736956391	Biddulph
121	SJ8818358742	Biddulph
122	SJ8857558842	Biddulph
123	SJ8745556285	Biddulph
124	SJ8957558028	Biddulph
125	SJ8949757799	Biddulph
126	SJ8945057684	Biddulph
127	SJ8966758349	Biddulph
128	SJ8964358542	Biddulph
210	SJ8817055496	Biddulph
226	SJ8801157522	Biddulph
108	SJ9099058442	Biddulph Moor
109	SJ9105658359	Biddulph Moor
110	SJ9032957956	Biddulph Moor



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FID Site Reference	O.S Grid References	Settlement
111	SJ9036658094	Biddulph Moor
112	SJ9111958303	Biddulph Moor
113	SJ9090758008	Biddulph Moor
114	SJ9091058103	Biddulph Moor
162	SK0114759859	Blackshaw Moor
206	SK0077159038	Blackshaw Moor
47 & 48	SJ9552241451	Blythe Bridge and Forsbrook
49	SJ9619241033	Blythe Bridge and Forsbrook
50	SJ9618841097	Blythe Bridge and Forsbrook
51	SJ9616041017	Blythe Bridge and Forsbrook
52	SJ9621441046	Blythe Bridge and Forsbrook
53	SJ9575441828	Blythe Bridge and Forsbrook
54	SJ9634941956	Blythe Bridge and Forsbrook
55	SJ9667641917	Blythe Bridge and Forsbrook
56	SJ9653341417	Blythe Bridge and Forsbrook
57	SJ9663941284	Blythe Bridge and Forsbrook
58	SJ9659841373	Blythe Bridge and Forsbrook
59	SJ9560741814	Blythe Bridge and Forsbrook
60	SJ9556241633	Blythe Bridge and Forsbrook
61	SJ9676640772	Blythe Bridge and Forsbrook
224	SJ9681440826	Blythe Bridge and Forsbrook
225	SJ9583740992	Blythe Bridge and Forsbrook
96	SJ9074252967	Brown Edge
97	SJ9126353332	Brown Edge
98	SJ9100853049	Brown Edge
99	SJ9093752909	Brown Edge



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FID Site Reference	O.S Grid References	Settlement
100	SJ9087352839	Brown Edge
101	SJ9039453552	Brown Edge
74	SJ9516542982	Caverswall
75	SJ9512843057	Caverswall
76	SJ9504443045	Caverswall
217	SJ9455242320	Caverswall
140	SK0128644330	Cheadle
141	SK0130444006	Cheadle
142	SK0058642847	Cheadle
143	SK0103743630	Cheadle
144	SK0004142424	Cheadle
145	SK0115644425	Cheadle
146	SK0148744520	Cheadle
147	SK0174243578	Cheadle
148	SK0183143121	Cheadle
149	SK0190743045	Cheadle
150	SK0156343297	Cheadle
151	SK0166243335	Cheadle
152	SK0191042870	Cheadle
153	SK0191042870	Cheadle
154	SK0065241934	Cheadle
155	SK0046042010	Cheadle
156	SK0025742365	Cheadle
157	SK0160844159	Cheadle
158	SK0182742323	Cheadle
159	SK0190342731	Cheadle
160	SJ9972042948	Cheadle
161	SK0135043795	Cheadle
191	SK0123843785	Cheadle
195	SK0078841759	Cheadle
209	SJ9901842344	Cheadle
211	SJ9936141531	Cheadle
212	SJ995974281	Cheadle
218	SK9986342299	Cheadle
219	SJ9986042510	Cheadle
84	SK0276538061	Checkley
85	SK0266138107	Checkley
179	SJ9695050397	Cheddleton
180	SJ9689250024	Cheddleton
181	SJ9682650156	Cheddleton
182	SJ9682750850	Cheddleton



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FID Site Reference	O.S Grid References	Settlement
183	SJ9682450871	Cheddleton
184	SJ9687750858	Cheddleton
185	SJ9698150066	Cheddleton
186	SJ9770051695	Cheddleton
187	SJ9754751744	Cheddleton
188	SJ9729451998	Cheddleton
189	SJ9748352303	Cheddleton
204	SJ9701551385	Cheddleton
77	SJ9440043376	Cookshill
78	SJ9472143354	Cookshill
213	SJ9807038825	Cresswell
105	SJ97317436871	Dilhorne
106	SJ9742643626	Dilhorne
107	SJ9745543743	Dilhorne
190	SJ9734143728	Dilhorne
79	SJ9833340123	Draycott
80	SJ9813640184	Draycott
223	SJ9800440309	Draycott
2	SJ9256253864	Endon
3	SJ9222553737	Endon
4	SJ9291552948	Endon
5	SJ9297953442	Endon
172	SJ9291852864	Endon
173	SJ9234753757	Endon
174	SJ9243953785	Endon
193	SJ9232953088	Endon
220	SJ9231752723	Endon
86	SJ9381544908	Hulme
133	SK0204049400	Ipstones
134	SK0193350260	Ipstones
135	SK0188250027	Ipstones
136	SK0194150178	Ipstones
137	SK0181149847	Ipstones
0	SK0092046830	Kingsley
1	SK0150446775	Kingsley
14	SK0081947151	Kingsley
69	SK0071947187	Kingsley
93	SK0071246691	Kingsley
91	SK0213746279	Kingsley Holt
92	SK0215546496	Kingsley Holt
29	SJ9950255906	Leek



