

UK Overseas Territories and Crown Dependencies: 2011 Biodiversity snapshot.

Isle of Man: Appendices.

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More information available at: www.gov.im/defa/

This section includes a series of appendices that provide additional information relating to that provided in the Isle of Man chapter of the publication: UK Overseas Territories and Crown Dependencies: 2011 Biodiversity snapshot.

All information relating to the Isle or Man is available at <http://jncc.defra.gov.uk/page-5819>

The entire publication is available for download at <http://jncc.defra.gov.uk/page-5821>

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Appendix 1: Multilateral Environmental Agreements

Basel	
CBD	*
CBD 2000 protocol on biosafety	
CITES	
CMS	
CMS ACCOBAMS	
CMS albatrosses and petrels	no Manx species listed
CMS ASCOBANS	
CMS Eurobats	
CMS AEWA	
London Convention	
OSPAR	
Ramsar	
UNFCCC/ Kyoto protocol	
ICRW (a)	?
ICRW (b)	?
ICPPSO	
ECPAIT	
MARPOL 73/78 Convention	excl IV and VI
CLTAP	see note **
Vienna Convention	
CEIA	
Protocol ICCLOPD	
Protocol ICCOPD	
UNC fishstocks	
UNESCO World Heritage Convention	
ICCAT	
Key	
	MEA extended and legislation and other implementation measures fully meet the MEA requirements
	MEA extended but only some elements of legislation or other implementation measures meet MEA requirements
	MEA not extended to the Territory
*	being progressed.

**

In relation to CLTAP it would appear that some Protocols have been extended to the island and the others have not:

The level of CBD implementation is being assessed, with a view to requesting extension later in the year (*update as necessary*).

Detailed assessment only available for CBD (2004) – that was revised (2010).

Appendix 2: National Wildlife Legislation

The earliest wildlife legislation was the 1867 Sea Gull Preservation Act, which conserved seagulls from those wishing to exploit their feathers, in appreciation for their role in cleaning up the sea from fisheries waste.

The Wild Birds Protection Act 1932,
Protection of Birds Act 1955,
Manx Museum and National Trust Act 1959
Destructive Imported Animals Act 1963
Wild Animals (Restriction on Importation) Act 1980
Endangered Species (Import and Export) Act 1981
Wildlife Act 1990,
Endangered Species Act 2010

Of these the most important is the Wildlife Act 1990. This Act protects birds, other animals and plants, controls introductions to the wild, enables marine and terrestrial site protection, controls the keeping of certain birds.

Appendix 3: Protected Areas

Under the Wildlife Act Government may designate;

- Areas of Special Scientific Interest (ASSI)
- National Nature Reserves
- Marine Nature Reserves
- Areas of special Protection for Birds, Plants or Animals

A List of protected areas with legal status is outlined below.

Map of protected areas outlined below.

The island is aiming to have at least 10% of the land area protected by ASSI designation.

Among the most important areas are the Ayres, Ballaugh Curragh and the Calf.

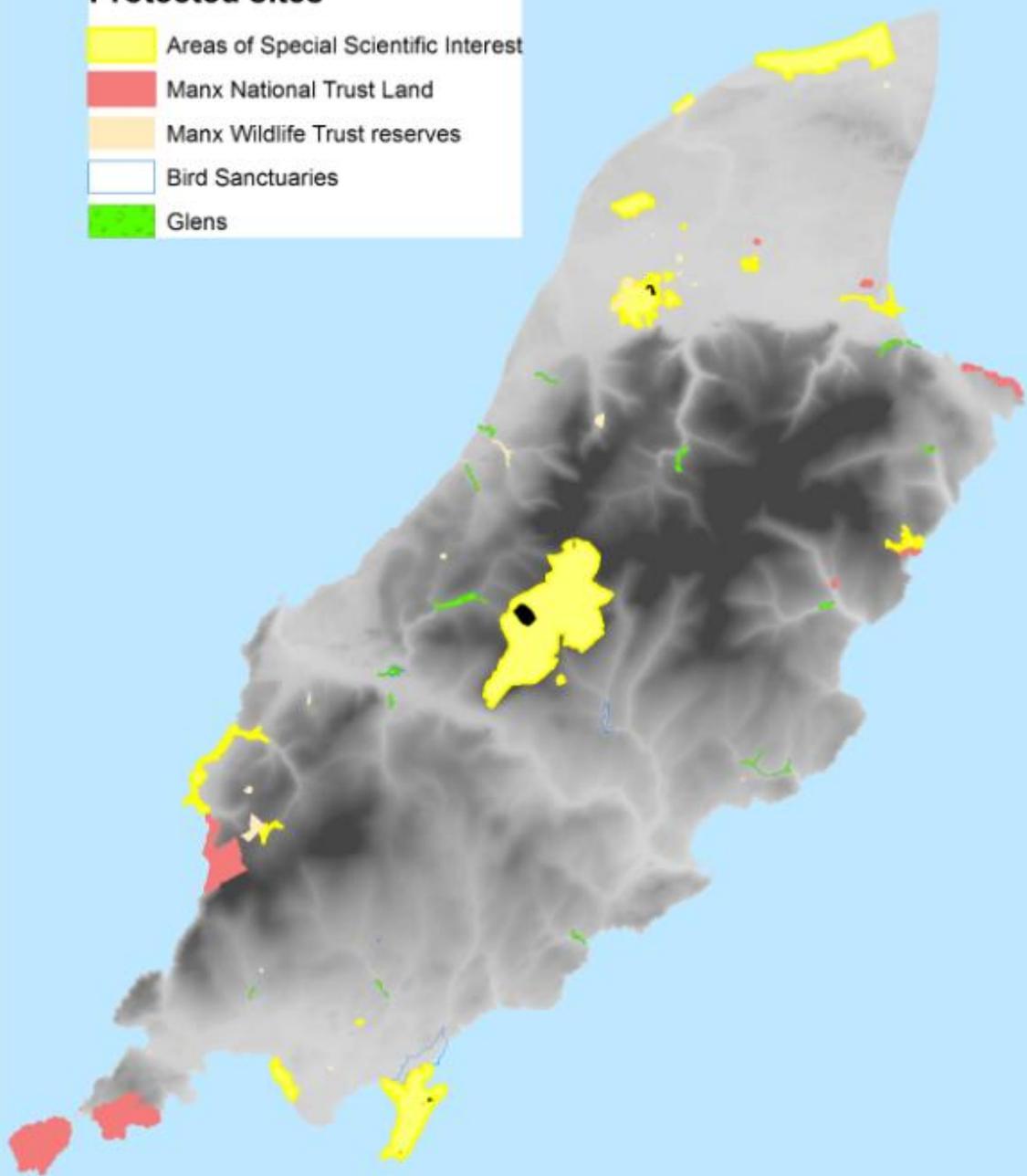
- The **Ayres National Nature Reserve** is wardened and managed for its conservation interest, especially breeding birds; little tern (*Sternula albifrons*), curlew (*Numenius arquata*), oystercatcher (*Haematopus ostralegus*) and ringed plover (*Charadrius hiaticula*). There are also rare invertebrates on the reserve; lesser bee fly (*Bombylius minor*), scarce crimson and gold moth (*Pyrausta sanguinalis*) and grayling butterfly (*Hipparchia semele*).
- In 2006 the **Ballaugh Curragh** was designated as a Ramsar site. It is an area of nearly 200 hectares of lowland deep peat with willow scrub, wet heath, pools and streams. It has legal protection through being an ASSI. Much of it is also Manx National Heritage and Manx Wildlife Trust land.
- **The Calf** is owned and managed by Manx National Heritage and is important for nesting seabirds; Manx Shearwater (*Puffinus puffinus*), Storm Petrel (*Hydrobates pelagicus*), Puffin (*Fratercula arctica*), as well as Chough (*Pyrrhocorax pyrrhocorax*), Hen Harrier (*Circus cyaneus*) and migrant birds. There is a Bird Observatory on the Calf which is manned for 6 months each year.

The Government plans to designate a **Marine Nature Reserve in 2011** and envisages a **network of marine protected areas** as well as fisheries management measures which will conserve the seabed and its biodiversity including fish and shellfish stocks.

Other land protected through ownership includes Manx Wildlife trust reserves the glens owned by DEFA and land owned by Manx National Heritage (also shown on map below).

Protected sites

-  Areas of Special Scientific Interest
-  Manx National Trust Land
-  Manx Wildlife Trust reserves
-  Bird Sanctuaries
-  Glens



**Department of Environment
Food and Agriculture**



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website: <http://www.gov.im/departmentofenvironment/geography.html>

Terrestrial protected areas with legal status							
	ASSI	Ramsar site	ASP	NNR	MNH Act	DAFF ownership	Bird Sanctuary
1. Central Ayres					some	some	
2. Langness, Derbyhaven and Sandwick					some		
3. Jurby Airfield							
4. Ballaugh Curragh					some		
5. Ballacrye Meadow							
6. Rosehill Quarry, Billown							
7. Ramsey Mooragh Shore							
8. Cronk y Bing							
9. Dhoon Glen					some	some	
10. Eary Vane							
11. Glen Rushen							
12. Poyll Vaish							
13. Glen Maye							
14. Greeba Mountain and the Central Hills							
15. Dalby Coast							
16. Ballachurry meadows							
17. Ramsey estuary							
18. Ayres gravel pit (Bride)							
19. Langness and Ronaldsway	blue						blue
20. Calf of Man							
21. West Baldwin							
22. St Johns Arboretum							

23. Barnel reservoir							
24. Ballamodha							
25. Maughold Head							
26. Marine Drive							
27. Spanish Head							
28. Eairy Cushlin							
29. Killabrega							
30. Blue Point							
Areas	2175 ha 5367 ac	193 ha 478 ac	4ha 10ac	272 ha 673 ac	>1200 ha >3000 ac		

Appendix 4: Institutional Arrangements

The Isle of Man, a self governing Crown Dependency with its own laws and its own parliament (Tynwald), founded over 1,000 years ago, is considered to be the oldest continuous parliament in the world. The Island is not part of the United Kingdom and has no representation in the British Parliament. The British Crown is ultimately responsible for the Island's external relations. The Isle of Man is not part of the European Union, but it has a limited relationship with the Union under Protocol 3 to the United Kingdom's Act of Accession in 1972. This allows for the free trade of agricultural and manufactured products across the EU (except for items transported or traded under the Convention on International Trade in Endangered Species, known as CITES). The Isle of Man is part of the European Common Customs Area so does not have a customs border post.

Government:

The **Department of Environment, Food and Agriculture** is responsible for statutory nature conservation, forest and upland management, fisheries protection, energy and climate change, environmental protection, air and water quality and pest control. It designates Areas of Special Scientific Interest, Marine Nature Reserves and National Nature Reserves. It leads the marine spatial planning group (of government departments) and biological recording partnership (with Manx National Heritage, the Manx Wildlife Trust and other partners). It is guided by the statutory Wildlife Committee (a scientific advisory committee). The Island has its own fisheries management zone out to 3 nautical miles (NM) and a shared fisheries management zone from 3 - 12 NM. There are 5 full time permanent posts in nature conservation delivery. The Department owns and manages 7,700 ha of land, mainly in the hills but including the Ayres National Nature Reserve.

Manx National Heritage (operating under the authority of the Manx Museum and National Trust Acts 1959-1986) exists independently by statute on behalf of the Manx Community to preserve, protect and communicate the unique qualities of the Manx natural and cultural heritage. There is one full time permanent post dealing with natural heritage. MNH also contracts seasonal staff running the Bird Observatory on the Calf of Man. It owns and manages around 1200 hectares of protected landscape.

Non-Governmental Organisations:

The **Manx Wildlife Trust** (founded in 1973) is the principal voluntary nature conservation body on the Isle of Man with concern for land, sea and fresh water environments. The Manx Wildlife Trust is part of the network of 47 Wildlife Trusts dedicated to the achievement of a Britain richer in wildlife and managed on sustainable principles. Sharing this goal and making a vital contribution are the junior branch, Wildlife Watch, and the local Wildlife Groups.

The Trust's aims are:

- To acquire and manage nature reserves, safe sites for wildlife, conserving some of the best habitats on the Isle of Man (20 reserves in 2010)
- To promote the knowledge and enjoyment of the Island's natural environment

- To take action when wildlife sites or species are threatened
- To carry out and promote scientific research
- To offer ecological expertise and advice

The Trust has 10 staff, which are 4 core staff, 3 contract staff employed on behalf of government, and 3 staff working on largely government funded projects. Their operational areas are

- Operation and maintenance of nature reserves
- Support and operation of community wildlife areas (3 at present)
- Biological recording
- Advisory services
- Ecological consultancy services
- Promotion and campaigning in promotion of wildlife and conservation issues
- Education to adults and children on wildlife and conservation Issues
- Collaborative Projects with Govt and other bodies; Wildflowers of Man Project, Education Project, Marine Officer Post, Wildlife Sites Project, Roadside Verge Project, Manx Basking Shark Watch.
- Contract Reserve Wardening

Manx Birdlife was started in 1998 as the Manx Bird Atlas. Its stated purpose is to work to conserve the Isle of Man's wild birds and their habitats through advocacy and by raising public awareness of conservation issues. They base their work on sound scientific research and actively seek partnerships to better achieve their conservation goals.

Its specific aims are

- Conservation action: Identify species and habitats in most need of conservation action and advocate for change in order to secure action to benefit them.
- Public awareness: Raise awareness of issues affecting biodiversity and the natural environment of the Isle of Man and influence decisions where necessary.
- Business Development: over the next five years, improve the financial stability of the charity by seeking funding from a variety of sources and increasing public support for its work through a range of activities.
- A current project is the Point of Ayre gravel pit restoration. The charity aims to use bequest monies as a basis for raising further capital to undertake a restoration of the gravel pits, including provision for controlled public access via hides and boardwalks.

In addition there are many other smaller conservation NGOs.

- Manx Bat Group
- Manx Whale and Dolphin Watch
- Manx Butterfly Conservation
- The Manx Antiquarian and Natural History Society
- Manx Ornithological Society
- Manx Woodland Trust

- Isle of Man Farming and Wildlife Advisory Group
- Manx Native Oak Group
- Manx Friends of the Earth
- Manx Game Preservation Society

Manx Conservation Forum

The conservation and countryside charities are represented on the Manx Conservation Forum, together with agricultural and fisheries producer groups. This was established by DEFA in 2009. The Forum's aims, as outlined in the terms of reference, are quoted below.

- a. Dialogue
 - An opportunity for NGOs to hear about and comment on DEFA's policies and priorities.
 - A focus for DEFA's consultation with wildlife and countryside NGOs.
 - An opportunity for DEFA to hear and comment on conservation and countryside groups' wildlife conservation priorities.
 - An opportunity for groups to discuss common areas of interest.
- b. Partnership of Government and Non-Government Organisations
 - Extending joint working to better progress biodiversity conservation on the Island, especially Convention on Biological Diversity work.
 - Initiating further joint projects.
- c. Promotion of biodiversity conservation
 - More effective promotion and publicity of conservation issues.
- d. Dissemination of scientific information
 - Encouraging the sharing of scientific information and facilitating regular science updates.
 - To assess what stage the Island is at with regard to wildlife conservation then to set targets and regularly report to the public on the progress made to meet those targets.

Appendix 5: Research priorities

The Island has its own research priorities as well as sharing regional priorities. These tend to focus on species of regional significance. In the marine field recent attention has focussed on basking sharks (*Cetorhinus maximus*), understanding their movements (by tagging) attempting to estimate their population size (using DNA analysis and fin ID) and recording their breeding behaviour. In 2006-07 Grey Seal census work was undertaken and regular monitoring is necessary.

The Island has a recently established (breeding since 1977) but important population of hen harrier (*Circus cyaneus*). Breeding numbers have been as high as 60 pairs (in 2004). The 2010 Census indicates a drop of approximately 50% since that of 2004 and research is required to understand their population changes and needs.

Following the publication of the 2007 Manx Bird Atlas, we are half way through the repeat breeding bird survey, (2006-15) which will create a sustainability index. This will enable breeding trends to be identified. Last winter work started on the repeat of the winter atlas. These will give Government unprecedented information about ecological change in the wider countryside.

Already work is going on to produce a red/amber bird list, which in turn will lead to identification of species specific or wider countryside research priorities.

Chough (*Pyrrhocorax pyrrhocorax*), have also received recent research attention. A study in the last decade focussed on the special qualities of Manx farmland which make it so good for feeding chough.

DNA analysis was been done to identify which of the Manx oaks are likely to be of native provenance (Native Oak Research group). There is scope to do similar work on other tree species, to assist native tree planting projects.

There is regular butterfly survey and moth trapping. Recent butterfly and moth arrivals have highlighted the importance of the Island as a stepping stone for range changes in moth and butterfly populations. There is further scope for monitoring and analysis of moth and butterfly records in their regional context.

Appendix 6: Ecosystem/habitats

The island is notable for the variety of habitats in a small area.

In the 1990s the terrestrial habitats and land use were mapped (using Phase 1 field survey techniques). Detail survey (phase 2) was done for areas of high ecological importance, in preparation for ASSI designation. See *habitat map....*

Most of the island is Manx slates with small areas of granite and an area of limestone around Castletown in the south. The hills and some small lowland areas have peat of varying depths. The northern plain is made up of glacial outwash gravels and sands.

Specific surveys and studies have been undertaken for the following terrestrial habitats;

- River corridor (Manx Wildlife Trust/Department of Transport, 1997-2000)
- Road verges (MWT/DOT, 1996)
- Ponds and dubs (DAFF - 2002)
- Coastal habitats (MWT - 1999)
- Hill land survey (MWT 1997)
- Sulby river PhD (2005)
- Saltmarsh PhD (2006)

A review of potential Ramsar sites by UKOTCF in 2005 identified 6 sites one of which is now designated. http://jncc.defra.gov.uk/PDF/ramsar_ukOT_Crowndep_reportfinal_0205.pdf

A Wetland Inventory was compiled in 2008.

Specific surveys have been undertaken for the following marine habitats;

- Intertidal (MWT - 1999 and DAFF - 2003)
- Sublittoral
- Horse mussel reefs (DAFF - 2007-2009)

Marine mapping was undertaken through sampling regular points on the seabed in 2008 by University of Wales (Bangor).

The habitats of regional significance include;

- Lichen heath at the Ayres
- Upland moorland (wet and dry)
- Seabird nesting cliffs (International Bird Area)
- Horse mussel reefs
- Vegetated fixed dunes (EU priority habitat)
- Temperate Atlantic wet heaths (EU priority habitat)
- Bog woodland (EU priority habitat)

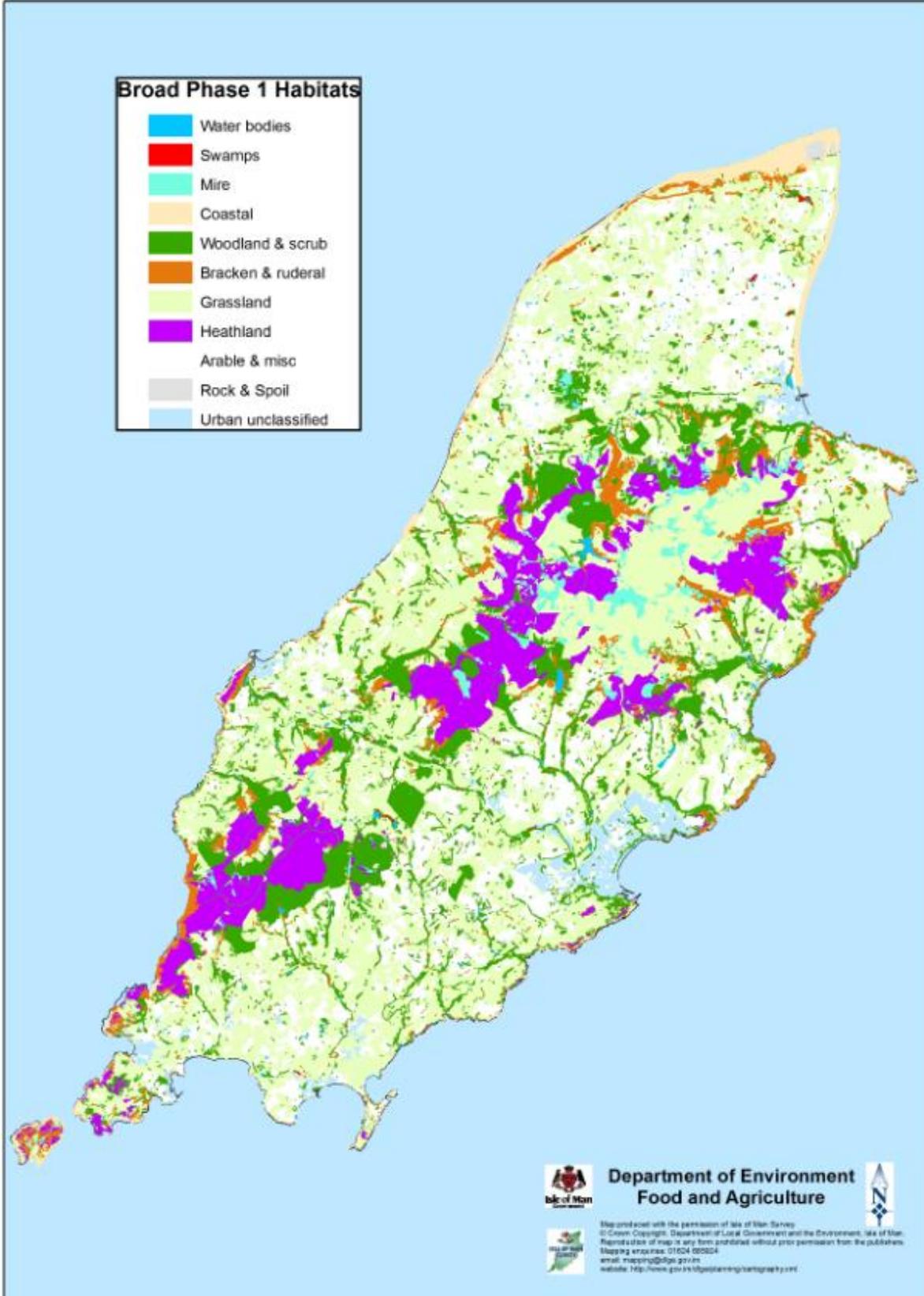
Among the most threatened habitats are

- Species – rich grasslands with various orchids (agricultural improvement and airport grassland management)
- Wet grasslands with breeding waders (agricultural improvement, abandonment and scrubbing over)
- Saltmarsh, estuarine mud and river mouths (marina/water retention developments as well as climate change)
- Mountain top vegetation (climate change)

Habitat	regionally	EU Annex I priority habitat	OSPAR	UK BAP priority	International Bird Area
Terrestrial Habitats					
upland moorland	*				
Atlantic decalcified fixed dunes (<i>Calluno-Ulicetea</i>)		in North		yes	
Fixed dunes with herbaceous vegetation ("grey dunes")					
temperate Atlantic wet heaths		scattered			
Wet Woodland/bog woodland		curragh		yes	
lichen heath	*				
blanket bog				yes	
Hedgerows				yes	
Inland Rock Outcrop and Scree Habitats				?	
Lowland Meadows				yes	
Maritime Cliff and Slopes				yes	IBA
Ponds				yes	
Lowland Fens				?	
Lowland Heathland				coastal heath and on granite (stony mountain)	

Purple Moor Grass and Rush Pastures				lowland and edge of uplands	
Reedbeds				small patches	
Rivers				Sulby - upland river type	
Upland Birchwoods				? Restoration	
Upland Flushes, Fens and Swamps				scattered	
Upland Heathland				extensive	
Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus excelsior</i>					
Marine Habitats					
sea grass beds			small areas	yes	
horse mussel reefs			significant areas in good condition	yes	
Blue mussel beds				yes	
mearl			significant areas in good condition	yes	
sabbelaria reefs			some areas	yes which species	Sabellaria alveolata reefs
intertidal mudflats			small areas	yes	
Coastal saltmarsh				small strips	
Coastal Vegetated Shingle				in north	
Cold-water coral reefs				around calf?	
Fragile sponge & anthozoan communities on subtidal rocky habitats	???			?	
Deep-sea sponge communities	???			?	
Mud habitats in deep water				?	

Subtidal sands and gravels				yes	
----------------------------	--	--	--	-----	--



Appendix 7: Species

As with all islands the species diversity is less than on the adjacent land masses. However the marine diversity is significant. Allen (1984) noted that “*in every plant and animal order (except the wholly freshwater ones) that has so far been adequately worked, with striking consistency Man proves to have two-thirds of the Irish total and two-fifths of the British*”.

It is also a feature of the Island that some species are only found at single sites and are therefore highly vulnerable. For this reason those with three or fewer sites are listed in schedule 7 (of the Wildlife Act 1990). These include such species as agrimony (*Agrimonia eupatoria*), bee orchid (*Ophrys apifera*) and spring sandwort (*Minuartia verna*).

The following tables list the native plants, invertebrates, fish, reptiles, amphibians, mammals and birds. Those listed in conventions, Red data book and protected species lists are indicated as well as if native. No species are considered endemic to the Isle of Man however there may be sub-species or Manx variants.

Table 1: Land Invertebrates

Group	Scientific Name	Common name	Local Name	Native	Endemic	Red List	Butterfly Conservation Category	UK BAP	Protected	Comments	breeding birds
Butterflies	<i>Colias croceus</i>	Clouded Yellow		Yes	no						
	<i>Pieris brassicae</i>	Large White		Yes	no						
	<i>Pieris rapae</i>	Small White		Yes	no						
	<i>Pieris napi</i>	Green Veined White		Yes	no						
	<i>Anthocharis cardamines</i>	Orange Tip		Yes	no						
	<i>Lycaena phlaeas</i>	Small Copper		Yes	no						
	<i>Polyommatus icarus</i>	Common Blue		Yes	no						
	<i>Celastrina argiolus</i>	Holly Blue		Yes	no					Protect ed NI	
	<i>Vanessa atalanta</i>	Red Admiral		Yes	no						
	<i>Vanessa cardui</i>	Painted Lady		Yes	no						
	<i>Aglais urticae</i>	Small Tortoiseshell		Yes	no		Low but concern over recent decline				
	<i>Inachis io</i>	Peacock		Yes	no						
	<i>Polygonia c-album</i>	Comma		Yes	no						
	<i>Argynnis aglaja</i>	Dark Green Fritillary		Yes	no		Medium				
	<i>Pararge aegeria</i>	Speckled Wood		Yes	no						
	<i>Lasiommata megera</i>	Wall		Yes	no		High	Priority for research			
	<i>Hipparchia semele</i>	Grayling		Yes	no		High	Priority			
	<i>Maniola jurtina</i>	Meadow Brown		Yes	no						
	<i>Coenonympha pamphilus</i>	Small Heath		Yes	no	yes	High	Priority for research			
				Yes	no						
				Yes	no						
				Yes	no						
				Yes	no						

	<i>Bombylius minor</i>	heath beefly		Yes	no	vulnerable			yes		
	<i>Chirocephalus diaphanus</i>	Fairy shrimp*		Yes	no	vulnerable			yes		
				Yes	no						
				Yes	no						
				Yes	no						
				Yes	no						
moth		swordgrass		Yes	no	yes					
	<i>Pyrausta sanguinalis</i>	Scarce crimson and gold moth		Yes	no	endangered			yes		
	<i>Hadena caesia mananii</i>	grey moth		Yes	no	rare			yes		
				Yes	no						
				Yes	no						
Odonata	<i>Aeshna grandis</i>	Brown Hawker		Yes	no						
	<i>Aeshna juncea</i>	Common Hawker		Yes	no						
	<i>Aeshna mixta</i>	Migrant Hawker		Yes	no						
	<i>Anax imperator</i>	Emperor Dragonfly		Yes	no						
	<i>Cordulegaster boltonii</i>	Golden-ringed dragonflies		Yes	no						
	<i>Cordulia aenea</i>	Downy Emerald		Yes	no					1 record	
	<i>Enallagma cyathigerum</i>	Common Blue Damselfly		Yes	no						
	<i>Ischnura elegans</i>	Blue-Tailed Damselfly		Yes	no						
	<i>Lestes sponsa</i>	Emerald Damselfly		Yes	no						
	<i>Libellula quadrimaculata</i>	Four-spotted Chaser		Yes	no						
	<i>Orthetrum coerulescens</i>	Keeled Skimmer		Yes	no					1 record	
	<i>Pyrhosoma nymphula</i>	Large Red Damselfly		Yes	no						
	<i>Sympetrum danae</i>	Black Darter		Yes	no						
	<i>Sympetrum fonscolombi</i>	Red-Veined Darter		Yes	no					2 records	73
	<i>Sympetrum sanguineum</i>	Ruddy Darter		Yes	no					2 records	
	<i>Sympetrum striolatum</i>	Common Darter		Yes	no						

				Yes	no						
Orthoptera	<i>Chorthippus brunneus</i>	Field Grasshopper		Yes	no						
	<i>Leptophyes punctatissima</i>	Speckled Bush-cricket		Yes	no				yes		
	<i>Myrmeleotettix maculatus</i>	Mottled Grasshopper		Yes	no						
	<i>Omocestus viridulus</i>	Common Green Grasshopper		Yes	no						
	<i>Pholidoptera griseoaptera</i>	Dark Bush Cricket		Yes	no				yes		
	<i>Tetrix undulata</i>	Common Ground-hopper		Yes	no						
	<i>Stenobothrus stigmaticus</i>	Lesser Mottled Grasshopper		Yes	no				yes		
				Yes	no						
Mollusca	<i>Acicula fusca</i>			Yes	no					1 record	
	<i>Aegopinella nitidula</i>			Yes	no						
	<i>Aegopinella pura</i>			Yes	no						
	<i>Ancylus fluviatilis</i>	River limpets		Yes	no					1 record	
	<i>Anodonta anatina</i>	Swan mussels, etc		Yes	no					1 record	
	<i>Arion ater</i>	Great Black Slug		Yes	no						
	<i>Arion circumscriptus seg.</i>	Dotted Slug		Yes	no						
	<i>Arion distinctus</i>	Common Garden Slug		Yes	no						
	<i>Arion fasciatus</i>	Bourguignat's Slug		Yes	no					1 record	
	<i>Arion hortensis</i>	Southern Garden Slug		Yes	no					1 record	
	<i>Arion intermedius</i>	Hedgehog Slug		Yes	no						
	<i>Arion silvaticus</i>	Silver Slug		Yes	no					1 record	
	<i>Arion subfuscus</i>	Dusky Slug		Yes	no						
	<i>Armiger crista</i>	Nautilus Ramshorn		Yes	no					1 record	
	<i>Balea perversa</i>			Yes	no						
	<i>Candidula intersepta</i>			Yes	no						
	<i>Carychium minimum seg.</i>			Yes	no						
	<i>Cepaea hortensis</i>			Yes	no						
	<i>Cepaea nemoralis</i>	Brown Lipped Snail		Yes	no						

	<i>Clausilia bidentata</i>		Yes	no							
	<i>Cochlicella acuta</i>		Yes	no						1 record	
	<i>Cochlicopa lubrica</i>		Yes	no							
	<i>Columella aspera</i>		Yes	no							
	<i>Deroceras caruanae</i>	Chestnut Slug	Yes	no							
	<i>Deroceras laeve</i>	Marsh Slug	Yes	no							
	<i>Deroceras reticulatum</i>	Netted Slug	Yes	no							
	<i>Discus rotundatus</i>	Rounded Snail	Yes	no							
	<i>Euconulus alderi</i>		Yes	no							
	<i>Euconulus fulvus</i> agg.		Yes	no							
	<i>Helix aspersa</i>		Yes	no							
	<i>Lauria cylindracea</i>		Yes	no							
	<i>Leiostylia anglica</i>		Yes	no							
	<i>Limax marginatus</i>	Tree Slug	Yes	no							
	<i>Limax maximus</i>	Great Grey Slug	Yes	no						1 record	
	<i>Limax pseudoflavus</i>	Irish Yellow Slug	Yes	no							
	<i>Lymnaea peregra</i>	Pond snails	Yes	no							
	<i>Lymnaea stagnalis</i>	Great Pond Snail	Yes	no							
	<i>Lymnaea truncatula</i>		Yes	no							
	<i>Margaritifera margaritifera</i>	Freshwater Pearl Mussel	Yes	no						1 record	
	<i>Milax budapestensis</i>	Budapest Slug	Yes	no						1 record	
	<i>Milax gagates</i>	Smooth Jet Slug	Yes	no						1 record	
	<i>Nesovitrea hammonis</i>		Yes	no							
	<i>Oxychilus alliarius</i>	Garlic Snail	Yes	no							
	<i>Oxychilus cellarius</i>		Yes	no							
	<i>Planorbarius corneus</i>	Great Ramshorn Snail	Yes	no							
	<i>Planorbis planorbis</i>		Yes	no						1 record	
	<i>Potamopyrgus jenkinsi</i>	Jenkins' Spire Snail	Yes	no							
	<i>Punctum pygmaeum</i>		Yes	no							
	<i>Pupilla muscorum</i>		Yes	no							

	<i>Pyramidula rupestris</i>		Yes	no						
	<i>Trichia hispida</i>	Hairy Snail	Yes	no						
	<i>Trichia striolata</i>		Yes	no						
	<i>Vallonia excentrica</i>		Yes	no						
	<i>Vertigo antivertigo</i>		Yes	no						
	<i>Vertigo antivertigo</i>		Yes	no						
	<i>Vitrea contracta</i>		Yes	no						
	<i>Vitrina pellucida</i>		Yes	no					1 record	
	<i>Zenobiella subrufescens</i>	Brown Snail	Yes	no						
	<i>Zonitoides nitidus</i>		Yes	no						
			Yes	no						
Hemiptera	<i>Acalypta parvula</i>		Yes	no						
	<i>Acanthosoma haemorrhoidale</i>	Hawthorn Shieldbug	Yes	no						
	<i>Alnetoidea alneti</i>		Yes	no					1 record	
	<i>Anaptus major</i>		Yes	no					1 record	
	<i>Anthocoris nemoralis</i>		Yes	no						
	<i>Anthocoris nemorum</i>	Common Flower Bug	Yes	no						
	<i>Aphrodes albifrons</i>		Yes	no						
	<i>Aphrodes bicinctus</i>		Yes	no						
	<i>Callicorixa praeusta</i>		Yes	no						
	<i>Capsus ater</i>		Yes	no					1 record	
	<i>Chartoscirta cincta</i>		Yes	no					1 record	
	<i>Corixa panzeri</i>		Yes	no					1 record	
	<i>Corixa punctata</i>	Punctate Corixa	Yes	no						
	<i>Corizus hyoscyami</i>		Yes	no						
	<i>Cryptostemma alienum</i>		Yes	no					1 record	
	<i>Doratura stylata</i>		Yes	no					1 record	
	<i>Drymus brunneus</i>		Yes	no					1 record	
	<i>Drymus sylvaticus</i>		Yes	no						