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FID Site Reference	O.S Grid References	Settlement
30	SJ9845055465	Leek
31	SJ9825356486	Leek
32	SJ9917756326	Leek
33	SJ9731556915	Leek
34	SJ9994756525	Leek
35	SJ9975456096	Leek
36	SJ9952357025	Leek
37	SJ9914456671	Leek
38	SJ9730157262	Leek
39	SJ9982056379	Leek
40	SJ9971255936	Leek
41	SJ9976256649	Leek
42	SJ9899157299	Leek
43	SJ9728555122	Leek
44	SJ9878654441	Leek
45	SJ9891657223	Leek
72	SJ9985356817	Leek
73	SJ9984757059	Leek
192	SJ9998157475	Leek
197	SJ9773456035	Leek
198	SJ9820256278	Leek
199	SJ9891256450	Leek
200	SJ9924656572	Leek
201	SJ9898656763	Leek
202	SJ9799056671	Leek
207	SJ9882855363	Leek
222	SJ9895956654	Leek
227	SJ9890357395	Leek
228	SJ9899256048	Leek
229	SJ9907156311	Leek
230	SJ9865756020	Leek
163	SJ9833753558	Leekbrook
208	SJ9944753737	Leekbrook
164	SJ9619754617	Longsdon
81	SK0166138654	Lower Tean
82	SK0156138708	Lower Tean
83	SK0163638547	Lower Tean
175	SK0562444776	Oakamoor
176	SK0567844865	Oakamoor
177	SK0558645030	Oakamoor
178	SK0552645134	Oakamoor



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FID Site Reference	O.S Grid References	Settlement
170	SJ9537657801	Rudyard
171	SJ9525158033	Rudyard
165	SJ9405162341	Rushton Spencer
166	SJ9384762537	Rushton Spencer
167	SJ9385862340	Rushton Spencer
168	SJ9382162433	Rushton Spencer
94	SK9144152309	Stockton Brook
95	SJ9197251986	Stockton Brook
62	SK0072439674	Upper Tean
63	SK0078639670	Upper Tean
64	SK0130240275	Upper Tean
65	SK0106839625	Upper Tean
66	SK0127339213	Upper Tean
67	SK0115739267	Upper Tean
68	SK0158039563	Upper Tean
203	SK0061411060	Upper Tean
138	SK0754350605	Waterhouses
139	SK0766550656	Waterhouses
205	SK0768650548	Waterhouses
9	SJ9567347965	Werrington and Cellarhead
10	SJ9430547450	Werrington and Cellarhead
11	SJ9420447415	Werrington and Cellarhead
12	SJ9403047302	Werrington and Cellarhead
13	SJ9397447574	Werrington and Cellarhead
15	SJ9339547874	Werrington and Cellarhead
16	SJ9324147850	Werrington and Cellarhead
71	SJ9442447835	Werrington and Cellarhead
214	SJ9571947337	Werrington and Cellarhead
215	SJ9552047156	Werrington and Cellarhead
216	SJ9580747597	Werrington and Cellarhead































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FID Site Reference	O.S Grid References	Settlement
6	SJ9646949063	Wetley Rocks
7	SJ9643049157	Wetley Rocks
8	SJ9665648767	Wetley Rocks
169	SJ9639948854	Wetley Rocks
87	SK0419347228	Whiston
88	SK0364546993	Whiston
89	SK0402947256	Whiston
90	SK0385847020	Whiston














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Appendix 1: Phase 1 Habitat Survey colour codes









A	Woodland and scrub	B	Grassland and marsh
	1 Woodland		1 Acid grassland
	1 Broad-leaved		1 Unimproved  Orange
	1 Semi-natural  Green		2 Semi-proved  Orange
	2 Plantation  Green		2 Neutral grassland
	2 Coniferous		1 Unimproved  Orange
	1 Semi-natural  True Green		2 Semi-improved  Orange
	2 Plantation  True Green		3 Calcareous grassland
	3 Mixed		1 Unimproved  Orange
	1 Semi-natural  Green over true green		2 Semi-improved  Orange
	2 Plantation  Green over true green		4 Improved grassland  No colour
	2 Scrub		5 Marsh/marshy grassland  Purple over orange
	1 Dense/continuous  Green		*6 Poor semi-improved grassland (optional)  No colour
	2 Scattered  Green		
	3 Parkland.scattered trees		
	1 Broad-leaved  Green		
	2 Coniferous  True Green		
	3 Mixed  Green over true green		
	4 Recently-felled woodland		
	1 Broad-leaved  Green		
	2 Coniferous  True Green		
	3 Mixed  Green over true green		















C Tall herb and fern	
1 Bracken	
1 Continuous	 Terra cotta
2 Scattered	 Terra cotta
2 Upland species-rich ledges	 Terra cotta + target note
3 Other	
1 Tall ruderal	 Terra cotta
2 Non-ruderal	 Terra cotta

D Heathland	
1 Dry dwarf shrub heath	
1 Acid	 Yellow ochre
2 Basic	 Yellow ochre
2 Wet dwarf shrub heath	 Purple over yellow ochre
3 Lichen/bryophyte heath	 Yellow ochre
4 Montane heath/dwarf herb	 Yellow ochre
5 Dry heath/acid grassland mosaic	 Orange over yellow ochre
6 Wet heath/acid grassland mosaic	 Purple and orange over yellow ochre

E Mire	
1 Bog	
*6 Sphagnum bog	
*1 Blanket bog	 Purple
*2 Raised bog	 Purple
*7 Wet modified bog	 Purple
*8 Dry modified bog	 Purple
2 Flush and spring	
1 Acid/neutral flush	 Magenta
2 Basic flush	 Magenta
3 Bryophyte-dominated spring	 Target note
*3 Fen	 Magenta over purple
Optional codings:	
Basic	 Magenta over purple
*1 Valley mire	 Magenta over purple
*2 Basin mire	 Magenta over purple
*3 Flood-plain mire	 Magenta over purple
*4 Bare peat	 Purple

F Swamp, marginal and inundation	
1 Swamp	 Sky blue
2 Marginal and inundation	
1 Marginal vegetation	 Sky blue + target note
2 Inundation vegetation	 Sky blue

G	Open water		
	1 Standing water		Indigo blue
	Optional codings:		
	1 Eutrophic		Indigo blue
	2 Mesotrophic		Indigo blue
	3 Oligotrophic		Indigo blue
	4 Dystrophic		Indigo blue
	5 Marl		Indigo blue
	6 Brackish (*includes saline lagoons)		Indigo blue
	2 Running water		Indigo blue
	Optional codings:		
	1 Eutrophic	E	
	2 Mesotrophic	M	
	3 Oligotrophic	O	
	*4 Dystrophic	D	
	*5 Marl/tufa	C	
	*6 Brackish	B	

H	Coastland		
	1 Intertidal		
	1 Mud/sand	} Ordnance Survey symbols	
	2 Shingles/cobbles		
	3 Boulders/rocks		
	Codings for intertidal:		
	*1 Zostera beds	Zo	
	*2 Green algal beds	Ga	
	*3 Brown algal beds	Ba	
	2 Saltmarsh		
	3 Saltmarsh/dune interface		Pink + target note
	4 Scattered plants		Pink
	*6 Dense continuous		Pink
	3 Shingle above high tide mark	} Ordnance Survey symbols	
	4 Boulders/rocks above high tide mark		
	5 Strandline vegetation		Target note
	6 Sand dune		
	4 Dune slack		Indigo blue over flesh
	5 Dune grassland		Orange over flesh
	6 Dune heath		Yellow ochre over flesh
	7 Dune scrub		Green over flesh
	*8 Open dune		Flesh
	Maritime cliff and slope		
	1 Hard cliff		Scarlet red
	2 Soft cliff		Scarlet red
	*3 Crevice/ledge vegetation		Target note
	*4 Coastal grassland		Orange
	*5 Coastal heathland		Yellow ochre

I	Rock exposure and waste	
1 Natural		
1 Inland cliff		
1 Acid/neutral		Scarlet red
2 Basic		Scarlet red
2 Scree		
1 Acid/neutral		Scarlet red
2 Basic		Scarlet red
3 Limestone pavement		Scarlet red
4 Other exposure		
1 Acid/neutral		Scarlet red
2 Basic		Scarlet red
5 Cave		Scarlet red
2 Artificial		
1 Quarry		Scarlet red
2 Spoil		Scarlet red
3 Mine		Scarlet red
*4 Refuse-tip		Scarlet red

J	Miscellaneous	
1 Cultivated/disturbed land		
*1 Arable		No colour
*2 Amenity grassland		Canary yellow
*3 Ephemeral/short perennial		Black
*4 Introduced shrub		Terra cotta
2 Boundaries (mapping optional)		
1 Intact hedge		
*1 Native species-rich		Green
*2 Species-poor		Green
2 Defunct hedge		
*1 Native species-rich		Green
*2 Species-poor		Green
3 Hedge and trees		
*1 Native species-rich		Green
*2 Species-poor		Green
4 Fence		Black
5 Wall		Scarlet Red
6 Dry ditch		Indigo blue
*7 Boundary removed		Black
*8 Earth bank		Black
3 Built-up areas		
4 Caravan site		Black
*5 Sea wall (artificial material)		Black
*6 Buildings		Black
4 Bare ground		Black
5 Other habitat		Black + target note

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Appendix 2 - Generic and latin species list

<i>Abdera flexuosa</i>	insect - beetle	
<i>Acalles ptinoides</i>	insect - beetle	
<i>Acanthis cabaret</i>	Lesser Redpoll	
<i>Acronicta psi</i>	Grey Dagger	
<i>Acronicta rumicis</i>	Knot Grass	
<i>Acrotrichis (Acrotrichis) strandi</i>	insect - beetle	
<i>Actitis hypoleucos</i>	Common Sandpiper	
<i>Adscita statices</i>	Forester	
<i>Agabus (Gaurodytes) melanarius</i>	insect - beetle	
<i>Agrochola litura</i>	Brown-spot Pinion	
<i>Alcedo atthis</i>	Common Kingfisher	
<i>Allophyes oxyacanthae</i>	Green-brindled Crescent	
<i>Amphipoea oculea</i>	Ear Moth	
<i>Amphipyra tragopoginis</i>	Mouse Moth	
<i>Anas acuta</i>	Northern Pintail	
<i>Anas clypeata</i>	Northern Shoveler	
<i>Anas crecca</i>	Eurasian Teal	
<i>Anas platyrhynchos</i>	Mallard	
<i>Anas querquedula</i>	Garganey	
<i>Anas strepera</i>	Gadwall	
<i>Ancistrocerus parietinus</i>	insect - hymenopteran	
<i>Ancistrocerus parietum</i>	Wall Mason Wasp	
<i>Ancistrocerus trifasciatus</i>	insect - hymenopteran	
<i>Andrena (Andrena) apicata</i>	insect - hymenopteran	
<i>Andrena (Andrena) clarkella</i>	insect - hymenopteran	
<i>Andrena (Andrena) fucata</i>	insect - hymenopteran	
<i>Andrena (Andrena) fulva</i>	Tawny Mining Bee	
<i>Andrena (Andrena) lapponica</i>	insect - hymenopteran	
<i>Andrena (Andrena) praecox</i>	insect - hymenopteran	
<i>Andrena (Chlorandrena) humilis</i>	insect - hymenopteran	
<i>Andrena (Cnemidandrena) fuscipes</i>	insect - hymenopteran	
<i>Andrena (Cnemidandrena) nigriceps</i>	insect - hymenopteran	
<i>Andrena (Cnemidandrena) similima</i>	insect - hymenopteran	
<i>Andrena (Euandrena) bicolor</i>	Gwynne's Mining Bee	
<i>Andrena (Hoplendrena) scotica</i>	insect - hymenopteran	
<i>Andrena (Leucandrena) barbilabris</i>	insect - hymenopteran	
<i>Andrena (Melandrena) cineraria</i>	Grey Mining Bee	
<i>Andrena (Melandrena) nigroaenea</i>	insect - hymenopteran	
<i>Andrena (Micrandrena) minutula</i>	insect - hymenopteran	
<i>Andrena (Micrandrena) semilaevis</i>	insect - hymenopteran	
<i>Andrena (Notandrena) chrysoseles</i>	insect - hymenopteran	
<i>Andrena (Oreomelissa) coitana</i>	insect - hymenopteran	
<i>Andrena (Taeniandrena) similis</i>	insect - hymenopteran	
<i>Andrena (Trachandrena) haemorrhhoa</i>	Early Mining Bee	
<i>Anguis fragilis</i>	Slow-worm	
<i>Anoplius (Anoplius) concinnus</i>	insect - hymenopteran	
<i>Anser albifrons</i>	Greater White-fronted Goose	
<i>Anser albifrons subsp. albifrons</i>	European White-fronted Goose	
<i>Anser anser</i>	Greylag Goose	
<i>Anser brachyrhynchus</i>	Pink-footed Goose	