	<i>Elasmostethus interstinctus</i>		Yes	no						1 record
	<i>Empicoris culiciformis</i>		Yes	no						1 record
	<i>Eupelix cuspidata</i>		Yes	no						
	<i>Gampsocoris punctipes</i>		Yes	no						1 record
	<i>Gastrodes abietum</i>		Yes	no						1 record
	<i>Gerris lacustris</i>	Common Pondskater	Yes	no						
	<i>Gerris thoracicus</i>		Yes	no						
	<i>Hebrus ruficeps</i>	Sphagnum Bug	Yes	no						1 record
	<i>Hesperocorixa castanea</i>		Yes	no						1 record
	<i>Hesperocorixa sahlbergi</i>		Yes	no						1 record
	<i>Hydrometra stagnorum</i>		Yes	no						
	<i>Javesella pellucida</i>		Yes	no						1 record
	<i>Leptopterna dolabrata</i>		Yes	no						1 record
	<i>Leptopterna ferrugata</i>		Yes	no						1 record
	<i>Livia juncorum</i>		Yes	no						
	<i>Lygocoris pabulinus</i>	Common Green Capsid	Yes	no						1 record
	<i>Macrodera micropterum</i>		Yes	no						
	<i>Macropsis fuscula</i>		Yes	no						1 record
	<i>Macustus grisescens</i>		Yes	no						
	<i>Megalonotus dilatatus</i>		Yes	no						
	<i>Megophthalmus scabripennis</i>		Yes	no						1 record
	<i>Neophilaenus lineatus</i>		Yes	no						
	<i>Nepa cinerea</i>	Water Scorpion	Yes	no						
	<i>Notonecta glauca</i>	Water boatmen	Yes	no						
	<i>Notonecta marmorea</i>		Yes	no						
	<i>Notonecta marmorea</i>		Yes	no						1 record
	<i>Notostira elongata</i>		Yes	no						1 record

	<i>Oncopsis flavicollis</i>		Yes	no						1 record
	<i>Oncopsis subangulata</i>		Yes	no						1 record
	<i>Orthops campestris</i>		Yes	no						1 record
	<i>Orthotylus ericetorum</i>		Yes	no						
	<i>Ossiannilossonola callosa</i>		Yes	no						1 record
	<i>Peritrechus geniculatus</i>		Yes	no						1 record
	<i>Philaenus spumarius</i>	Cuckoo-Spit Insect	Yes	no						
	<i>Piesma quadratum</i>		Yes	no						
	<i>Plesiodema pinetellum</i>		Yes	no						1 record
	<i>Plinthisus brevipennis</i>		Yes	no						1 record
	<i>Psylla peregrina</i>		Yes	no						1 record
	<i>Saldula saltatoria</i>	Common Shorebug	Yes	no						
	<i>Scolopostethus affinis</i>		Yes	no						1 record
	<i>Scolopostethus decoratus</i>		Yes	no						
	<i>Scolopostethus thomsoni</i>		Yes	no						
	<i>Sigara concinna</i>		Yes	no						1 record
	<i>Sigara distincta</i>		Yes	no						
	<i>Sigara dorsalis</i>		Yes	no						
	<i>Sigara falleni</i>		Yes	no						
	<i>Sigara lateralis</i>		Yes	no						1 record
	<i>Sigara nigrolineata</i>		Yes	no						1 record
	<i>Sigara venusta</i>		Yes	no						
	<i>Stenodema laevigatum</i>		Yes	no						
	<i>Stygnocoris fuliginus</i>		Yes	no						
	<i>Stygnocoris sabulosus</i>		Yes	no						1 record
	<i>Tingis cardui</i>	Spear Thistle Lacebug	Yes	no						
	<i>Trapezonotus arenarius</i>		Yes	no						1 record

	<i>Trioza urticae</i>			Yes	no							1 record
	<i>Ulopa reticulata</i>			Yes	no							1 record
				Yes	no							
Lepidoptera	<i>Abraxas grossulariata</i>	Magpie Moth		Yes	no							
	<i>Abraxas grossulariata</i>	Magpie		Yes	no							
	<i>Abraxas sylvata</i>	Clouded Magpie		Yes	no							
	<i>Abrostola trigemina</i>	Dark Spectacle		Yes	no							
	<i>Abrostola triplasia</i>	Dark Spectacle		Yes	no							
	<i>Acasis viretata</i>	Yellow-Barred Brindle		Yes	no							
	<i>Acherontia atropos</i>	Death's-head Hawk-moth		Yes	no							
	<i>Achlya flavicornis</i> subsp. <i>galbanus</i>	Yellow Horned		Yes	no							
	<i>Acleris abietana</i>			Yes	no							
	<i>Acleris cristana</i>			Yes	no							
	<i>Acleris sparsana</i>			Yes	no							
	<i>Acleris variegana</i>	Garden Rose Tortrix		Yes	no							
	<i>Acontia lucida</i>	Pale Shoulder		Yes	no							
	<i>Acronicta alni</i>	Alder Moth		Yes	no							
	<i>Acronicta leporina</i>	Miller		Yes	no							
	<i>Acronicta megacephala</i>	Poplar Grey		Yes	no							
	<i>Acronicta menyanthidis</i>	Light Knot Grass		Yes	no							
	<i>Acronicta psi</i>	Grey Dagger		Yes	no							
	<i>Acronicta rumicis</i>	Knot Grass		Yes	no							
	<i>Acronicta tridens</i>	Dark Dagger		Yes	no							
	<i>Actebia praecox</i>	Portland Moth		Yes	no							
	<i>Aglais urticae</i>	Small Tortoiseshell		Yes	no							
	<i>Agonopterix propinquella</i>			Yes	no							
	<i>Agriopis aurantiaria</i>	Scarce Umber		Yes	no							
	<i>Agriopis marginaria</i>	Dotted Border		Yes	no							
	<i>Agrius convolvuli</i>	Convolvulus Hawk-moth		Yes	no							
	<i>Agrochola circellaris</i>	Brick		Yes	no							

	<i>Agrochola helvola</i>	Flounced Chestnut		Yes	no								
	<i>Agrochola lota</i>	Red-line Quaker		Yes	no								
	<i>Agrochola lychnidis</i>	Beaded Chestnut		Yes	no								
	<i>Agrochola macilenta</i>	Yellow-Line Quaker		Yes	no								
	<i>Agrotis clavis</i>	Heart & Club		Yes	no								
	<i>Agrotis exclamationis</i>	Heart & Dart		Yes	no								
	<i>Agrotis ipsilon</i>	Dark Sword-grass		Yes	no								
	<i>Agrotis ripae</i>	Sand Dart		Yes	no								
	<i>Agrotis segetum</i>	Turnip Moth		Yes	no								
	<i>Agrotis trux</i> subsp. <i>lunigera</i>	Crescent Dart		Yes	no								
	<i>Agrotis vestigialis</i>	Archer's Dart		Yes	no								
	<i>Alcis repandata</i>	Mottled Beauty		Yes	no								
	<i>Alcis repandata</i> subsp. <i>sodorensum</i>	Mottled Beauty		Yes	no								
	<i>Allophyes oxyacanthae</i>	Green-brindled Crescent		Yes	no								
	<i>Alsophila aescularia</i>	March Moth		Yes	no								
	<i>Amphipoea lucens</i>	Large Ear		Yes	no								
	<i>Amphipoea oculea</i>	Ear Moth		Yes	no								
	<i>Amphipyra berbera</i> subsp. <i>svensson</i>	Svensson's Copper Underwing		Yes	no								
	<i>Amphipyra pyramidea</i>	Copper Underwing		Yes	no								
	<i>Amphipyra pyramidea</i> agg.	Copper Underwings		Yes	no								
	<i>Amphipyra tragopoginis</i>	Mouse Moth		Yes	no								
	<i>Anaplectoides prasina</i>	Green Arches		Yes	no								
	<i>Anarta melanopa</i>	Broad-bordered White Underwing		Yes	no								
	<i>Anthocharis cardamines</i>	Orange Tip		Yes	no								
	<i>Anthocharis cardamines</i>	Orange-tip		Yes	no								
	<i>Anthocharis cardamines</i> subsp. <i>britannica</i>	Orange-Tip		Yes	no								
	<i>Anthophila fabriciana</i>	Nettle-Tap		Yes	no								
	<i>Anticlea badiata</i>	Shoulder Stripe		Yes	no								
	<i>Anticlea derivata</i>	Streamer		Yes	no								
	<i>Antitype chi</i>	Grey Chi		Yes	no								

	Apamea crenata	Clouded-bordered Brindle		Yes	no							
	Apamea epomidion	Clouded Brindle		Yes	no							
	Apamea lithoxylea	Light Arches		Yes	no							
	Apamea monoglypha	Dark Arches		Yes	no							
	Apamea ophiogramma	Double Lobed		Yes	no							
	Apamea remissa	Dusky Brocade		Yes	no							
	Apamea scolopacina	Slender Brindle		Yes	no							
	Apamea sordens	Rustic Shoulder-knot		Yes	no							
	Apeira syringaria	Lilac Beauty		Yes	no							
	Aphantopus hyperantus	Ringlet		Yes	no							
	Aphomia sociella	Bee Moth		Yes	no							
	Aplasta ononaria	Rest Harrow		Yes	no							
	Aplocera plagiata	Treble-bar		Yes	no							
	Apocheima pilosaria	Pale Brindled Beauty		Yes	no							
	Aporophyla lueneburgensis	Northern Deep-brown Dart		Yes	no							
	Aporophyla nigra	Black Rustic		Yes	no							
	Archiearis parthenias	Orange Underwing		Yes	no							
	Arctia caja	Garden Tiger		Yes	no							
	Argynnis adippe	High Brown Fritillary		Yes	no							
	Argynnis aglaja	Dark Green Fritillary		Yes	no							
	Argynnis aglaja form aglaja	Dark Green Fritillary		Yes	no							
	Argynnis paphia	Silver-washed Fritillary		Yes	no							
	Atethmia centrigo	Centre-barred Sallow		Yes	no							
	Autographa bractea	Gold Spangle		Yes	no							
	Autographa gamma	Silver Y		Yes	no							
	Autographa jota	Plain Golden Y		Yes	no							
	Autographa pulchrina	Beautiful Golden Y		Yes	no							
	Axylia putris	Flame		Yes	no							
	Bembecia muscaeformis	Thrift Clearwing		Yes	no							
	Biston betularia	Peppered Moth		Yes	no							
	Biston strataria	Oak Beauty		Yes	no							

	<i>Blastobasis lignea</i>		Yes	no							
	<i>Bucculatrix maritima</i>		Yes	no							
	<i>Bupalus piniaria</i>	Bordered White	Yes	no							
	<i>Cabera exanthemata</i>	Common Wave	Yes	no							
	<i>Cabera pusaria</i>	Common White Wave	Yes	no							
	<i>Cacoecimorpha pronubana</i>	Carnation Tortrix	Yes	no							
	<i>Callistege mi</i>	Mother Shipton	Yes	no							
	<i>Calliteara pudibunda</i>	Pale Tussock	Yes	no							
	<i>Callophrys rubi</i>	Green Hairstreak	Yes	no							
	<i>Caloptilia rufipennella</i>		Yes	no							
	<i>Caloptilia syringella</i>		Yes	no							
	<i>Campaea margaritata</i>	Light Emerald	Yes	no							
	<i>Camptogramma bilineata</i>		Yes	no							
	<i>Camptogramma bilineata</i> subsp. <i>atlantica</i>	Yellow Shell	Yes	no							
	<i>Camptogramma bilineata</i> subsp. <i>bilineata</i>	Yellow Shell	Yes	no							
	<i>Capua vulgana</i>		Yes	no							
	<i>Caradrina clavipalpis</i>	Pale Mottled Willow	Yes	no							
	<i>Caradrina morpheus</i>	Mottled Rustic	Yes	no							
	<i>Catocala nupta</i>	Red Underwing	Yes	no							
	<i>Celaena haworthii</i>	Haworth's Minor	Yes	no							
	<i>Celaena leucostigma</i>	Crescent	Yes	no							
	<i>Celastrina argiolus</i>		Yes	no							
	<i>Celastrina argiolus</i>	Holly Blue	Yes	no							
	<i>Celastrina argiolus</i> subsp. <i>britannica</i>	Holly Blue	Yes	no							
	<i>Ceramica pisi</i>	Broom Moth	Yes	no							
	<i>Cerapteryx graminis</i>	Antler Moth	Yes	no							
	<i>Cerastis rubricosa</i>	Red Chestnut	Yes	no							
	<i>Cerura vinula</i>	Puss Moth	Yes	no							
	<i>Charanyca trigrammica</i>	Treble Lines	Yes	no							
	<i>Chesias legatella</i>	Streak	Yes	no							

	<i>Chloroclysta citrata</i>	Dark Marbled Carpet		Yes	no						
	<i>Chloroclysta miata</i>	Autumn Green Carpet		Yes	no						
	<i>Chloroclysta siterata</i>	Red-green Carpet		Yes	no						
	<i>Chloroclysta truncata</i>	Common Marbled Carpet		Yes	no						
	<i>Chloroclystis rectangulata</i>	Green Pug		Yes	no						
	<i>Chloroclystis v-ata</i>	V-pug		Yes	no						
	<i>Cidaria fulvata</i>	Barred Yellow		Yes	no						
	<i>Cilix glaucata</i>	Chinese Character		Yes	no						
	<i>Cleorodes lichenaria</i>	Brussels Lace		Yes	no						
	<i>Clepsia consimilana</i>			Yes	no						
	<i>Cochylidia rupicola</i>			Yes	no						
	<i>Coenonympha pamphilus</i>	Small Heath		Yes	no						
	<i>Coleophora mayrella</i>			Yes	no						
	<i>Colias croceus</i>	Clouded Yellow		Yes	no						
	<i>Colocasia coryli</i>	Nut-tree Tussock		Yes	no						
	<i>Colostygia multistrigaria</i>	Mottled Grey		Yes	no						
	<i>Colostygia pectinataria</i>	Green Carpet		Yes	no						
	<i>Colotois pennaria</i>	Feathered Thorn		Yes	no						
	<i>Conistra vaccinii</i>	Chestnut		Yes	no						
	<i>Cosmia trapezina</i>	Dun-bar		Yes	no						
	<i>Cosmorhoe ocellata</i>	Purple Bar		Yes	no						
	<i>Crocallis elinguaris</i>	Scalloped Oak		Yes	no						
	<i>Cryphia domestica</i>	Marbled Beauty		Yes	no						
	<i>Cucullia absinthii</i>	Wormwood		Yes	no						
	<i>Cucullia chamomillae</i>	Chamomile Shark		Yes	no						
	<i>Cucullia umbratica</i>	Shark		Yes	no						
	<i>Cybosia mesomella</i>	Four-dotted Footman		Yes	no						
	<i>Cyclophora albipunctata</i>	Birch Mocha		Yes	no						
	<i>Cynthia cardui</i>	Painted Lady		Yes	no						
	<i>Danaus plexippus</i>	Milkweed		Yes	no						
	<i>Daphnis nerii</i>	Oleander Hawk-moth		Yes	no						

	<i>Dasypolia templi</i>	Brindled Ochre		Yes	no						
	<i>Deilephila elpenor</i>	Elephant Hawk-moth		Yes	no						
	<i>Deilephila porcellus</i>	Small Elephant Hawk-moth		Yes	no						
	<i>Deileptenia ribeata</i>	Satin Beauty		Yes	no						
	<i>Deltote uncula</i>	Silver Hook		Yes	no						
	<i>Diachrysia chrysitis</i>	Burnished Brass		Yes	no						
	<i>Diacrisia sannio</i>	Clouded Buff		Yes	no						
	<i>Diarsia brunnea</i>	Purple Clay		Yes	no						
	<i>Diarsia mendica</i>			Yes	no						
	<i>Diarsia mendica</i> subsp. <i>mendica</i>	Ingrailed Clay		Yes	no						
	<i>Diarsia rubi</i>	Small Square-spot		Yes	no						
	<i>Dichonia aprilina</i>	Merveille Du Jour		Yes	no						
	<i>Diloba caeruleocephala</i>	Figure of Eight		Yes	no						
	<i>Diorcytria abietella</i>			Yes	no						
	<i>Discestra trifolii</i>	Nutmeg		Yes	no						
	<i>Ditula angustiorana</i>	Red-Barred Tortrix		Yes	no						
	<i>Drepana binaria</i>	Oak Hook-Tip		Yes	no						
	<i>Drepana falcataria</i>	Pebble Hook-tip		Yes	no						
	<i>Drepana falcataria</i> subsp. <i>falcataria</i>	Pebble Hook-tip		Yes	no						
	<i>Dryobotodes eremita</i>	Brindled Green		Yes	no						
	<i>Dyscia fagaria</i>	Grey Scalloped Bar		Yes	no						
	<i>Ecliptopera silaceata</i>	Small Phoenix		Yes	no						
	<i>Ectropis bistortata</i>	Engrailed		Yes	no						
	<i>Ectropis crepuscularia</i>	Small Engrailed		Yes	no						
	<i>Eilema complana</i>	Scarce Footman		Yes	no						
	<i>Eilema lurideola</i>	Common Footman		Yes	no						
	<i>Elachista apicipunctella</i>			Yes	no						
	<i>Electrophaes corylata</i>	Broken-barred Carpet		Yes	no						
	<i>Eligmodonta ziczac</i>	Pebble Prominent		Yes	no						
	<i>Ematurga atomaria</i>	Common Heath		Yes	no						