Appendix 2 - Generic and latin species list

<i>Anthus pratensis</i>	Meadow Pipit	
<i>Anthus spinoletta</i>	Water Pipit	
<i>Anthus trivialis</i>	Tree Pipit	
<i>Apamea remissa</i>	Dusky Brocade	
<i>Apis mellifera</i>	Honey Bee	
<i>Apus apus</i>	Common Swift	
<i>Arachnospila (Ammosphex) trivialis</i>	insect - hymenopteran	
<i>Arctia caja</i>	Garden Tiger	
<i>Arenaria interpres</i>	Ruddy Turnstone	
<i>Argogorytes mystaceus</i>	insect - hymenopteran	
<i>Argynnis adippe</i>	High Brown Fritillary	
<i>Aricia artaxerxes</i>	Northern Brown Argus	
<i>Armadillidium pictum</i>	crustacean	
<i>Arvicola amphibius</i>	European Water Vole	
<i>Asio flammeus</i>	Short-eared Owl	
<i>Atethmia centrigo</i>	Centre-barred Sallow	
<i>Atheta aquatilis</i>	insect - beetle	
<i>Austropotamobius pallipes</i>	Freshwater White-clawed Crayfish	
<i>Aythya ferina</i>	Common Pochard	
<i>Aythya fuligula</i>	Tufted Duck	
<i>Aythya marila</i>	Greater Scaup	
<i>Bembidion (Diplocampa) clarkii</i>	insect - beetle	
<i>Bembidion (Notaphus) obliquum</i>	insect - beetle	
<i>Bembidion (Ocydromus) monticola</i>	insect - beetle	
<i>Beris fuscipes</i>	a true fly	
<i>Blepharita adusta</i>	Dark Brocade	
<i>Boloria selene</i>	Small Pearl-bordered Fritillary	
<i>Bombus</i>	a bumble bee	
<i>Bombus lucorum</i>	White-tailed Bumble Bee	
<i>Bombus magnus</i>	Northern White-tailed Bumble Bee	
<i>Bombus terrestris</i>	Buff-tailed Bumble Bee	
<i>Bombus (Megabombus) hortorum</i>	Small Garden Bumble Bee	
<i>Bombus (Melanobombus) lapidarius</i>	Large Red Tailed Bumble Bee	
<i>Bombus (Psithyrus) campestris</i>	Field Cuckoo Bee	
<i>Bombus (Psithyrus) sylvestris</i>	Four Coloured Cuckoo Bee	
<i>Bombus (Psithyrus) vestalis</i>	Vestal Cuckoo Bee	
<i>Bombus (Pyrobombus) hypnorum</i>	Tree Bumble Bee	
<i>Bombus (Pyrobombus) jonellus</i>	Heath Bumble Bee	
<i>Bombus (Pyrobombus) monticola</i>	Mountain Bumble Bee	
<i>Bombus (Pyrobombus) pratorum</i>	Early Bumble Bee	
<i>Bombus (Thoracobombus) pascuorum</i>	Common Carder-bee	
<i>Botaurus stellaris</i>	Great Bittern	
<i>Brachylomia viminalis</i>	Minor Shoulder-knot	
<i>Brachyopa pilosa</i>	a true fly	
<i>Brachysomus echinatus</i>	insect - beetle	
<i>Branta bernicla</i>	Brent Goose	
<i>Branta bernicla subsp. bernicla</i>	Dark-bellied Brent Goose	
<i>Branta leucopsis</i>	Barnacle Goose	
<i>Bucephala clangula</i>	Common Goldeneye	
<i>Bufo bufo</i>	Common Toad	

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<i>Burhinus oedicnemus</i>	Stone-curlew	
<i>Calcarius lapponicus</i>	Lapland Longspur	
<i>Calidris alpina</i>	Dunlin	
<i>Calidris canutus</i>	Red Knot	
<i>Calidris maritima</i>	Purple Sandpiper	
<i>Calidris pugnax</i>	Ruff	
<i>Calidris temminckii</i>	Temminck's Stint	
<i>Callitriche palustris</i>	Narrow-fruited Water-starwort	
<i>Cantharis obscura</i>	insect - beetle	
<i>Caprimulgus europaeus</i>	European Nightjar	
<i>Celaena haworthii</i>	Haworth's Minor	
<i>Chalcosyrphus eunotus</i>	a true fly	
<i>Charadrius hiaticula</i>	Ringed Plover	
<i>Charadrius morinellus</i>	Eurasian Dotterel	
<i>Cheilosia soror</i>	a true fly	
<i>Chesias legatella</i>	Streak	
<i>Chiasmia clathrata</i>	Latticed Heath	
<i>Chlidonias niger</i>	Black Tern	
<i>Chroicocephalus ridibundus</i>	Black-headed Gull	
<i>Circus aeruginosus</i>	Eurasian Marsh Harrier	
<i>Circus cyaneus</i>	Hen Harrier	
<i>Circus pygargus</i>	Montagu's Harrier	
<i>Cladonia chlorophaea</i>	lichen	
<i>Clangula hyemalis</i>	Long-tailed Duck	
<i>Clinopodium acinos</i>	Basil Thyme	
<i>Coccothraustes coccothraustes</i>	Hawfinch	
<i>Coenonympha pamphilus</i>	Small Heath	
<i>Colletes (Colletes) succinctus</i>	insect - hymenopteran	
<i>Columba oenas</i>	Stock Dove	
<i>Coturnix coturnix</i>	Common Quail	
<i>Crabro cribrarius</i>	Slender Bodied Digger Wasp	
<i>Crabro peltarius</i>	insect - hymenopteran	
<i>Crex crex</i>	Corn Crake	
<i>Crossocerus</i>	insect - hymenopteran	
<i>Crossocerus (Ablepharipus) podagricus</i>	insect - hymenopteran	
<i>Crossocerus (Blepharipus) annulipes</i>	insect - hymenopteran	
<i>Crossocerus (Blepharipus) cetratus</i>	insect - hymenopteran	
<i>Crossocerus (Blepharipus) megacephalus</i>	insect - hymenopteran	
<i>Crossocerus (Blepharipus) styrius</i>	insect - hymenopteran	
<i>Crossocerus (Blepharipus) walkeri</i>	insect - hymenopteran	
<i>Crossocerus (Crossocerus) distinguendus</i>	insect - hymenopteran	
<i>Crossocerus (Crossocerus) ovalis</i>	insect - hymenopteran	
<i>Crossocerus (Crossocerus) pusillus</i>	insect - hymenopteran	
<i>Crossocerus (Crossocerus) tarsatus</i>	insect - hymenopteran	
<i>Crossocerus (Crossocerus) wesmaeli</i>	Wesmael's Digger Wasp	
<i>Crossocerus (Cuphopterus) dimidiatus</i>	Blunt Tailed Digger Wasp	
<i>Crossocerus (Hoplocrabro) quadrimaculatus</i>	insect - hymenopteran	
<i>Ctenophora pectinicornis</i>	a true fly	
<i>Cuculus canorus</i>	Common Cuckoo	
<i>Cupido minimus</i>	Small Blue	

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<i>Cygnus columbianus</i>	Tundra Swan	
<i>Cygnus columbianus subsp. bewickii</i>	Bewick's Swan	
<i>Cygnus columbianus subsp. columbianus</i>	Whistling Swan	
<i>Dasypolia templi</i>	Brindled Ochre	
<i>Delichon urbicum</i>	House Martin	
<i>Dendrocopos minor</i>	Lesser Spotted Woodpecker	
<i>Dendroxena quadrimaculata</i>	insect - beetle	
<i>Diarsia rubi</i>	Small Square-spot	
<i>Dicranomyia chorea</i>	a true fly	
<i>Diplocoelus fagi</i>	insect - beetle	
<i>Dipogon (Deuteragenia) bifasciatus</i>	insect - hymenopteran	
<i>Dipogon (Deuteragenia) variegatus</i>	insect - hymenopteran	
<i>Dochmonota clancula</i>	insect - beetle	
<i>Dolichovespula (Pseudovespula) norwegica</i>	Norwegian Wasp	
<i>Dolichovespula (Pseudovespula) sylvestris</i>	Tree Wasp	
<i>Ecliptopera silaceata</i>	Small Phoenix	
<i>Ectemnius (Clytochrysus) cavifrons</i>	insect - hymenopteran	
<i>Ectemnius (Hypocrabro) continuus</i>	insect - hymenopteran	
<i>Ectemnius (Metacrabro) cephalotes</i>	insect - hymenopteran	
<i>Egretta garzetta</i>	Little Egret	
<i>Emberiza calandra</i>	Corn Bunting	
<i>Emberiza citrinella</i>	Yellowhammer	
<i>Emberiza schoeniclus</i>	Reed Bunting	
<i>Ennomos erosaria</i>	September Thorn	
<i>Ennomos fuscantaria</i>	Dusky Thorn	
<i>Entephria caesiata</i>	Grey Mountain Carpet	
<i>Epirrhoe galiata</i>	Galium Carpet	
<i>Epuraea (Epuraea) angustula</i>	insect - beetle	
<i>Eremophila alpestris</i>	Horned Lark	
<i>Erinaceus europaeus</i>	West European Hedgehog	
<i>Erynnis tages</i>	Dingy Skipper	
<i>Ethmia quadrillella</i>	a moth	
<i>Eugnorisma glareosa</i>	Autumnal Rustic	
<i>Euphrasia arctica subsp. borealis</i>	a flowering plant	
<i>Euxoa tritici</i>	White-line Dart	
<i>Falco columbarius</i>	Merlin	
<i>Falco tinnunculus</i>	Common Kestrel	
<i>Ficedula hypoleuca</i>	Pied Flycatcher	
<i>Filago vulgaris</i>	Common Cudweed	
<i>Formica fusca</i>	Negro Ant	
<i>Formica lemani</i>	insect - hymenopteran	
<i>Fulmarus glacialis</i>	Northern Fulmar	
<i>Gallinago gallinago</i>	Common Snipe	
<i>Gavia immer</i>	Great Northern Diver	
<i>Gavia stellata</i>	Red-throated Diver	
<i>Genista tinctoria</i>	Dyer's Greenweed	
<i>Glossosoma intermedium</i>	Small Grey Sedge	
<i>Gnathoncus buyssoni</i>	insect - beetle	
<i>Graphiphora augur</i>	Double Dart	
<i>Grus grus</i>	Common Crane	