	<i>Endrosis sarcitrella</i>	White-Shouldered House Moth		Yes	no						
	<i>Ennomos alniaria</i>	Canary-shouldered Thorn		Yes	no						
	<i>Ennomos quercinaria</i>	August Thorn		Yes	no						
	<i>Entephria caesiata</i>	Grey Mountain Moth		Yes	no						
	<i>Epiblema roborana</i>			Yes	no						
	<i>Epione repandaria</i>	Bordered Beauty		Yes	no						
	<i>Epiphyas postvittana</i>	Light Brown Apple Moth		Yes	no						
	<i>Epirrhoe alternata</i>	Common Carpet		Yes	no						
	<i>Epirrhoe galiata</i>	Galium Carpet		Yes	no						
	<i>Epirrita autumnata</i>	Autumnal Moth		Yes	no						
	<i>Epirrita dilutata</i>	November Moth		Yes	no						
	<i>Epirrita filigrammaria</i>	Small Autumnal Moth		Yes	no						
	<i>Erannis defoliaria</i>	Mottled Umber		Yes	no						
	<i>Eremobia ochroleuca</i>	Dusky Sallow		Yes	no						
	<i>Eublemma parva</i>	Small Marbled		Yes	no						
	<i>Euclidea glyphica</i>	Burnet Companion		Yes	no						
	<i>Eulithis mellinata</i>	Spinach		Yes	no						
	<i>Eulithis populata</i>	Northern Spinach		Yes	no						
	<i>Eulithis prunata</i>	Phoenix		Yes	no						
	<i>Eulithis pyraliata</i>	Barred Straw		Yes	no						
	<i>Eulithis testata</i>	Chevron		Yes	no						
	<i>Eumichtis lichenea</i>			Yes	no						
	<i>Eumichtis lichenea</i> subsp. <i>lichenea</i>	Feathered Ranunculus		Yes	no						
	<i>Eumichtis lichenea</i> subsp. <i>scillonea</i>	Feathered Ranunculus		Yes	no						
	<i>Euphyia biangulata</i>	Cloaked Carpet		Yes	no						
	<i>Euphyia unangulata</i>	Sharp-angled Carpet		Yes	no						
	<i>Eupithecia abbreviata</i>	Brindled Pug		Yes	no						
	<i>Eupithecia absinthiata</i>	Wormwood Pug		Yes	no						
	<i>Eupithecia assimilata</i>	Currant Pug		Yes	no						
	<i>Eupithecia centaureata</i>	Lime-Speck Pug		Yes	no						

	<i>Eupithecia expallidata</i>	Bleached Pug		Yes	no						
	<i>Eupithecia fraxinata</i>	Ash Pug		Yes	no						
	<i>Eupithecia icterata</i>	Tawny Speckled Pug		Yes	no						
	<i>Eupithecia icterata</i> subsp. <i>cognata</i>	Tawny-Speckled Pug		Yes	no						
	<i>Eupithecia indigata</i>	Ochreous Pug		Yes	no						
	<i>Eupithecia lariciata</i>	Larch Pug		Yes	no						
	<i>Eupithecia nanata</i> subsp. <i>angusta</i>	Narrow-Winged Pug		Yes	no						
	<i>Eupithecia pulchellata</i>	Foxglove Pug		Yes	no						
	<i>Eupithecia satyrata</i>	Satyr Pug		Yes	no						
	<i>Eupithecia simplicata</i>	Plain Pug		Yes	no						
	<i>Eupithecia subfuscata</i>	Grey Pug		Yes	no						
	<i>Eupithecia subumbrata</i>	Shaded Pug		Yes	no						
	<i>Eupithecia succenturiata</i>	Bordered Pug		Yes	no						
	<i>Eupithecia tantillaria</i>	Dwarf Pug		Yes	no						
	<i>Eupithecia tenuiata</i>	Slender Pug		Yes	no						
	<i>Eupithecia tripunctaria</i>	White-Spotted Pug		Yes	no						
	<i>Eupithecia valerianata</i>	Valerian Pug		Yes	no						
	<i>Eupithecia venosata</i>	Netted Pug		Yes	no						
	<i>Eupithecia virgaureata</i>	Golden-rod Pug		Yes	no						
	<i>Eupithecia vulgata</i>	Common Pug		Yes	no						
	<i>Euplexia lucipara</i>	Small Angle Shades		Yes	no						
	<i>Eupoecilia ambiguella</i>	Vine Moth		Yes	no						
	<i>Euproctis similis</i>	Yellow-tail		Yes	no						
	<i>Eupsilia transversa</i>	Satellite		Yes	no						
	<i>Euxoa cursoria</i>	Coast Dart		Yes	no						
	<i>Euxoa nigricans</i>	Garden Dart		Yes	no						
	<i>Euxoa obelisca</i> subsp. <i>grisea</i>	Square-spot Dart		Yes	no						
	<i>Euxoa tritici</i>	White-line Dart		Yes	no						
	<i>Euzophera pinguis</i>			Yes	no						
	<i>Evergestis forficalis</i>	Garden Pebble		Yes	no						
	<i>Feltia subgothica</i>	Gothic Dart		Yes	no						

	<i>Furcula furcula</i>	Sallow Kitten		Yes	no						
	<i>Geometra papilionaria</i>	Large Emerald		Yes	no						
	<i>Gnophos obscurata</i>	Annulet		Yes	no						
	<i>Gonepteryx rhamni</i>	Brimstone		Yes	no						
	<i>Gortyna flavago</i>	Frosted Orange		Yes	no						
	<i>Graphiphora augur</i>	Double Dart		Yes	no						
	<i>Gymnoscelis rufifasciata</i>	Double-striped Pug		Yes	no						
	<i>Habrosyne pyritoides</i>	Buff Arches		Yes	no						
	<i>Hada nana</i>	Shears		Yes	no						
	<i>Hadena bicurris</i>	Lychnis		Yes	no						
	<i>Hadena caesia</i> subsp. <i>mananii</i>	Grey		Yes	no						
	<i>Hadena confusa</i>	Marbled Coronet		Yes	no						
	<i>Hadena perplexa</i>	Tawny Shears		Yes	no						
	<i>Hadena perplexa</i> subsp. <i>capsophila</i>	Pod Lover		Yes	no						
	<i>Hadena rivularis</i>	Campion		Yes	no						
	<i>Hecatera bicolorata</i>	Broad-barred White		Yes	no						
	<i>Helicoverpa armigera</i>	Scarce Bordered Straw		Yes	no						
	<i>Heliothis maritima</i>	Shoulder-striped Clover		Yes	no						
	<i>Heliothis nubigera</i>	Eastern Bordered Straw		Yes	no						
	<i>Heliothis peltigera</i>	Bordered Straw		Yes	no						
	<i>Hemithea aestivaria</i>	Common Emerald		Yes	no						
	<i>Hepialus fusconebulosa</i>	Map-winged Swift		Yes	no						
	<i>Hepialus fusconebulosa</i> subsp. <i>fuscconebulosa</i>	Map-Winged Swift		Yes	no						
	<i>Hepialus hecta</i>	Gold Swift		Yes	no						
	<i>Hepialus lupulinus</i>	Common Swift		Yes	no						
	<i>Hepialus sylvina</i>	Orange Swift		Yes	no						
	<i>Herminia grisealis</i>	Small Fan-Foot		Yes	no						
	<i>Herminia tarsipennalis</i>	Fan-Foot		Yes	no						
	<i>Heteropterus</i>	Heteropterus		Yes	no						
	<i>Hipparchia semele</i>	Grayling		Yes	no						

	Hofmannophila pseudospretella	Brown House Moth	Yes	no							
	Hoplodrina alsines	Uncertain	Yes	no							
	Hoplodrina blanda	Rustic	Yes	no							
	Hoplodrina superstes	Powdered Rustic	Yes	no							
	Hydraecia micacea	Rosy Rustic	Yes	no							
	Hydrelia flammeolaria	Small Yellow Wave	Yes	no							
	Hydrelia sylvata	Waved Carpet	Yes	no							
	Hydriomena furcata	July Highflyer	Yes	no							
	Hydriomena impluviata	May Highflyer	Yes	no							
	Hydriomena ruberata	Ruddy Highflyer	Yes	no							
	Hylaea fasciaria	Barred Red	Yes	no							
	Hyles galii	Bedstraw Hawk-Moth	Yes	no							
	Hyles lineata subsp. livornica	Striped Hawk-Moth	Yes	no							
	Hypena proboscidalis	Snout	Yes	no							
	Idaea aversata	Riband Wave	Yes	no							
	Idaea biselata	Small Fan-footed Wave	Yes	no							
	Idaea dimidiata	Single-dotted Wave	Yes	no							
	Idaea seriata	Small Dusty Wave	Yes	no							
	Idaea straminata	Plain Wave	Yes	no							
	Idaea subsericeata	Satin Wave	Yes	no							
	Idaea sylvestraria	Dotted-Border Wave	Yes	no							
	Inachis io	Peacock	Yes	no							
	Lacanobia contigua	Beautiful Brocade	Yes	no							
	Lacanobia oleracea	Bright-Line Brown-Eye	Yes	no							
	Lacanobia thalassina	Pale-shouldered Brocade	Yes	no							
	Lampronia pubicornis		Yes	no							
	Lampropteryx suffumata	Water Carpet	Yes	no							
	Laothoe populi	Poplar Hawk-moth	Yes	no							
	Larentia clavaria	Mallow	Yes	no							
	Lasiocampa quercus	Oak Eggar	Yes	no							
	Lasiommata megera	Wall	Yes	no							

	<i>Leioptilus lienigianus</i>		Yes	no							
	<i>Leucoma salicis</i>	White Satin Moth	Yes	no							
	<i>Leucoptera laburnella</i>	Laburnum Leaf Miner	Yes	no							
	<i>Lithacodia pygarga</i>	Marbled White Spot	Yes	no							
	<i>Lithophane hepatica</i>	Pale Pinion	Yes	no							
	<i>Lithophane leautieri</i>	Blair's Shoulder-Knot	Yes	no							
	<i>Lithophane leautieri</i> subsp. <i>hesperica</i>	Blair's Shoulder-knot	Yes	no							
	<i>Lithophane ornitopus</i> subsp. <i>lactipennis</i>	Grey Shoulder-knot	Yes	no							
	<i>Lithosia quadra</i>	Four-spotted Footman	Yes	no							
	<i>Lithostege griseata</i>	Grey Carpet	Yes	no							
	<i>Lobophora halterata</i>	Seraphim	Yes	no							
	<i>Lomaspilis marginata</i>	Clouded Border	Yes	no							
	<i>Lomographa temerata</i>	Clouded Silver	Yes	no							
	<i>Lozotaenia forsterana</i>		Yes	no							
	<i>Luperina testacea</i>	Flounced Rustic	Yes	no							
	<i>Lycaena phlaeas</i>	Small Copper	Yes	no							
	<i>Lycaena phlaeas</i> subsp. <i>eleus</i>	Small Copper	Yes	no							
	<i>Lycophotia porphyrea</i>	True Lover's Knot	Yes	no							
	<i>Lyonetia clerkella</i>	Apple Leaf Miner	Yes	no							
	<i>Macroglossum stellatarum</i>	Humming-bird Hawk-moth	Yes	no							
	<i>Macrothylacia rubi</i>	Fox Moth	Yes	no							
	<i>Malacosoma neustria</i>	Lackey	Yes	no							
	<i>Mamestra brassicae</i>	Cabbage Moth	Yes	no							
	<i>Maniola jurtina</i>	Meadow Brown	Yes	no							
	<i>Maniola jurtina</i> subsp. <i>splendida</i>	Meadow Brown	Yes	no							
	<i>Margaritia sticticalis</i>		Yes	no							
	<i>Melanchra persicariae</i>	Dot Moth	Yes	no							
	<i>Mesapamea didyma</i>	Lesser Common Rustic	Yes	no							
	<i>Mesapamea secalis</i>	Common Rustic	Yes	no							
	<i>Mesapamea secalis</i> agg.	Common Rustic	Yes	no							

	Mesoleuca albicillata	Beautiful Carpet		Yes	no							
	Mesoligia furuncula	Cloaked Minor		Yes	no							
	Mesoligia literosa	Rosy Minor		Yes	no							
	Mniotype adusta	Dark Brocade		Yes	no							
	Monopis leavigella	Skin Moth		Yes	no							
	Mormo maura	Old Lady		Yes	no							
	Mythimna comma	Shoulder-striped Wainscot		Yes	no							
	Mythimna conigera	Brown-Line Bright Eye		Yes	no							
	Mythimna ferrago	Clay		Yes	no							
	Mythimna impura	Smoky Wainscot		Yes	no							
	Mythimna impura subsp. scotica	Smoky Wainscot		Yes	no							
	Mythimna litoralis	Shore Wainscot		Yes	no							
	Mythimna loreyi	Cosmopolitan		Yes	no							
	Mythimna pallens	Common Wainscot		Yes	no							
	Mythimna unipuncta	American Wainscot		Yes	no							
	Mythimna vitellina	Delicate		Yes	no							
	Naenia typica	Gothic		Yes	no							
	Nebula salicata subsp. latentaria	Striped Twin-spot Carpet		Yes	no							
	Noctua comes	Lesser Yellow Underwing		Yes	no							
	Noctua fimbriata	Broad-bordered Yellow Underwing		Yes	no							
	Noctua interjecta subsp. caliginosa	Least Yellow Underwing		Yes	no							
	Noctua janthe	Lesser Broad Bordered Yellow Underwing		Yes	no							
	Noctua orbona	Lunar Yellow Underwing		Yes	no							
	Noctua pronuba	Large Yellow Underwing		Yes	no							
	Nola confusalis	Least Black Arches		Yes	no							
	Nonagria typhae	Bulrush Wainscot		Yes	no							
	Notodonta dromedarius	Iron Prominent		Yes	no							
	Nudaria mundana	Muslin Footman		Yes	no							
	Nycteola revayana	Oak Nycteoline		Yes	no							
	Nymphalis antiopa	Camberwell Beauty		Yes	no							

	<i>Ochropacha duplaris</i>	Common Lutestring	Yes	no							
	<i>Ochropleura plecta</i>	Flame Shoulder	Yes	no							
	<i>Odontopera bidentata</i>	Scalloped Hazel	Yes	no							
	<i>Olethreutes lacunana</i>		Yes	no							
	<i>Oligia fasciuncula</i>	Middle-barred Minor	Yes	no							
	<i>Oligia latruncula</i>	Tawny Marbled Minor	Yes	no							
	<i>Oligia strigilis</i>	Marbled Minor	Yes	no							
	<i>Omphaloscelis lunosa</i>	Lunar Underwing	Yes	no							
	<i>Operophtera brumata</i>	Winter Moth	Yes	no							
	<i>Operophtera fagata</i>	Northern Winter Moth	Yes	no							
	<i>Opisthograptis luteolata</i>	Brimstone Moth	Yes	no							
	<i>Orgyia antiqua</i>	Vapourer	Yes	no							
	<i>Orthonama obstipata</i>	Gem	Yes	no							
	<i>Orthonama vittata</i>	Oblique Carpet	Yes	no							
	<i>Orthopygia glaucinalis</i>		Yes	no							
	<i>Orthosia cerasi</i>	Common Quaker	Yes	no							
	<i>Orthosia cruda</i>	Small Quaker	Yes	no							
	<i>Orthosia gothica</i>	Hebrew Character	Yes	no							
	<i>Orthosia gracilis</i>	Powdered Quaker	Yes	no							
	<i>Orthosia incerta</i>	Clouded Drab	Yes	no							
	<i>Orthosia munda</i>	Twin-Spotted Quaker	Yes	no							
	<i>Ourapteryx sambucaria</i>	Swallow-tailed Moth	Yes	no							
	<i>Pachycnemia hippocastanaria</i>	Horse Chestnut	Yes	no							
	<i>Palpita unionalis</i>		Yes	no							
	<i>Pammene regiana</i>		Yes	no							
	<i>Pandemis cerasana</i>	Barred Fruit-Tree Tortrix	Yes	no							
	<i>Pandemis corylana</i>	Chequered Fruit-Tree Tortrix	Yes	no							
	<i>Pandemis heparana</i>	Dark Fruit-Tree Tortrix	Yes	no							
	<i>Panolis flammea</i>	Pine Beauty	Yes	no							
	<i>Papestra biren</i>	Glaucous Shears	Yes	no							
	<i>Papilio machaon</i>	Swallowtail	Yes	no							