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<i>Hadroplontus trimaculatus</i>	insect - beetle	
<i>Haematopus ostralegus</i>	Eurasian Oystercatcher	
<i>Halictus (Halictus) rubicundus</i>	insect - hymenopteran	
<i>Helophorus (Helophorus) nanus</i>	insect - beetle	
<i>Hepialus humuli</i>	Ghost Moth	
<i>Hieracium acuminatum</i>	Tall Hawkweed	
<i>Hipparchia semele</i>	Grayling	
<i>Hirundo rustica</i>	Barn Swallow	
<i>Hydraecia micacea</i>	Rosy Rustic	
<i>Hydrocoloeus minutus</i>	Little Gull	
<i>Hylaeus (Spatulariella) hyalinatus</i>	insect - hymenopteran	
<i>Hylecoetus dermestoides</i>	insect - beetle	
<i>Involvulus cupreus</i>	insect - beetle	
<i>Juniperus communis</i>	Juniper	
<i>Jynx torquilla</i>	Eurasian Wryneck	
<i>Lagopus lagopus</i>	Willow Ptarmigan	
<i>Lagopus lagopus subsp. scotica</i>	Red Grouse	
<i>Lanius collurio</i>	Red-backed Shrike	
<i>Larus argentatus</i>	Herring Gull	
<i>Larus canus</i>	Common Gull	
<i>Larus fuscus</i>	Lesser Black-backed Gull	
<i>Larus fuscus subsp. graellsii</i>	a lesser black-backed gull	
<i>Larus hyperboreus</i>	Glaucous Gull	
<i>Larus marinus</i>	Great Black-backed Gull	
<i>Larus melanocephalus</i>	Mediterranean Gull	
<i>Larus michahellis</i>	Yellow-legged Gull	
<i>Larus michahellis subsp. michahellis</i>	Yellow-legged Gull	
<i>Lasioglossum (Dialictus) cupromicans</i>	insect - hymenopteran	
<i>Lasioglossum (Dialictus) leucopus</i>	insect - hymenopteran	
<i>Lasioglossum (Dialictus) smeachmanellum</i>	insect - hymenopteran	
<i>Lasioglossum (Evylaeus) albipes</i>	insect - hymenopteran	
<i>Lasioglossum (Evylaeus) calceatum</i>	Slender Mining Bee	
<i>Lasioglossum (Evylaeus) fratellum</i>	insect - hymenopteran	
<i>Lasioglossum (Evylaeus) fulvicorne</i>	insect - hymenopteran	
<i>Lasioglossum (Evylaeus) nitidiusculum</i>	Neat Mining Bee	
<i>Lasioglossum (Evylaeus) pauxillum</i>	insect - hymenopteran	
<i>Lasioglossum (Evylaeus) punctatissimum</i>	insect - hymenopteran	
<i>Lasioglossum (Evylaeus) rufitarse</i>	insect - hymenopteran	
<i>Lasioglossum (Evylaeus) villosulum</i>	Shaggy Mining Bee	
<i>Lasioglossum (Lasioglossum) xanthopus</i>	Yellow Footed Mining Bee	
<i>Lasiommata megera</i>	Wall	
<i>Lasius flavus</i>	Yellow Meadow Ant	
<i>Lasius niger</i>	insect - hymenopteran	
<i>Lasius niger</i>	Small Black Ant	
<i>Lathrobium (Tetartopeus) zetterstedti</i>	insect - beetle	
<i>Leccinum scabrum</i>	Brown Birch Bolete	
<i>Leptozepe borealis</i>	a true fly	
<i>Leptothorax acervorum</i>	Slender Ant	
<i>Lepus europaeus</i>	Brown Hare	
<i>Licinus depressus</i>	insect - beetle	

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<i>Limonia nigropunctata</i>	a true fly	
<i>Limosa lapponica</i>	Bar-tailed Godwit	
<i>Limosa limosa</i>	Black-tailed Godwit	
<i>Linaria cannabina</i>	Linnet	
<i>Linaria flavirostris</i>	Twite	
<i>Locustella naevia</i>	Common Grasshopper Warbler	
<i>Lolium temulentum</i>	Darnel	
<i>Longitarsus curtus</i>	insect - beetle	
<i>Lullula arborea</i>	Wood Lark	
<i>Luronium natans</i>	Floating Water-plantain	
<i>Luscinia megarhynchos</i>	Common Nightingale	
<i>Lutra lutra</i>	European Otter	
<i>Lymnocyrtus minimus</i>	Jack Snipe	
<i>Macaria wauaria</i>	V-moth	
<i>Megachile (Megachile) centuncularis</i>	insect - hymenopteran	
<i>Melanchra persicariae</i>	Dot Moth	
<i>Melanchra pisi</i>	Broom Moth	
<i>Melanitta nigra</i>	Common Scoter	
<i>Mellinus arvensis</i>	insect - hymenopteran	
<i>Meloe proscarabaeus</i>	Black Oil-beetle	
<i>Mentha pulegium</i>	Pennyroyal	
<i>Mergellus albellus</i>	Smew	
<i>Mesoligia literosa</i>	Rosy Minor	
<i>Micromys minutus</i>	Harvest Mouse	
<i>Milvus milvus</i>	Red Kite	
<i>Mimumesa dahlbomi</i>	insect - hymenopteran	
<i>Minuartia verna</i>	Spring Sandwort	
<i>Monocephalus castaneipes</i>	Broad Groove-head Spider	
<i>Monotropa hypopitys</i>	Yellow Bird's-nest	
<i>Morus bassanus</i>	Northern Gannet	
<i>Motacilla cinerea</i>	Grey Wagtail	
<i>Motacilla flava</i>	Yellow Wagtail	
<i>Motacilla flava subsp. flavissima</i>	Yellow Wagtail	
<i>Muscardinus avellanarius</i>	Hazel Dormouse	
<i>Muscicapa striata</i>	Spotted Flycatcher	
<i>Mustela putorius</i>	Polecat	
<i>Mustela putorius subsp. furo</i>	Ferret	
<i>Myllaena elongata</i>	insect - beetle	
<i>Myrmica rubra</i>	Red Ant	
<i>Myrmica ruginodis</i>	insect - hymenopteran	
<i>Myrmica scabrinodis</i>	insect - hymenopteran	
<i>Mythimna comma</i>	Shoulder-striped Wainscot	
<i>Natrix natrix</i>	Grass Snake	
<i>Nebrioporus (Nebrioporus) depressus</i>	insect - beetle	
<i>Neoascia obliqua</i>	a true fly	
<i>Nephrotoma crocata</i>	a true fly	
<i>Nomada fabriciana</i>	Fabricius' Nomad Bee	
<i>Nomada flava</i>	insect - hymenopteran	
<i>Nomada flavoguttata</i>	insect - hymenopteran	
<i>Nomada fulvicornis</i>	insect - hymenopteran	