	<i>Paracolax tristalis</i>	Clay Fan-Foot		Yes	no						
	<i>Paradiarsia glareosa</i>			Yes	no						
	<i>Paradiarsia glareosa</i> subsp. <i>glareosa</i>	Autumnal Rustic		Yes	no						
	<i>Pararge aegeria</i>	Speckled Wood		Yes	no						
	<i>Parasemia plantaginis</i>	Wood Tiger		Yes	no						
	<i>Parornix anglicella</i>			Yes	no						
	<i>Pavonia pavonia</i>	Emperor		Yes	no						
	<i>Pelurga comitata</i>	Dark Spinach		Yes	no						
	<i>Peribatodes rhomboidaria</i>	Willow Beauty		Yes	no						
	<i>Peridroma saucia</i>	Pearly Underwing		Yes	no						
	<i>Perizoma affinitata</i>	Rivulet		Yes	no						
	<i>Perizoma albulata</i>	Grass Rivulet		Yes	no						
	<i>Perizoma albulata</i> subsp. <i>albulata</i>	Grass Rivulet		Yes	no						
	<i>Perizoma alchemillata</i>	Small Rivulet		Yes	no						
	<i>Perizoma bifaciata</i>	Barred Rivulet		Yes	no						
	<i>Perizoma didymata</i>	Twin-spot Carpet		Yes	no						
	<i>Perizoma didymata</i> subsp. <i>hethlandica</i>	Twin-spot Carpet		Yes	no						
	<i>Perizoma flavofasciata</i>	Sandy Carpet		Yes	no						
	<i>Perizoma taeniata</i>	Barred Carpet		Yes	no						
	<i>Petrophora chlorosata</i>	Brown Silver-line		Yes	no						
	<i>Phalera bucephala</i>	Buff-tip		Yes	no						
	<i>Phalonidia affinitana</i>			Yes	no						
	<i>Pheosia gnoma</i>	Lesser Swallow Prominent		Yes	no						
	<i>Pheosia tremula</i>	Swallow Prominent		Yes	no						
	<i>Phlogophora meticulosa</i>	Angle Shades		Yes	no						
	<i>Photedes minima</i>	Small Dotted Buff		Yes	no						
	<i>Photedes pygmina</i>	Small Wainscot		Yes	no						
	<i>Phragmatobia fuliginosa</i>	Ruby Tiger		Yes	no						
	<i>Phyllonorycter geniculella</i>			Yes	no						
	<i>Pieris brassicae</i>	Large White		Yes	no						

	<i>Pieris napi</i>	Green-Veined White		Yes	no						
	<i>Pieris rapae</i>	Small White		Yes	no						
	<i>Plemyria rubiginata</i>	Blue-Bordered Carpet		Yes	no						
	<i>Pleuroptya ruralis</i>	Mother of Pearl		Yes	no						
	<i>Plusia festucae</i>	Gold Spot		Yes	no						
	<i>Plusia putnami</i> subsp. <i>gracilis</i>	Lempke's Gold Spot		Yes	no						
	<i>Polia nebulosa</i>	Grey Arches		Yes	no						
	<i>Polychrysis moneta</i>	Golden Plusia		Yes	no						
	<i>Polygona c-album</i>	Comma		Yes	no						
	<i>Polymixis xanthomista</i> subsp. <i>statices</i>	Black-banded		Yes	no						
	<i>Polyommatus icarus</i>	Common Blue		Yes	no						
	<i>Polyommatus icarus</i> (Tea form)			Yes	no						
	<i>Polyommatus icarus</i> subsp. <i>marsicolore</i>	Common Blue		Yes	no						
	<i>Prolita sexpunctella</i>			Yes	no						
	<i>Pseudopsis fagana</i> subsp. <i>britannica</i>	Green Silver-Lines		Yes	no						
	<i>Pseudoterpna pruinata</i> subsp. <i>atropunctaria</i>	Grass Emerald		Yes	no						
	<i>Pterostoma palpina</i>	Pale Prominent		Yes	no						
	<i>Ptilodon capucina</i>	Coxcomb Prominent		Yes	no						
	Pyralidae	Pyralidae		Yes	no						
	<i>Pyronia tithonus</i> subsp. <i>britannica</i>	Gatekeeper		Yes	no						
	<i>Pyrrhia umbra</i>	Bordered Sallow		Yes	no						
	<i>Rheumaptera undulata</i>	Scallop Shell		Yes	no						
	<i>Rhizodra lutosa</i>	Large Wainscot		Yes	no						
	<i>Rhodomtra sacraria</i>	Vestal		Yes	no						
	<i>Rhyacia simulans</i>	Dotted Rustic		Yes	no						
	<i>Rivula sericealis</i>	Straw Dot		Yes	no						
	<i>Rusina ferruginea</i>	Brown Rustic		Yes	no						
	<i>Saturnia pavonia</i>	Emperor Moth		Yes	no						
	<i>Schrankia costae</i> <i>strigalis</i>	Pinion-streaked Snout		Yes	no						
	<i>Scoliopteryx libatrix</i>	Herald		Yes	no						

	<i>Scopula floslactata</i>	Cream Wave		Yes	no						
	<i>Scopula immutata</i>	Lesser Cream Wave		Yes	no						
	<i>Scopula marginepunctata</i>	Mullein Wave		Yes	no						
	<i>Scotopteryx chenopodiata</i>	Shaded Broad-bar		Yes	no						
	<i>Scotopteryx luridata</i> subsp. <i>plumbaria</i>	July Belle		Yes	no						
	<i>Scotopteryx mucronata</i>	Lead Belle		Yes	no						
	<i>Scotopteryx mucronata</i> subsp. <i>umbrifera</i>	Lead Belle		Yes	no						
	<i>Scythropia crataegella</i>	Hawthorn Moth		Yes	no						
	<i>Selenia dentaria</i>	Early Thorn		Yes	no						
	<i>Selenia lunularia</i>	Lunar Thorn		Yes	no						
	<i>Selenia tetralunaria</i>	Purple Thorn		Yes	no						
	<i>Semiothisa clathrata</i>	Latticed Heath		Yes	no						
	<i>Semiothisa liturata</i>	Tawny-Barred Angle		Yes	no						
	<i>Serraca punctinalis</i>	Pale Oak Beauty		Yes	no						
	<i>Setina irrorella</i>	Dew Footman		Yes	no						
	<i>Smerinthus ocellata</i>	Eyed Hawk-moth		Yes	no						
	<i>Spilosoma lubricipeda</i>	White Ermine		Yes	no						
	<i>Spilosoma luteum</i>	Buff Ermine		Yes	no						
	<i>Spilosoma urticae</i>	Water Ermine		Yes	no						
	<i>Spodoptera exigua</i>	Small Mottled Willow		Yes	no						
	<i>Standfussiana lucernea</i>	Northern Rustic		Yes	no						
	<i>Stigmella aurella</i>			Yes	no						
	<i>Stilbia anomala</i>	Anomalous		Yes	no						
	<i>Synansphecica muscaeformis</i>	Thrift Clearwing		Yes	no						
	<i>Synanthedon tipuliformis</i>	Currant Clearwing		Yes	no						
	<i>Synaphe punctalis</i>			Yes	no						
	<i>Tethea ocularis</i> subsp. <i>octogesimea</i>	Figure of Eighty		Yes	no						
	<i>Thalpophila matura</i>	Straw Underwing		Yes	no						
	<i>Thera britannica</i>	Spruce Carpet		Yes	no						
	<i>Thera firmata</i>	Pine Carpet		Yes	no						

	<i>Thera obeliscata</i>	Grey Pine Carpet		Yes	no								
	<i>Theria primaria</i>	Early Moth		Yes	no								
	<i>Tholera cespitis</i>	Hedge Rustic		Yes	no								
	<i>Tholera decimalis</i>	Feathered Gothic		Yes	no								
	<i>Thumatha senex</i>	Round-Winged Muslin		Yes	no								
	<i>Thyatira batis</i>	Peach Blossom		Yes	no								
	<i>Thymelicus lineola</i>	Essex Skipper		Yes	no								
	<i>Thymelicus sylvestris</i>	Small Skipper		Yes	no								
	<i>Trichopteryx carpinata</i>	Early Tooth-striped		Yes	no								
	<i>Triphosa dubitata</i>	Tissue		Yes	no								
	<i>Tyria jacobaeae</i>	Cinnabar		Yes	no								
	<i>Valeria oleagina</i>	Green-Brindled Dot		Yes	no								
	<i>Vanessa atalanta</i>	Red Admiral		Yes	no								
	<i>Vanessa cardui</i>	Painted Lady		Yes	no								
	<i>Venusia cambrica</i>	Welsh Wave		Yes	no								
	<i>Xanthia gilvago</i>	Dusky-Lemon Sallow		Yes	no								
	<i>Xanthia icteritia</i>	Sallow		Yes	no								
	<i>Xanthia togata</i>	Pink-barred Sallow		Yes	no								
	<i>Xanthorhoe designata</i>	Flame Carpet		Yes	no								
	<i>Xanthorhoe ferrugata</i>	Dark-barred Twin-spot Carpet		Yes	no								
	<i>Xanthorhoe fluctuata</i>	Garden Carpet		Yes	no								
	<i>Xanthorhoe fluctuata</i> subsp. <i>thules</i>	Garden Carpet		Yes	no								
	<i>Xanthorhoe montanata</i>	Silver-ground Carpet		Yes	no								
	<i>Xanthorhoe munitata</i> subsp. <i>munitata</i>	Red Carpet		Yes	no								
	<i>Xanthorhoe spadicearia</i>	Red Twin-Spot Carpet		Yes	no								
	<i>Xestia agathina</i>	Heath Rustic		Yes	no								
	<i>Xestia baja</i>	Dotted Clay		Yes	no								
	<i>Xestia castanea</i>	Neglected Rustic		Yes	no								
	<i>Xestia c-nigrum</i>	Setaceous Hebrew Character		Yes	no								
	<i>Xestia ditrapezium</i>	Triple-Spotted Clay		Yes	no								

	<i>Xestia sexstrigata</i>	Six-striped Rustic	Yes	no							
	<i>Xestia triangulum</i>	Double-square Spot	Yes	no							
	<i>Xestia xanthographa</i>	Square-Spot Rustic	Yes	no							
	<i>Xylena exsoleta</i>	Sword-Grass	Yes	no							
	<i>Xylena vetusta</i>	Red Sword-Grass	Yes	no							
	<i>Xylocampa areola</i>	Early Grey	Yes	no							
	<i>Ypsolopha vittella</i>		Yes	no							
	<i>Zygaena</i>	Burnet Moth	Yes	no							
	<i>Zygaena filipendulae</i>	Six-spot Burnet	Yes	no							
	<i>Zygaena filipendulae</i> subsp. <i>anglicola</i>	Six-Spot Burnet	Yes	no							
	<i>Zygaena purpuralis</i> subsp. <i>caledonensis</i>	Transparent Burnet	Yes	no							
	<i>Zygaena trifolii</i>	Five-spot Burnet	Yes	no							
			Yes	no							
Coleoptera	<i>Abax parallelepipedus</i>		Yes	no							
	<i>Aclypea opaca</i>	Beet Carrion Beetle	Yes	no							
	<i>Acupalpus dorsalis</i>		Yes	no							
	<i>Adalia decempunctata</i>	Ten-Spot Ladybird	Yes	no							
	<i>Aegialia arenaria</i>		Yes	no							
	<i>Aepus marinus</i>		Yes	no							
	<i>Agabus guttatus</i>		Yes	no							
	<i>Agathidium rotundatum</i>		Yes	no							
	<i>Agonum albipes</i>		Yes	no							
	<i>Agonum dorsale</i>		Yes	no							
	<i>Agonum fuliginosum</i>		Yes	no							
	<i>Agonum muelleri</i>		Yes	no							
	<i>Agonum obscurum</i>		Yes	no							
	<i>Agonum piceum</i>		Yes	no							
	<i>Agonum thoreyi</i>		Yes	no							
	<i>Agriotes lineatus</i>		Yes	no							
	<i>Agriotes obscurus</i>		Yes	no							
	<i>Agrypnus murinus</i>		Yes	no							

	Aleochara curtula		Yes	no							
	Aleochara intricata		Yes	no							
	Aloconota cambrica		Yes	no							
	Aloconota currax		Yes	no							
	Amara aenea	Common Sun Beetle	Yes	no							
	Amara aulica		Yes	no							
	Amara bifrons		Yes	no							
	Amara communis		Yes	no							
	Amara eurynota		Yes	no							
	Amara familiaris		Yes	no							
	Amara lunicollis		Yes	no							
	Amara ovata		Yes	no							
	Amara plebeja		Yes	no							
	Amara tibialis		Yes	no							
	Amischa cavifrons		Yes	no							
	Anacaena globulus		Yes	no							
	Anatis ocellata	Eyed Ladybird	Yes	no							
	Anomala dubia	Dune Chafer	Yes	no							
	Anotylus rugosus		Yes	no							
	Anthonomus pedicularius		Yes	no							
	Anthonomus rubi	Strawberry Blossom Weevil	Yes	no							
	Aphodius prodromus		Yes	no							
	Aphodius rufipes		Yes	no							
	Aphodius sphaelatus		Yes	no							
	Aphthona nonstriata	Iris Flea Beetle	Yes	no							
	Apion		Yes	no							
	Apion frumentarium		Yes	no							
	Athous haemorrhoidalis		Yes	no							
	Athous vittatus		Yes	no							
	Atomaria		Yes	no							
	Atrecus affinis		Yes	no							

	<i>Badister bipustulatus</i>		Yes	no							
	<i>Baeckmanniolus dimidiatus</i>		Yes	no							
	<i>Barynotus obscurus</i>	Ground Weevil	Yes	no							
	<i>Barypeithes araneiformis</i>	Spider Weevil	Yes	no							
	<i>Barypeithes pellucidus</i>	Hairy Spider Weevil	Yes	no							
	<i>Barypeithes sulcifrons</i>		Yes	no							
	<i>Bembidion andreae</i>		Yes	no							
	<i>Bembidion assimile</i>		Yes	no							
	<i>Bembidion atrocoeruleum</i>		Yes	no							
	<i>Bembidion decorum</i>		Yes	no							
	<i>Bembidion harpaloides</i>		Yes	no							
	<i>Bembidion lampros</i>		Yes	no							
	<i>Bembidion mannerheimi</i>		Yes	no							
	<i>Bembidion maritimum</i>		Yes	no							
	<i>Bembidion pallidipenne</i>		Yes	no							
	<i>Bembidion saxatile</i>		Yes	no							
	<i>Bembidion stephensi</i>		Yes	no							
	<i>Bembidion tetracolum</i>		Yes	no							
	<i>Bembidion tibiale</i>		Yes	no							
	<i>Biblopectus ambiguus</i>		Yes	no							
	<i>Bledius atricapillus</i>		Yes	no							
	<i>Bledius subterraneus</i>		Yes	no							
	<i>Bolitobius analis</i>		Yes	no							
	<i>Bradycellus harpalinus</i>		Yes	no							
	<i>Bradycellus sharpi</i>		Yes	no							
	<i>Bradycellus verbasci</i>		Yes	no							
	<i>Brosicus cephalotes</i>		Yes	no							
	<i>Byrrhus pilula</i>	Pill Beetle	Yes	no							
	<i>Bythinus macropalpus</i>		Yes	no							
	<i>Cafius xantholoma</i>		Yes	no							
	<i>Calathus cinctus</i>		Yes	no							

	Calathus fuscipes		Yes	no							
	Calathus melanocephalus		Yes	no							
	Calathus mollis		Yes	no							
	Calathus piceus		Yes	no							
	Cantharidae		Yes	no							
	Carabidae		Yes	no							
	Carabus arvensis		Yes	no							
	Carabus granulatus		Yes	no							
	Carabus nemoralis		Yes	no							
	Carabus problematicus		Yes	no							
	Cassida rubiginosa	Thistle Tortoise Beetle	Yes	no							
	Catops chrysomeloides		Yes	no							
	Catops fuliginosus		Yes	no							
	Catops morio		Yes	no							
	Ceratapion carduorum		Yes	no							
	Cercyon depressus		Yes	no							
	Cercyon melanocephalus		Yes	no							
	Cetonia aurata	Rose Beetle	Yes	no							
	Ceutorhynchus contractus	Cabbage Leaf Weevil	Yes	no							
	Ceutorhynchus pyrrhorhynchus		Yes	no							
	Ceutorhynchus quadridens	Cabbage Stem Weevil	Yes	no							
	Chaetocnema concinna	Beet Flea Beetle	Yes	no							
	Chaetocnema hortensis		Yes	no							
	Chalcoides aurea		Yes	no							
	Chilocorus nigrinus		Yes	no							
	Choleva agilis		Yes	no							
	Chrysolina banksi		Yes	no							
	Chrysolina fastuosa	Dead-Nettle Leaf Beetle	Yes	no							
	Chrysolina polita	Knotgrass Leaf Beetle	Yes	no							
	Chrysolina staphylaea		Yes	no							
	Chrysomelidae	Indet Leaf Beetle	Yes	no							

	<i>Cicindela campestris</i>	Green Tiger Beetle		Yes	no								
	<i>Cidnorhinus quadrimaculatus</i>	Small Nettle Weevil		Yes	no								
	<i>Cleonus piger</i>	Large Thistle Weevil		Yes	no								
	<i>Clytus arietis</i>	Wasp Beetle		Yes	no								
	<i>Coccidula rufa</i>			Yes	no								
	<i>Coccinella hieroglyphica</i>			Yes	no								
	<i>Coccinella septempunctata</i>	Seven-Spot Ladybird		Yes	no								
	<i>Coccinella undecimpunctata</i>	11-Spot Ladybird		Yes	no								
	Coccinellidae	Indet. Ladybird		Yes	no								
	<i>Coelambus impressopunctatus</i>			Yes	no								
	<i>Corticaria crenulata</i>			Yes	no								
	<i>Corticaria impressa</i>			Yes	no								
	<i>Corticaria punctulata</i>			Yes	no								
	<i>Creophilus maxillosus</i>	Carrion Beetle		Yes	no								
	<i>Crepidodera ferruginea</i>			Yes	no								
	<i>Crypticus quisquilius</i>			Yes	no								
	<i>Cryptophagus</i>			Yes	no								
	<i>Ctenicera cuprea</i>			Yes	no								
	<i>Cylindrinotus laevioctostriatus</i>			Yes	no								
	<i>Cyphon padi</i>			Yes	no								
	<i>Cyphon variabilis</i>			Yes	no								
	<i>Cytilus sericeus</i>			Yes	no								
	<i>Dalopius marginatus</i>			Yes	no								
	<i>Demetrias atricapillus</i>			Yes	no								
	<i>Dianous coeruleus</i>			Yes	no								
	<i>Dicheirotichus gustavi</i>			Yes	no								
	<i>Diplapion confluens</i>			Yes	no								
	<i>Dromius linearis</i>			Yes	no								
	<i>Dromius melanocephalus</i>			Yes	no								
	<i>Dromius notatus</i>			Yes	no								
	<i>Drusilla canaliculata</i>			Yes	no								

	Dryops luridus		Yes	no							
	Dyschirius globosus		Yes	no							
	Dyschirius thoracicus		Yes	no							
	Dytiscus marginalis	Great Diving Beetle	Yes	no							
	Elaphrus cupreus		Yes	no							
	Elateridae		Yes	no							
	Encephalus complicans		Yes	no							
	Eपुरaea unicolor		Yes	no							
	Eutrichapion viciae		Yes	no							
	Gabrius keysianus		Yes	no							
	Gabrius trossulus		Yes	no							
	Geostiba circellaris		Yes	no							
	Geotrupes stercorarius	Dor Beetle	Yes	no							
	Grypus equiseti	Horsetail Weevil	Yes	no							
	Gyrinus natator		Yes	no							
	Gyrophypnus angustatus		Yes	no							
	Harpalus affinis		Yes	no							
	Harpalus anxius		Yes	no							
	Harpalus attenuatus		Yes	no							
	Harpalus latus		Yes	no							
	Harpalus puncticeps		Yes	no							
	Harpalus rufipes	Strawberry Seed Beetle	Yes	no							
	Harpalus tardus		Yes	no							
	Hemicrepidius hirtus		Yes	no							
	Heterocerus fuscus		Yes	no							
	Hister impressus		Yes	no							
	Hydrobius fuscipes		Yes	no							
	Hydroporus obsoletus		Yes	no							
	Hydrosmeeta eximia		Yes	no							
	Hydrosmeeta thinobioides		Yes	no							
	Hylastes cunicularius		Yes	no							

	<i>Hylastinus obscurus</i>	Gorse Bark Beetle		Yes	no							
	<i>Hypera arator</i>			Yes	no							
	<i>Hypera dauci</i>			Yes	no							
	<i>Hypera nigrirostris</i>			Yes	no							
	<i>Hypera plantaginis</i>			Yes	no							
	<i>Hypera suspiciosa</i>			Yes	no							
	<i>Hypocaccus rugiceps</i>			Yes	no							
	<i>Ischnopterapion loti</i>			Yes	no							
	<i>Laccobius minutus</i>			Yes	no							
	<i>Laemostenus terricola</i>			Yes	no							
	<i>Lagria hirta</i>			Yes	no							
	<i>Lathrobium brunnipes</i>			Yes	no							
	<i>Lathrobium multipunctum</i>			Yes	no							
	<i>Leistus ferrugineus</i>			Yes	no							
	<i>Leistus fulvibarbis</i>			Yes	no							
	<i>Leistus rufescens</i>			Yes	no							
	<i>Lesteva heeri</i>			Yes	no							
	<i>Liophloeus tessulatus</i>			Yes	no							
	<i>Lochmaea caprea</i>	Willow Leaf Beetle		Yes	no							
	<i>Lochmaea suturalis</i>	Heather Beetle		Yes	no							
	<i>Longitarsus melanocephalus</i>			Yes	no							
	<i>Loricera pilicornis</i>			Yes	no							
	<i>Mecinus pyraister</i>			Yes	no							
	<i>Megarhtrus sinuatocollis</i>			Yes	no							
	<i>Melolontha melolontha</i>	Common Cockchafer		Yes	no							
	<i>Mesites tardii</i>			Yes	no							
	<i>Metabletus foveatus</i>			Yes	no							
	<i>Micrambe vini</i>			Yes	no							
	<i>Mycetoporus rufescens</i>			Yes	no							
	<i>Nebria brevicollis</i>			Yes	no							
	<i>Nebria salina</i>			Yes	no							

	<i>Neobisnius procerulus</i>		Yes	no							
	<i>Nicrophorus humator</i>	Black Sexton Beetle	Yes	no							
	<i>Nicrophorus investigator</i>		Yes	no							
	<i>Nicrophorus vespillo</i>	Common Burying Beetle	Yes	no							
	<i>Notiophilus aquaticus</i>		Yes	no							
	<i>Notiophilus biguttatus</i>		Yes	no							
	<i>Notiophilus germinyi</i>		Yes	no							
	<i>Notiophilus palustris</i>		Yes	no							
	<i>Notiophilus substriatus</i>		Yes	no							
	<i>Ocypus aeneocephalus</i>		Yes	no							
	<i>Ocypus ater</i>		Yes	no							
	<i>Ocypus brunnipes</i>		Yes	no							
	<i>Ocypus compressus</i>		Yes	no							
	<i>Ocypus olens</i>	Devil's Coach-Horse	Yes	no							
	<i>Olibrus liquidus</i>		Yes	no							
	<i>Olisthopus rotundatus</i>		Yes	no							
	<i>Olophrum piceum</i>		Yes	no							
	<i>Omalius laeviusculus</i>		Yes	no							
	<i>Omalius rivulare</i>		Yes	no							
	<i>Orobitis cyaneus</i>	Violet Weevil	Yes	no							
	<i>Othius laeviusculus</i>		Yes	no							
	<i>Otiorhynchus atroapterus</i>	Black Marram Weevil	Yes	no							
	<i>Otiorhynchus desertus</i>		Yes	no							
	<i>Otiorhynchus ligneus</i>		Yes	no							
	<i>Otiorhynchus ovatus</i>	Strawberry Root Weevil	Yes	no							
	<i>Otiorhynchus rugifrons</i>	Strawberry Root Weevil	Yes	no							
	<i>Otiorhynchus rugosostriatus</i>	Strawberry Root Weevil	Yes	no							
	<i>Otiorhynchus singularis</i>	Raspberry Weevil	Yes	no							
	<i>Otiorhynchus sulcatus</i>	Vine Weevil	Yes	no							
	<i>Oulema melanopa</i>	Cereal Leaf Beetle	Yes	no							
	<i>Paralister purpurascens</i>		Yes	no							

	Perapion curtirostre		Yes	no							
	Perapion hydrolapathi		Yes	no							
	Perapion violaceum		Yes	no							
	Phaleria cadaverina		Yes	no							
	Philonthus cognatus		Yes	no							
	Philonthus decorus		Yes	no							
	Philonthus fimetarius		Yes	no							
	Philonthus immundus		Yes	no							
	Philonthus laminatus		Yes	no							
	Philonthus marginatus		Yes	no							
	Philonthus micantoides		Yes	no							
	Philonthus varians		Yes	no							
	Philonthus varius		Yes	no							
	Philopeton plagiatum	Marram Weevil	Yes	no							
	Phylan gibbus		Yes	no							
	Phyllotreta undulata	Small Turnip Flea Beetle	Yes	no							
	Phytobius quadrituberculatus		Yes	no							
	Pityophagus ferrugineus		Yes	no							
	Plateumaris discolor		Yes	no							
	Polydrusus pulchellus	Sea-Wormwood Weevil	Yes	no							
	Propylea quattuordecimpunctata	14-Spot Ladybird	Yes	no							
	Prosternon tessellatum	Chequered Click Beetle	Yes	no							
	Protapion fulvipes	White Clover Seed Weevil	Yes	no							
	Protapion nigrifars		Yes	no							
	Psylliodes cuprea		Yes	no							
	Pterostichus diligens		Yes	no							
	Pterostichus madidus	Black Clock	Yes	no							
	Pterostichus melanarius		Yes	no							
	Pterostichus minor		Yes	no							
	Pterostichus niger		Yes	no							
	Pterostichus nigrita		Yes	no							

	Pterostichus nigrita agg.		Yes	no							
	Pterostichus rhaeticus		Yes	no							
	Pterostichus strenuus		Yes	no							
	Pterostichus versicolor		Yes	no							
	Ptomaphagus subvillosus		Yes	no							
	Quedius boops		Yes	no							
	Quedius curtipennis		Yes	no							
	Quedius fuliginosus		Yes	no							
	Quedius maurorufus		Yes	no							
	Quedius mesomelinus		Yes	no							
	Quedius semiobscurus		Yes	no							
	Quedius tristis		Yes	no							
	Rhagonycha		Yes	no							
	Rhagonycha fulva	Common Red Soldier Beetle	Yes	no							
	Rhinoncus castor		Yes	no							
	Rhinoncus pericarpus		Yes	no							
	Rhizophagus dispar		Yes	no							
	Rhynchaenus quercus		Yes	no							
	Rhyzobius litura		Yes	no							
	Rybaxis		Yes	no							
	Saprinus aeneus		Yes	no							
	Saprinus semistriatus		Yes	no							
	Sciodrepoides watsoni		Yes	no							
	Sepedophilus marshami		Yes	no							
	Sepedophilus nigripennis		Yes	no							
	Serica brunnea	Brown Chafer	Yes	no							
	Sibinia primitus		Yes	no							
	Silpha atrata	Black Snail Beetle	Yes	no							
	Simplocaria semistriata		Yes	no							
	Sitona griseus		Yes	no							
	Sitona hispidulus	Clover Weevil	Yes	no							

	Sitona lepidus		Yes	no							
	Sitona lineellus		Yes	no							
	Sitona regensteinensis		Yes	no							
	Sitona striatellus		Yes	no							
	Sphaeridium lunatum		Yes	no							
	Sphaeridium scarabaeoides		Yes	no							
	Sphaeroderma testaceum		Yes	no							
	Staphylinidae	Indet. Rove Beetle	Yes	no							
	Staphylinus erythropterus		Yes	no							
	Stenichnus collaris		Yes	no							
	Stenus boops		Yes	no							
	Stenus brunnipes		Yes	no							
	Stenus clavicornis		Yes	no							
	Stenus flavipes		Yes	no							
	Stenus guttula		Yes	no							
	Stenus guynemeri		Yes	no							
	Stenus impressus		Yes	no							
	Stenus junco		Yes	no							
	Stenus nitidiusculus		Yes	no							
	Stenus ossium		Yes	no							
	Stenus providus		Yes	no							
	Stephostethus lardarius		Yes	no							
	Strophosoma faber		Yes	no							
	Strophosoma melanogrammum	Nut Leaf Weevil	Yes	no							
	Strophosoma sus	Heather Weevil	Yes	no							
	Tachinus signatus		Yes	no							
	Tachyporus chrysomelinus agg.		Yes	no							
	Tachyporus dispar		Yes	no							
	Tachyporus hypnorum		Yes	no							
	Tachyporus nitidulus		Yes	no							
	Tachyporus obtusus		Yes	no							

	Tachyporus pusillus		Yes	no							
	Tetratoma fungorum		Yes	no							
	Thanatophilus rugosus		Yes	no							
	Tomicus piniperda	Large Pine Shoot Beetle	Yes	no							
	Trachyploeus bifoveolatus		Yes	no							
	Trechus fulvus		Yes	no							
	Trechus obtusus		Yes	no							
	Trichocellus placidus		Yes	no							
	Tropiphorus terricola		Yes	no							
	Typhaeus typhoeus	Minotaur Beetle	Yes	no							
	Xantholinus glabratus		Yes	no							
	Xantholinus linearis		Yes	no							
	Xantholinus longiventris		Yes	no							
	Zoroachros minimus		Yes	no							
			Yes	no							
Hymenoptera	Ametastegia	Ametastegia	Yes	no							
	Ammophila campestris	Heath Sand Wasp	Yes	no							
	Ammophila pubescens	Heath Sand Wasp	Yes	no							
	Ancistrocerus oviventris		Yes	no							
	Ancistrocerus parietinus		Yes	no							
	Andrena angustior		Yes	no							
	Andrena barbilabris		Yes	no							
	Andrena bicolor	Gwynne's Mining Bee	Yes	no							
	Andrena cineraria	Grey Mining Bee	Yes	no							
	Andrena clarkella		Yes	no							
	Andrena coitana		Yes	no							
	Andrena denticulata		Yes	no							
	Andrena fucata		Yes	no							
	Andrena fulva	Tawny Mining Bee	Yes	no							
	Andrena fuscipes		Yes	no							
	Andrena haemorrhhoa	Early Mining Bee	Yes	no							

	Andrena humilis		Yes	no							
	Andrena labialis		Yes	no							
	Andrena nana		Yes	no							
	Andrena nigroaenea		Yes	no							
	Andrena scotica		Yes	no							
	Andrena tarsata		Yes	no							
	Andrena wilkella		Yes	no							
	Andricus kollari	Marble Gall	Yes	no							
	Anoplius nigerrimus		Yes	no							
	Apidae	Indet. Bee	Yes	no							
	Apis mellifera	Honey Bee	Yes	no							
	Arachnospila anceps		Yes	no							
	Argogorytes mystaceus	Field Digger Wasp	Yes	no							
	Athalia	Athalia	Yes	no							
	Basalys bifoveata		Yes	no							
	Bombus	Bumble Bee	Yes	no							
	Bombus distinguendus	Great yellow bumblebee	Yes	no							
	Bombus hortorum	Small Garden Bumble Bee	Yes	no							
	Bombus humilis	Carder bumblebee	Yes	no							
	Bombus jonellus	Heath Bumble Bee	Yes	no							
	Bombus lapidarius	Large Red Tailed Bumble Bee	Yes	no							
	Bombus lucorum	White-Tailed Bumble Bee	Yes	no							
	Bombus magnus		Yes	no							
	Bombus monticola	Mountain Bumble Bee	Yes	no							
	Bombus muscorum		Yes	no							
	Bombus pascuorum	Common Carder Bee	Yes	no							
	Bombus terrestris	Buff-Tailed Bumble Bee	Yes	no							
	Cephalidae	Cephalidae	Yes	no							
	Chrysis ignita	Rubytail wasp	Yes	no							
	Colletes similis		Yes	no							
	Colletes succinctus		Yes	no							

	Crabro cribrarius	Slender Bodied Digger Wasp		Yes	no							
	Crossocerus elongatulus	Slender Digger Wasp		Yes	no							
	Crossocerus leucostoma	White Mouthed Digger Wasp		Yes	no							
	Crossocerus megacephalus			Yes	no							
	Crossocerus palmipes			Yes	no							
	Crossocerus pusillus			Yes	no							
	Crossocerus tarsatus			Yes	no							
	Dolerus germanicus			Yes	no							
	Dolichovespula sylvestris	Tree Wasp		Yes	no							
	Ectemnius cavifrons			Yes	no							
	Ectemnius lapidarius			Yes	no							
	Formica fusca	Negro Ant		Yes	no							
	Formica lemani			Yes	no							
	Halictus rubicundus			Yes	no							
	Hylaeus brevicornis	Short Horned Yellow-Face Bee		Yes	no							
	Hylaeus hyalinatus			Yes	no							
	Ichneumonidae	Ichneumonidae		Yes	no							
	Lasioglossum albipes			Yes	no							
	Lasioglossum calceatum	Slender Mining Bee		Yes	no							
	Lasioglossum cupromicans			Yes	no							
	Lasioglossum leucopum			Yes	no							
	Lasioglossum morio	Brassy Mining Bee		Yes	no							
	Lasioglossum nitidiusculum	Neat Mining Bee		Yes	no							
	Lasioglossum punctatissimum			Yes	no							
	Lasioglossum smeathmanellum			Yes	no							
	Lasioglossum villosulum	Shaggy Mining Bee		Yes	no							
	Lasius flavus	Yellow Meadow Ant		Yes	no							
	Lasius niger	Small Black Ant		Yes	no							
	Megachile centuncularis	Patchwork Leaf-Cutter Bee		Yes	no							
	Megachile maritima	Coastal Leaf-Cutter Bee		Yes	no							

	Megachile versicolor		Yes	no							
	Megachile willughbiella	Willughby's Leaf-Cutter Bee	Yes	no							
	Melitta haemorrhoidalis		Yes	no							
	Melitta leporina		Yes	no							
	Mellinus arvensis	Field Digger Wasp	Yes	no							
	Mellinus crabroneus	Sand Digger Wasp	Yes	no							
	Myrmica rubra	Red Ant	Yes	no							
	Myrmica ruginodis		Yes	no							
	Myrmica sabuleti		Yes	no							
	Myrmica scabrinodis		Yes	no							
	Neuroterus quercusbaccarum	Common Spangle Gall	Yes	no							
	Nomada fabriciana	Fabricius' Nomad Bee	Yes	no							
	Nomada flavoguttata		Yes	no							
	Nomada goodeniana	Gooden's Nomad Bee	Yes	no							
	Nomada leucophthalma		Yes	no							
	Nomada marshamella	Marsham's Nomad Bee	Yes	no							
	Nomada obtusifrons		Yes	no							
	Nomada rufipes	Golden-Rod Nomad Bee	Yes	no							
	Oxybelus mandibularis	Pale Jawed Spiny Digger Wasp	Yes	no							
	Oxybelus uniglumis	Common Spiny Digger Wasp	Yes	no							
	Pemphredon lugubris	Mournful Wasp	Yes	no							
	Phaenoglyphis salicis		Yes	no							
	Polyblastus annulicornis		Yes	no							
	Priocnemis hyalinata		Yes	no							
	Proctotrupidae		Yes	no							
	Psithyrus bohemicus	Gipsy Cuckoo Bee	Yes	no							
	Psithyrus campestris	Field Cuckoo Bee	Yes	no							
	Pteromalidae		Yes	no							
	Rhyssa persuasoria		Yes	no							
	Sirex juvencus		Yes	no							