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<i>Nomada goodeniana</i>	Gooden's Nomad Bee	
<i>Nomada leucophthalma</i>	insect - hymenopteran	
<i>Nomada marshamella</i>	Marsham's Nomad Bee	
<i>Nomada panzeri</i>	insect - hymenopteran	
<i>Nomada rufipes</i>	insect - hymenopteran	
<i>Numenius arquata</i>	Eurasian Curlew	
<i>Numenius phaeopus</i>	Whimbrel	
<i>Nyctalus noctula</i>	Noctule Bat	
<i>Nysson spinosus</i>	Large Spurred Digger Wasp	
<i>Oenanthe oenanthe</i>	Northern Wheatear	
<i>Oenanthe oenanthe subsp. oenanthe</i>	Wheatear	
<i>Omphiscola glabra</i>	mollusc	
<i>Orchesia minor</i>	insect - beetle	
<i>Orthonama vittata</i>	Oblique Carpet	
<i>Osmia (Osmia) rufa</i>	Red Mason Bee	
<i>Pandion haliaetus</i>	Osprey	
<i>Paraleptophlebia wernerii</i>	insect - mayfly (Ephemeroptera)	
<i>Passaloecus corniger</i>	Horned Black Wasp	
<i>Passaloecus gracilis</i>	insect - hymenopteran	
<i>Passaloecus singularis</i>	insect - hymenopteran	
<i>Passer domesticus</i>	House Sparrow	
<i>Passer montanus</i>	Eurasian Tree Sparrow	
<i>Pemphredon (Cemonus) inornata</i>	Shuckard's Wasp	
<i>Pemphredon (Pemphredon) lugubris</i>	Mournful Wasp	
<i>Perdix perdix</i>	Grey Partridge	
<i>Pernis apivorus</i>	European Honey-buzzard	
<i>Phalacrocorax aristotelis</i>	European Shag	
<i>Philhygra britteni</i>	insect - beetle	
<i>Phoenicurus ochruros</i>	Black Redstart	
<i>Phoenicurus phoenicurus</i>	Common Redstart	
<i>Phoenicurus phoenicurus subsp. phoenicurus</i>	Redstart	
<i>Phylloscopus sibilatrix</i>	Wood Warbler	
<i>Phylloscopus trochilus</i>	Willow Warbler	
<i>Picus viridis</i>	Green Woodpecker	
<i>Pipistrellus pipistrellus</i>	Common Pipistrelle	
<i>Pipistrellus pipistrellus s.l.</i>	Pipistrelle	
<i>Pipistrellus pygmaeus</i>	Soprano Pipistrelle	
<i>Placusa depressa</i>	insect - beetle	
<i>Plagiomnium ellipticum</i>	Marsh Thyme-moss	
<i>Platanthera bifolia</i>	Lesser Butterfly-orchid	
<i>Platanthera chlorantha</i>	Greater Butterfly-orchid	
<i>Platyrhinus resinosus</i>	insect - beetle	
<i>Plecotus auritus</i>	Brown Long-eared Bat	
<i>Plectrophenax nivalis</i>	Snow Bunting	
<i>Pluvialis apricaria</i>	European Golden Plover	
<i>Pluvialis squatarola</i>	Grey Plover	
<i>Podiceps auritus</i>	Slavonian Grebe	
<i>Podiceps grisegena</i>	Red-necked Grebe	
<i>Poecile montana</i>	Willow Tit	
<i>Poecile montana subsp. kleinschmidti</i>	a willow tit	