	<i>Sphecodes ephippius</i>		Yes	no							
	<i>Sphecodes fasciatus</i>		Yes	no							
	<i>Sphecodes miniatus</i>		Yes	no							
	<i>Sphecodes monilicornis</i>		Yes	no							
	<i>Tenthredo</i>		Yes	no							
	<i>Tenthredo arcuata</i>		Yes	no							
	<i>Tetramorium caespitum</i>	Turf Ant	Yes	no							
	<i>Urocerus gigas</i>	Greater Horntail Wasp	Yes	no							
	<i>Vespula germanica</i>	German Wasp	Yes	no							
	<i>Vespula rufa</i>	Red Wasp	Yes	no							
	<i>Vespula vulgaris</i>	Common Wasp	Yes	no							
	<i>Xyalaspis petiolata</i>		Yes	no							
Diptera	<i>Anevrina</i>		Yes	no							
	<i>Anthomyia liturata</i>		Yes	no							
	<i>Anthomyza sordidella</i>		Yes	no							
	<i>Argyra argentella</i>		Yes	no							
	Asilidae		Yes	no							
	<i>Azelia cilipes</i>		Yes	no							
	<i>Beris vallata</i>		Yes	no							
	<i>Bibio</i>		Yes	no							
	<i>Bibio marci</i>	St Marks Fly	Yes	no							
	<i>Bibio nigriventris</i>		Yes	no							
	<i>Bicellaria vana</i>		Yes	no							
	<i>Borborillus nitidifrons</i>		Yes	no							
	<i>Bradysia</i>		Yes	no							
	<i>Brillia modesta</i>		Yes	no							
	<i>Calliphora vicina</i>		Yes	no							
	<i>Campsicnemus curvipes</i>		Yes	no							
	<i>Campsicnemus loripes</i>		Yes	no							
	<i>Campsicnemus pusillus</i>		Yes	no							

	Campylomyza fusca		Yes	no						
	Cerodontha denticornis		Yes	no						
	Chironomidae		Yes	no						
	Chironomus		Yes	no						
	Chirosia parvicornis		Yes	no						
	Chloromyia formosa		Yes	no						
	Chloropisca glabra		Yes	no						
	Chlorops		Yes	no						
	Chrysotus gramineus		Yes	no						
	Chymomyza costata		Yes	no						
	Coelopa frigida		Yes	no						
	Coelosia tenella		Yes	no						
	Coenosia intermedia		Yes	no						
	Coenosia tigrina		Yes	no						
	Cordilura		Yes	no						
	Culex		Yes	no						
	Dilophus febrilis	Fever Fly	Yes	no						
	Dolichopodidae		Yes	no						
	Dolichopus griseipennis		Yes	no						
	Dolichopus trivialis		Yes	no						
	Dolichopus unguatus		Yes	no						
	Drosophila		Yes	no						
	Drosophila subobscura		Yes	no						
	Drymeia hamata		Yes	no						
	Dryomyza anilis		Yes	no						
	Egle muscaria		Yes	no						
	Empididae		Yes	no						
	Empis livida		Yes	no						
	Empis nigratarsis		Yes	no						
	Empis nuntia		Yes	no						
	Empis tessellata		Yes	no						

	Episyrphus balteatus			Yes	no							
	Eristalinus aeneus			Yes	no							
	Eristalis arbustorum			Yes	no							
	Eristalis horticola			Yes	no							
	Eristalis nemorum			Yes	no							
	Eristalis pertinax			Yes	no							
	Eristalis tenax			Yes	no							
	Eudasyphora cyanella			Yes	no							
	Eupeodes corollae			Yes	no							
	Eupeodes luniger			Yes	no							
	Fannia armata			Yes	no							
	Fannia atripes			Yes	no							
	Fannia lustrator			Yes	no							
	Fannia parva			Yes	no							
	Fannia serena			Yes	no							
	Ferdinandea cuprea			Yes	no							
	Gymnocheta viridis			Yes	no							
	Helina evecta			Yes	no							
	Helina pertusa			Yes	no							
	Helophilus trivittatus			Yes	no							
	Hercostomus cupreus			Yes	no							
	Hilara maura			Yes	no							
	Hybos culiciformis			Yes	no							
	Hydrellia			Yes	no							
	Hydrophoria			Yes	no							
	Hydrophoria conica			Yes	no							
	Hydrophorus bipunctatus			Yes	no							
	Hylemya partita			Yes	no							
	Hylemya variata			Yes	no							
	Jaapiella veronicae			Yes	no							
	Leptocera			Yes	no							

	Leptocera finalis			Yes	no							
	Leucozona lucorum			Yes	no							
	Limnophila ferruginea			Yes	no							
	Limnophila maculata			Yes	no							
	Limonia tripunctata			Yes	no							
	Limonia trivittata			Yes	no							
	Liriomyza flaveola			Yes	no							
	Lonchoptera furcata			Yes	no							
	Lonchoptera lutea			Yes	no							
	Lotophila atra			Yes	no							
	Lucilia caesar			Yes	no							
	Lyciella pallidiventris			Yes	no							
	Lyciella rorida			Yes	no							
	Lycoriella			Yes	no							
	Machimus cowini (Epitriptus cowini)	Manx Robber-fly	quailag roosteyr Manninagh	Yes	no							
	Macquartia dispar			Yes	no							
	Megaselia			Yes	no							
	Melanostoma mellinum			Yes	no							
	Melanostoma scalare			Yes	no							
	Mesembrina meridiana			Yes	no							
	Metasyrphus latifasciatus			Yes	no							
	Microchrysa polita			Yes	no							
	Myoleja caesio			Yes	no							
	Neomyia cornicina			Yes	no							
	Nephrotoma flavescens			Yes	no							
	Nephrotoma flavipalpis			Yes	no							
	Neurigona			Yes	no							
	Opomyza germinationis			Yes	no							
	Oscinella frit			Yes	no							
	Pedicia claripennis			Yes	no							

	<i>Pedicia immaculata</i>		Yes	no							
	<i>Pedicia rivosa</i>		Yes	no							
	<i>Pedicia straminea</i>		Yes	no							
	<i>Peplomyza litura</i>		Yes	no							
	<i>Phaonia angelicae</i>		Yes	no							
	<i>Phaonia errans</i>		Yes	no							
	<i>Phaonia serva</i>		Yes	no							
	<i>Phaonia tuguriorum</i>		Yes	no							
	<i>Pherbellia</i>		Yes	no							
	<i>Pherbellia cinerella</i>		Yes	no							
	<i>Philonicus albiceps</i>		Yes	no							
	<i>Phytomyza ilicis</i>	Holly Leaf Gall Fly	Yes	no							
	<i>Platycheirus albimanus</i>		Yes	no							
	<i>Platycheirus clypeatus</i> agg.		Yes	no							
	<i>Platycheirus manicatus</i>		Yes	no							
	<i>Platycheirus scutatus</i>		Yes	no							
	<i>Platypalpus pallidiventris</i>		Yes	no							
	<i>Platypalpus pictitarsis</i>		Yes	no							
	<i>Polietes lardaria</i>		Yes	no							
	<i>Pollenia rudis</i>		Yes	no							
	<i>Portevinia maculata</i>		Yes	no							
	<i>Psychoda setigera</i>		Yes	no							
	<i>Psychoda trinodulosa</i>		Yes	no							
	<i>Pyrophaena granditarsa</i>		Yes	no							
	<i>Rhamphomyia erythrothalma</i>		Yes	no							
	<i>Rhamphomyia tarsata</i>		Yes	no							
	<i>Rhingia</i>		Yes	no							
	<i>Rhingia campestris</i>		Yes	no							
	<i>Rivellia syngenesiae</i>		Yes	no							
	<i>Sapromyza</i>		Yes	no							
	<i>Sapromyza sordida</i>		Yes	no							

	<i>Sarcophaga carnaria</i>		Yes	no							
	<i>Sargus flavipes</i>		Yes	no							
	<i>Scaeva pyrastris</i>		Yes	no							
	<i>Scaptomyza</i>		Yes	no							
	<i>Scaptomyza graminum</i>		Yes	no							
	<i>Scaptomyza pallida</i>		Yes	no							
	<i>Scathophaga lutaria</i>		Yes	no							
	<i>Scathophaga stercoraria</i>		Yes	no							
	<i>Scatopsiara quinquelineata</i>		Yes	no							
	<i>Sciapus platypterus</i>		Yes	no							
	Sepsidae		Yes	no							
	<i>Sepsis cynipsea</i>		Yes	no							
	<i>Sepsis fulgens</i>		Yes	no							
	<i>Sepsis neocynipsea</i>		Yes	no							
	<i>Sericomyia lappona</i>		Yes	no							
	<i>Siphona geniculata</i>		Yes	no							
	<i>Siphona maculata</i>		Yes	no							
	<i>Sphaerophoria menthastri</i>		Yes	no							
	<i>Sphaerophoria scripta</i>		Yes	no							
	<i>Sphenella marginata</i>		Yes	no							
	Stratiomyidae		Yes	no							
	<i>Suillia imberbis</i>		Yes	no							
	<i>Suillia parva</i>		Yes	no							
	<i>Sylvicola punctatus</i>		Yes	no							
	<i>Sympycnus cirripes</i>		Yes	no							
	<i>Syntormon pallipes</i>		Yes	no							
	Syrphidae	Hoverfly	Yes	no							
	<i>Syrphus ribesii</i>		Yes	no							
	<i>Syrphus torvus</i>		Yes	no							
	<i>Syrphus vitripennis</i>		Yes	no							
	Tabanidae	Indet Horsefly	Yes	no							

	Tarnania dziedzickii		Yes	no						
	Tetanocera ferruginea		Yes	no						
	Themira		Yes	no						
	Thricops diaphanus		Yes	no						
	Tipula fulvipennis		Yes	no						
	Tipula marmorata		Yes	no						
	Tipula maxima	large Crane fly	Yes	no						
	Tipula pagana		Yes	no						
	Tipula paludosa		Yes	no						
	Tipula scripta		Yes	no						
	Tipula staegeri		Yes	no						
	Tipulidae		Yes	no						
	Trichocera saltator		Yes	no						
	Trichosia glabra		Yes	no						
	Voria ruralis		Yes	no						
	Xylota segnis		Yes	no						
	Tachina grossa		Yes	no						
	Volucella pelluscens		Yes	no						
	Sericomyia silentis		Yes	no						
	Bombylius minor	Heath beefly	Yes	no				yes		

Table 2: Birds

Group	Common name	Scientific Name	Local Name	Native	Endemic	Red/amber List	UK BAP	Comments	OSPAR
resident birds (76)	Fulmar	<i>Fulmarus glacialis</i>	Eean Croymmagh	yes	No				
	Cormorant	<i>Phalacrocorax carbo</i>	Shag. Fannag or Feeagh Varrey = Sea Crow or Raven Arragh Vooar	yes	No				
	Shag	<i>Phalacrocorax aristotelis</i>	as for Cormorant	yes	No				
	Grey Heron	<i>Ardea cinerea</i>	Coayr. Coayr ny Hastan = Crane of the Eel, Coayr Glass = Grey Crane	yes	No				
	Mute Swan	<i>Cygnus olor</i>	Ollay = Swan	yes	No				
	Greylag Goose	<i>Anser anser</i>	Guiy feie = Wild Goose	yes	No				
	Canada Goose	<i>Branta canadensis</i>		yes	No				
	Mallard	<i>Anas platyrhynchos</i>	Thunnag feie = Wild Duck	yes	No				
	Tufted Duck	<i>Aythya fuligula</i>	Thunnag Happagh	yes	No				
	Ruddy Duck	<i>Oxyura jamaicensis</i>		no	No				
	Hen Harrier	<i>Circus cyaneus</i>		yes	No	yes			
	Sparrowhawk	<i>Accipiter nisus</i>	Shawk, Shirragh = Hawk, Shirragh ny Giark = Hen Searcher	yes	No				
	Kestrel	<i>Falco tinnunculus</i>	Stannair Ruy	yes	No				
	Peregrine Falcon	<i>Falco peregrinus</i>	Shirragh y Ree	yes	No				
	Red Grouse	<i>Lagopus lagopus</i>	Kellagh Ruy = Red Cock, Kiark Freoale = Heath Hen	yes	No				
	Red-legged Partridge	<i>Alectorix rufa</i>		yes	No				

	Grey Partridge	<i>Perdix perdix</i>	Kiark Rennee = Fern Hen	yes	No	yes	yes		
	Pheasant	<i>Phasianus colchicus</i>		yes	No				
	Water Rail	<i>Rallus aquaticus</i>	Drean Ushtey = Water Wren	yes	No				
	Moorhen	<i>Gallinula chloropus</i>	Kiark Ushtey = Water Hen	yes	No				
	Coot	<i>Fulica atra</i>		yes	No				
	Oystercatcher	<i>Haematopus ostralegus</i>	Garee breck = Pied Creature (north), Bridgeen (south)	yes	No				
	Ringed Plover	<i>Charadrius hiaticula</i>	Feddag Ainnit	yes	No				
	Lapwing	<i>Vanellus vanellus</i>	Earkan	yes	No	yes			
	Snipe	<i>Gallinago gallinago</i>	Coayr Heddagh = Spear-face	yes	No				
	Woodcock	<i>Scolopax rusticola</i>	Ushag Rennee = Fern Bird	yes	No				
	Curlew	<i>Numenius arquata</i>	Crottag i.e., Cruittagh = Humped	yes	No				
	Redshank	<i>Tringa totanus</i>	Goblan Marrey = Beaked bird of the sea	yes	No				
	Black-headed Gull	<i>Larus ridibundus</i>	Pirragh	yes	No				
	Common Gull	<i>Larus canus</i>	Foillan Vane	yes	No				
	Herring Gull	<i>Larus argentatus</i>	Foillan	yes	No	yes			
	Great Black- backed Gull	<i>Larus marinus</i>	Juan Mooar = Big John	yes	No				
	Black Guillemot	<i>Cephus grylle</i>	Caillagh Ghoo	yes	No				
	Rock Dove or Feral Pigeon	<i>Columba livia</i>	Calmane ny Creggey	yes	No				
	Stock Dove	<i>Columba oenas</i>	Calmane Gorrym	yes	No				
	Wood Pigeon	<i>Columba palumbus</i>	Calmane keylley	yes	No				
	Collared Dove	<i>Streptopelia decaocto</i>		yes	No				
	Barn Owl	<i>Tyto alba</i>	Screeaghag oie = Night-screecher	yes	No				

	Long-eared Owl	<i>Asio otus</i>	Hullad. Kione chayt = Cat's Head	yes	No				
	Short-eared Owl	<i>Asio flammeus</i>		yes	No				
	Skylark	<i>Aluada arvensis</i>	Ushag Tappagh, Ushag y Tappee, Ushag Happagh	yes	No	yes	yes		
	Meadow Pipit	<i>Anthus pratensis</i>	Tweet or Cheet. Ushag y Veet	yes	No				
	Rock Pipit	<i>Anthus petrosus</i>	Fushag Varrey	yes	No				
	Grey Wagtail	<i>Motacilla cinerea</i>	Ushag Ghlass	yes	No				
	White (Pied) Wagtail	<i>Motacilla alba</i>	Ushag Vreck = Pied Bird, Ushag voltee = Weather Bird	yes	No				
	Wren	<i>Troglodytes troglodytes</i>	Drean	yes	No				
	Dunnock	<i>Prunella modularis</i>	Drean mollagh = Rough Wren, Bog Keeir = Grey Poor One	yes	No				
	Robin	<i>Erithacus rubecula</i>	Cleean jiarg = Redbreast. Spiitag	yes	No				
	Stonechat	<i>Saxicola torquata</i>	Boid y chonnee = Point of the Gorse, Kione dhoo y eeigyn = Black head of the stacks	yes	No				
	Blackbird	<i>Turdus merula</i>		yes	No				
	Song Thrush	<i>Turdus philomelos</i>	Lhon. Thresh len	yes	No	yes	yes		
	Mistle Thrush	<i>Turdus viscivorus</i>	Lhon Keylley	yes	No				
	Goldcrest	<i>Regulus regulus</i>	Ushag y fuygh = Bird of the timber	yes	No				
	Long-tailed Tit	<i>Aegithalos caudatus</i>	Caillagh Veg yn Arbyl	yes	No				
	Coal Tit	<i>Parus ater</i>		yes	No				
	Blue Tit	<i>Parus caeruleus</i>	Drean Gorrym	yes	No				
	Great Tit	<i>Parus major</i>	Drean Mooar	yes	No				
	Treecreeper	<i>Certhia familiaris</i>	Snaueyder	yes	No				
	Magpie	<i>Pica pica</i>	Pieanat, Piannad	yes	No				