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<i>Poecile palustris</i>	Marsh Tit	
<i>Populus nigra</i> subsp. <i>betulifolia</i>	Native Black Poplar	
<i>Porphyrellus porphyrosporus</i>	Dusky Bolete	
<i>Prolita sexpunctella</i>	a moth	
<i>Prunella modularis</i>	Dunnock	
<i>Pseudanodonta complanata</i>	Depressed River Mussel	
<i>Pterostichus (Bothriopterus) quadrifoveolatus</i>	insect - beetle	
<i>Pterostichus (Pseudomaseus) gracilis</i>	insect - beetle	
<i>Pyrgus malvae</i>	Grizzled Skipper	
<i>Pyrochroa coccinea</i>	Black-headed Cardinal Beetle	
<i>Pyrrhula pyrrhula</i>	Common Bullfinch	
<i>Quedius (Microsaurus) scitus</i>	insect - beetle	
<i>Recurvirostra avosetta</i>	Pied Avocet	
<i>Regulus ignicapilla</i>	Firecrest	
<i>Rhabdiopteryx acuminata</i>	insect - stonefly (Plecoptera)	
<i>Rheumaptera hastata</i>	Argent and Sable	
<i>Rheumaptera hastata</i> form <i>hastata</i>	Argent & Sable	
<i>Rhizophagus (Rhizophagus) nitidulus</i>	insect - beetle	
<i>Rhopalum (Corynopus) coarctatum</i>	insect - hymenopteran	
<i>Rhopalum (Rhopalum) clavipes</i>	insect - hymenopteran	
<i>Riparia riparia</i>	Sand Martin	
<i>Rissa tridactyla</i>	Black-legged Kittiwake	
<i>Rubus intensor</i>	a flowering plant	
<i>Rubus obesifolius</i>	a flowering plant	
<i>Rubus painteri</i>	a flowering plant	
<i>Rubus turritus</i>	a flowering plant	
<i>Rumex alpinus</i>	Monk's-rhubarb	
<i>Salmo trutta</i> subsp. <i>fario</i>	Brown Trout	
<i>Satyrrium w-album</i>	White-letter Hairstreak	
<i>Saxicola rubetra</i>	Whinchat	
<i>Saxifraga hypnoides</i>	Mossy Saxifrage	
SciName	CommonName	
<i>Sciurus vulgaris</i>	Eurasian Red Squirrel	
<i>Scolopax rusticola</i>	Eurasian Woodcock	
<i>Scoparia ancipitella</i>	a moth	
<i>Scotopteryx bipunctaria</i>	Chalk Carpet	
<i>Scotopteryx chenopodiata</i>	Shaded Broad-bar	
<i>Serinus serinus</i>	European Serin	
<i>Somateria mollissima</i>	Common Eider	
<i>Spergula arvensis</i>	Corn Spurrey	
<i>Sphecodes ephippius</i>	insect - hymenopteran	
<i>Sphecodes geoffrellus</i>	insect - hymenopteran	
<i>Sphecodes gibbus</i>	insect - hymenopteran	
<i>Sphecodes monilicornis</i>	insect - hymenopteran	
<i>Sphecodes pellucidus</i>	insect - hymenopteran	
<i>Sphecodes puncticeps</i>	insect - hymenopteran	
<i>Sphecodes spinulosus</i>	insect - hymenopteran	
<i>Spilomena beata</i>	insect - hymenopteran	
<i>Spilosoma lubricipeda</i>	White Ermine	
<i>Spilosoma luteum</i>	Buff Ermine	

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<i>Stellaria palustris</i>	Marsh Stitchwort	
<i>Sterna hirundo</i>	Common Tern	
<i>Sterna hirundo</i>	Common Tern	
<i>Sterna paradisaea</i>	Arctic Tern	
<i>Sterna sandvicensis</i>	Sandwich Tern	
<i>Sternula albifrons</i>	Little Tern	
<i>Stilbia anomala</i>	Anomalous	
<i>Streptopelia turtur</i>	European Turtle Dove	
<i>Sturnus vulgaris</i>	Common Starling	
<i>Sylvia communis</i>	Common Whitethroat	
<i>Sylvia undata</i>	Dartford Warbler	
<i>Symmorphus bifasciatus</i>	insect - hymenopteran	
<i>Tachybaptus ruficollis</i>	Little Grebe	
<i>Tadorna ferruginea</i>	Ruddy Shelduck	
<i>Tanyptera atrata</i>	a true fly	
<i>Tanyptera nigricornis</i>	a true fly	
<i>Tetrao tetrix</i>	Black Grouse	
<i>Tholera cespitis</i>	Hedge Rustic	
<i>Tholera decimalis</i>	Feathered Gothic	
<i>Timandra comae</i>	Blood-Vein	
<i>Tinodes dives</i>	a caddis fly	
<i>Tinodes rostocki</i>	a caddis fly	
<i>Tipula peliostigma</i>	a true fly	
<i>Tipula pseudovariipennis</i>	a true fly	
<i>Tringa erythropus</i>	Spotted Redshank	
<i>Tringa glareola</i>	Wood Sandpiper	
<i>Tringa ochropus</i>	Green Sandpiper	
<i>Tringa totanus</i>	Common Redshank	
<i>Triturus cristatus</i>	Great Crested Newt	
<i>Trypodendron signatum</i>	insect - beetle	
<i>Trypoxylon attenuatum</i>	Slender Wood Borer Wasp	
<i>Trypoxylon clavicerum</i>	Club Horned Wood Borer Wasp	
<i>Trypoxylon figulus</i>	insect - hymenopteran	
<i>Turdus iliacus</i>	Redwing	
<i>Turdus philomelos</i>	Song Thrush	
<i>Turdus pilaris</i>	Fieldfare	
<i>Turdus torquatus</i>	Ring Ouzel	
<i>Turdus viscivorus</i>	Mistle Thrush	
<i>Tyria jacobaeae</i>	Cinnabar	
<i>Tyto alba</i>	Barn Owl	
<i>Vanellus vanellus</i>	Northern Lapwing	
<i>Vespa crabro</i>	Hornet	
<i>Vespula (Paravespula) germanica</i>	German Wasp	
<i>Vespula (Paravespula) vulgaris</i>	Common Wasp	
<i>Vespula (Vespula) rufa</i>	Red Wasp	
<i>Viola tricolor</i>	Wild Pansy	
<i>Viola tricolor subsp. tricolor</i>	a flowering plant	
<i>Vipera berus</i>	Adder	
<i>Watsonalla binaria</i>	Oak Hook-tip	
<i>Xanthia gilvago</i>	Dusky-lemon Sallow	

Appendix 2 - Generic and latin species list

<i>Xanthia icteritia</i>	Sallow	
<i>Xanthorhoe decoloraria</i>	Red Carpet	
<i>Xestia agathina</i>	Heath Rustic	
<i>Xylena exsoleta</i>	Sword-grass	
<i>Xylota florum</i>	a true fly	
<i>Zootoca vivipara</i>	Common Lizard	



Appendix 3 - References

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