	Chough	<i>Pyrrhocorax pyrrhocorax</i>	Caaig	yes	No				
	Jackdaw	<i>Corvus monedula</i>	Caaig, Juan teayst = John Dough	yes	No				
	Rook	<i>Corvus frugilegus</i>	Trogh	yes	No				
	Carrion (Hooded) Crow	<i>Corvus corone</i>	Fannag Ghlass	yes	No				
	Raven	<i>Corvus corax</i>	Feeagh, Feeagh Vooar	yes	No				
	Starling	<i>Sturnus vulgaris</i>	Truitlag	yes	No	yes			
	House Sparrow	<i>Passer domesticus</i>	Jallyn	yes	No	yes			
	Tree Sparrow	<i>Passer montanus</i>		yes	No	yes	yes		
	Chaffinch	<i>Fringilla coelebs</i>	Ushag y Choan = Bird of the valley, Ushag veg vreck = Little pied bird	yes	No				
	Greenfinch	<i>Carduelis chloris</i>	Corkan Keylley glass	yes	No				
	Goldfinch	<i>Carduelis carduelis</i>	Lossey ny Keylley = Flame of the woods, Kiark my Leydee = My lady's hen	yes	No				
	Siskin	<i>Carduelis spinus</i>		yes	No				
	Linnet	<i>Carduelis cannabina</i>	Fillip ny Kempey = Sparrow of the hemp, Ushag y lieen = Bird of the flax	yes	No	yes	yes		
	Redpoll	<i>Carduelis flammea</i>	Bytermyn dhone, Lossan ruy	yes	No				
	Crossbill	<i>Loxia curvirostr</i>		yes	No				
	Yellowhammer	<i>Emberiza citrinella</i>	Ushag vuigh = Yellow bird	yes	No	yes			
	Reed Bunting	<i>Emberiza schoeniculus</i>	Pompee ny Guirtlagh	yes	No		yes		
summer species (32)									
	Manx Shearwater	<i>Puffinus puffinus</i>	Scraayl	yes	no				

	Storm Petrel	<i>Hydrobates pelagicus</i>	Kitty Varrey = Sea Kitty ie Wren	yes	no				
	Gannet	<i>Morus bassanus</i>	Gant	yes	no				
	Shelduck	<i>Tadorna tadorna</i>	Thunnag y Scape	yes	no				
	Eider	<i>Somateria mollissima</i>	Laagh Loughlinagh	yes	no				
	Quail	<i>Cortunix cortunix</i>	Eean Feie	yes	no				
	Corncrake	<i>Crex crex</i>	Eean Raip = the bird (which cries) 'raip'	yes	no	yes	yes		
	Whimbrel	<i>Numenius phaeopus</i>		yes	no	yes			
	Common Sandpiper	<i>Actitis hypoleucos</i>	Looyran	yes	no				
	Lesser Black-backed Gull	<i>Larus fuscus</i>	Foillan Saggyrt = Priest Gull	yes	no				yes
	Kittiwake	<i>Rissa tridactyla</i>	Perragh	yes	no				yes
	Sandwich Tern	<i>Sterna sandvicensis</i>		yes	no				
	Arctic Tern	<i>Sterna paradisaea</i>		yes	no				
	Little Tern	<i>Sterna albifrons</i>	Gant Beg	yes	no				
	Guillemot	<i>Uria aalge</i>	Stronnag. Chennell	yes	no				
	Razorbill	<i>Alca torda</i>	Coltrag	yes	no				
	Puffin	<i>Fratercula arctica</i>	Pibbin. Poltrag	yes	no				
	Cuckoo	<i>Cuculus canorus</i>	Cooag	yes	no	yes			
	Swift	<i>Apus apus</i>	Gollan ny Greg	yes	no				
	Sand Martin	<i>Riparia riparia</i>	Gollan Geinnee	yes	no				
	Swallow	<i>Hirundo rustica</i>	Gollan geayee = Fork of the Wind	yes	no				
	House Martin	<i>Delichon urbica</i>	Gollan Thie	yes	no				
	Whinchat	<i>Saxicola rubetra</i>		yes	no				
	Wheatear	<i>Oenanthe oenanthe</i>	Claggan cloaie	yes	no				
	Grasshopper Warbler	<i>Locustella naevia</i>		yes	no	yes			
	Sedge Warbler	<i>Acrocephalus schoenobaneus</i>		yes	no				
	Whitethroat	<i>Sylvia communis</i>	Fynnag ny Keylley	yes	no				

	Blackcap	<i>Sylvia atricapilla</i>	Bayrn dhoo	yes	no				
	Wood Warbler	<i>Phylloscopus sibilatrix</i>	Kiaulleyder Keylley	yes	no	yes			
	Chiffchaff	<i>Phylloscopus collybita</i>	Beealerey	yes	no				
	Willow Warbler	<i>Phylloscopus trochilus</i>	Drean Vane = White Wren	yes	no				
	Spotted Flycatcher	<i>Muscicapa striata</i>	Skybbyltagh breck	yes	no	yes	yes		
winter visitors (46)	Red-throated Diver	<i>Gavia stellata</i>	Lhargey Mooar	yes	no				
	Black-throated Diver	<i>Gavia arctica</i>	Lhargey	yes	no				
	Great Northern Diver	<i>Gavia immer</i>	Arrag Vooar = Big Pullet. Thummeyder	yes	no				
	Little Grebe	<i>Tachybaptus ruficollis</i>	Eean Kereen Beg	yes	no				
	Bewick's Swan	<i>Cygnus columbianus</i>		yes	no				
	Whooper Swan	<i>Cygnus cygnus</i>	Ollay Chiaullee	yes	no				
	Pink-footed Goose	<i>Anser brachyrhynchus</i>		yes	no				
	Shelduck	<i>Tadorna tadorna</i>	Thunnag y Scape	yes	no				
	Wigeon	<i>Anas penelope</i>	Thunnag veg feie = Little Wild Duck	yes	no				
	Teal	<i>Anas crecca</i>	Laagh Laaghag	yes	no				
	Shoveler	<i>Anas clypeata</i>	Thunnag ny Sleryst	yes	no				
	Pochard	<i>Aythya ferina</i>	Kione Mollagh	yes	no				
	Scaup	<i>Aythya marila</i>	Thunnag Varrey	yes	no	yes			
	Eider	<i>Somateria mollissima</i>	Laagh Loughlinagh	yes	no				
	Long-tailed Duck	<i>Clangula hyemalis</i>	Laagh Lheeah	yes	no				
	Common Scoter	<i>Melanitta nigra</i>		yes	no	yes	yes		
	Goldeneye	<i>Bucephala clangula</i>	Laaghag Hooillagh	yes	no				
	Red-breasted Merganser	<i>Mergus serrator</i>	Thunnag Cleeau Yiarg	yes	no				
	Merlin	<i>Falco columbarius</i>		yes	no				

	Golden Plover	<i>Pluvialis apricaria</i>	Ushag Reeast = Bird of the Waste, Fedjag Reeast = Whistler of the Waste	yes	no				
	Grey Plover	<i>Pluvialis squatarola</i>		yes	no				
	Lapwing	<i>Vanellus vanellus</i>	Earkan	yes	no	yes			
	Purple Sandpiper	<i>Calidris maritima</i>		yes	no				
	Dunlin	<i>Calidris alpina</i>	Breck ny Traie	yes	no	yes			
	Jack Snipe	<i>Lymnocyptes minimus</i>		yes	no				
	Snipe	<i>Gallinago gallinago</i>	Coayr Heddagh = Spear-face	yes	no				
	Woodcock	<i>Scolopax rusticola</i>	Ushag Rennee = Fern Bird	yes	no				
	Bar-tailed Godwit	<i>Limosa lapponica</i>		yes	no				
	Curlew	<i>Numenius arquata</i>	Crottag i.e., Cruittagh = Humped	yes	no				
	Redshank	<i>Tringa totanus</i>	Goblan Marrey = Beaked bird of the sea	yes	no				
	Turnstone	<i>Arenaria interpres</i>	Goblaghan	yes	no				
	Black-headed Gull	<i>Larus ridibundus</i>	Pirragh	yes	no				
	Common Gull	<i>Larus canus</i>	Foillan Vane	yes	no				
	Guillemot	<i>Uria aalge</i>	Stronnag. Chennell	yes	no				
	Razorbill	<i>Alca torda</i>	Coltrag	yes	no				
	Little Auk	<i>Alle alle</i>	Coltrag Veg	yes	no				
	Short-eared Owl	<i>Asio flammeus</i>		yes	no				
	Waxwing	<i>Bombycilla garrulus</i>		yes	no				
	Black Redstart	<i>Phoenicurus ochruros</i>		yes	no				

	Fieldfare	<i>Turdus pilaris</i>	Ushag sniaghtey = Snow bird	yes	no	yes			
	Redwing	<i>Turdus iliacus</i>	Lhon Geayee	yes	no	yes			
	Blackcap	<i>Sylvia atricapilla</i>	Bayrn dhoo	yes	no				
	Chiffchaff	<i>Phylloscopus collybita</i>	Beealerey	yes	no				
	Brambling	<i>Fringilla montifringilla</i>		yes	no				
	Twite	<i>Carduelis flavirostris</i>		yes	no	yes			
	Snow Bunting	<i>Plectrophenax nivalis</i>	Pompee sniaghtee	yes	no				
passage species (110)	Red-throated Diver	<i>Gavia stellata</i>	Lhargey Mooar	yes	no				
	Black-throated Diver	<i>Gavia arctica</i>	Lhargey	yes	no				
	Great Northern Diver	<i>Gavia immer</i>	Arrag Vooar = Big Pullet. Thummeyder	yes	no				
	Little Grebe	<i>Tachybaptus ruficollis</i>	Eean Kereen Beg	yes	no				
	Great Crested Grebe	<i>Podiceps cristatus</i>	Eean Kereen	yes	no				
	Fulmar	<i>Fulmarus glacialis</i>	Eean Croymmagh	yes	no				
	Manx Shearwater	<i>Puffinus puffinus</i>	Scraayl	yes	no				
	Storm Petrel	<i>Hydrobates pelagicus</i>	Kitty Varrey = Sea Kitty ie Wren	yes	no				
	Leach's Petrel	<i>Oceanodroma leucorhoa</i>		yes	no				
	Gannet	<i>Morus bassanus</i>	Gant	yes	no				
	Bewick's Swan	<i>Cygnus columbianus</i>		yes	no				
	Whooper Swan	<i>Cygnus cygnus</i>	Ollay Chiaullee	yes	no				
	Pink-footed Goose	<i>Anser brachyrhynchus</i>		yes	no				
	Brent Goose	<i>Branta bernicla</i>		yes	no				
	Shelduck	<i>Tadorna tadorna</i>	Thunnag y Scape	yes	no				
	Wigeon	<i>Anas penelope</i>	Thunnag veg feie = Little Wild Duck	yes	no				
	Teal	<i>Anas crecca</i>	Laagh Laaghag	yes	no				
	Pintail	<i>Anas acuta</i>	Laagh fammanagh	yes	no				

	Scaup	<i>Aythya marila</i>	Thunnag Varrey	yes	no	yes			
	Eider	<i>Somateria mollissima</i>	Laagh Loughlinagh	yes	no				
	Long-tailed Duck	<i>Clangula hyemalis</i>	Laagh Lheeah	yes	no				
	Common Scoter	<i>Melanitta nigra</i>		yes	no	yes	yes		
	Goldeneye	<i>Bucephala clangula</i>	Laaghag Hooillagh	yes	no				
	Red-breasted Merganser	<i>Mergus serrator</i>	Thunnag Cleeau Yiarg	yes	no				
	Merlin	<i>Falco columbarius</i>		yes	no				
	Quail	<i>Cortunix cortunix</i>	Eean Feie	yes	no				
	Corncrake	<i>Crex crex</i>	Eean Raip = the bird (which cries 'raip')	yes	no	yes	yes		
	Golden Plover	<i>Pluvialis apricaria</i>	Ushag Reeast = Bird of the Waste, Fedjag Reeast = Whistler of the Waste	yes	no				
	Grey Plover	<i>Pluvialis squatarola</i>		yes	no				
	Lapwing	<i>Vanellus vanellus</i>	Earkan	yes	no	yes			
	Knot	<i>Calidris canutus</i>		yes	no				
	Sanderling	<i>Calidris alba</i>		yes	no				
	Little Stint	<i>Calidris minuta</i>		yes	no				
	Dunlin	<i>Calidris alpina</i>	Breck ny Traie	yes	no	yes			
	Curlew Sandpiper	<i>Calidris ferruginea</i>		yes	no				
	Ruff	<i>Philomachus pugnax</i>		yes	no	yes			
	Snipe	<i>Gallinago gallinago</i>	Coayr Heddagh = Spear-face	yes	no				
	Woodcock	<i>Scolopax rusticola</i>	Ushag Rennee = Fern Bird	yes	no				
	Black-tailed Godwit	<i>Limosa limosa</i>		yes	no	yes			
	Whimbrel	<i>Numenius phaeopus</i>		yes	no	yes			
	Curlew	<i>Numenius arquata</i>	Crottag i.e., Cruittagh =	yes	no				

			Humped						
	Redshank	<i>Tringa totanus</i>	Goblan Marrey = Beaked bird of the sea	yes	no				
	Greenshank	<i>Tringa nebularia</i>		yes	no				
	Common Sandpiper	<i>Actitis hypoleucos</i>	Looyran	yes	no				
	Turnstone	<i>Arenaria interpres</i>	Goblaghan	yes	no				
	Pomarine Skua	<i>Stercorarius pomarinus</i>		yes	no				
	Arctic Skua	<i>Stercorarius parasiticus</i>	Shirragh Varrey	yes	no	yes			
	Great Skua	<i>Stercorarius skua</i>	Maarliagh Marrey	yes	no				
	Little Gull	<i>Larus minutus</i>		yes	no				
	Black-headed Gull	<i>Larus ridibundus</i>	Pirragh	yes	no				
	Common Gull	<i>Larus canus</i>	Foillan Vane	yes	no				
	Lesser Black-backed Gull	<i>Larus fuscus</i>	Foillan Saggyrt = Priest Gull	yes	no				
	Kittiwake	<i>Rissa tridactyla</i>	Perragh	yes	no				
	Sandwich Tern	<i>Sterna sandvicensis</i>		yes	no				
	Common Tern	<i>Sterna hirundo</i>	Gibbyn Gant = Gannet of the Sand-eels, Spyrryd. Spithag	yes	no				
	Arctic Tern	<i>Sterna paradisaea</i>		yes	no				
	Little Tern	<i>Sterna albifrons</i>	Gant Beg	yes	no				
	Guillemot	<i>Uria aalge</i>	Stronnag. Chennell	yes	no				
	Razorbill	<i>Alca torda</i>	Coltrag	yes	no				
	Little Auk	<i>Alle alle</i>	Coltrag Veg	yes	no				
	Puffin	<i>Fratercula arctica</i>	Pibbin. Poltrag	yes	no				
	Turtle Dove	<i>Streptopelia turtur</i>	Calmane Coe	yes	no	yes	yes		
	Cuckoo	<i>Cuculus canorus</i>	Cooag	yes	no	yes			
	Long-eared Owl	<i>Asio otus</i>	Hullad. Kione chayt = Cat's Head	yes	no				
	Swift	<i>Apus apus</i>	Gollan ny Greg	yes	no				

	Kingfisher	<i>Alcedo atthis</i>	Ushag Awiney = River Bird	yes	no				
	Skylark	<i>Aluada arvensis</i>	Ushag Tappagh, Ushag y Tappee, Ushag Happagh	yes	no	yes	yes		
	Sand Martin	<i>Riparia riparia</i>	Gollan Geinnee	yes	no				
	Swallow	<i>Hirundo rustica</i>	Gollan geayee = Fork of the Wind	yes	no				
	House Martin	<i>Delichon urbica</i>	Gollan Thie	yes	no				
	Tree Pipit	<i>Anthus trivialis</i>		yes	no	yes			
	Yellow Wagtail	<i>Motacilla flava</i>		yes	no	yes			
	Grey Wagtail	<i>Motacilla cinerea</i>	Ushag Ghlass	yes	no				
	White (Pied) Wagtail	<i>Motacilla alba</i>	Ushag Vreck = Pied Bird, Ushag voltee = Weather Bird	yes	no				
	Waxwing	<i>Bombycilla garrulus</i>		yes	no				
	Robin	<i>Erithacus rubecula</i>	Cleean jiarg = Redbreast. Spiitag	yes	no				
	Black Redstart	<i>Phoenicurus ochruros</i>		yes	no				
	Redstart	<i>Pheonicurus pheonicurus</i>		yes	no				
	Whinchat	<i>Saxicola rubetra</i>		yes	no				
	Wheatear	<i>Oenanthe oenanthe</i>	Claggan cloaie	yes	no				
	Ring Ouzel	<i>Turdus torquatus</i>		yes	no	yes			
	Blackbird	<i>Turdus merula</i>		yes	no				
	Fieldfare	<i>Turdus pilaris</i>	Ushag sniaghtey = Snow bird	yes	no	yes			
	Song Thrush	<i>Turdus philomelos</i>	Lhon. Thresh len	yes	no	yes	yes		
	Redwing	<i>Turdus iliacus</i>	Lhon Geayee	yes	no	yes			
	Grasshopper Warbler	<i>Locustella naevia</i>		yes	no	yes			
	Sedge Warbler	<i>Acrocephalus schoenobaneus</i>		yes	no				
	Reed Warbler	<i>Acrocephalus scirpaceus</i>		yes	no				

	Lesser Whitethroat	<i>Sylvia curruca</i>		yes	no				
	Whitethroat	<i>Sylvia communis</i>	Fynnag ny Keylley	yes	no				
	Garden Warbler	<i>Sylvia borin</i>	Kiaulleyder garee	yes	no				
	Blackcap	<i>Sylvia atricapilla</i>	Bayrn dhoo	yes	no				
	Wood Warbler	<i>Phylloscopus sibilatrix</i>	Kiaulleyder Keylley	yes	no	yes			
	Chiffchaff	<i>Phylloscopus collybita</i>	Beealerey	yes	no				
	Willow Warbler	<i>Phylloscopus trochilus</i>	Drean Vane = White Wren	yes	no				
	Goldcrest	<i>Regulus regulus</i>	Ushag y fuygh = Bird of the timber	yes	no				
	Spotted Flycatcher	<i>Muscicapa striata</i>	Skybbyltagh breck	yes	no	yes	yes		
	Pied Flycatcher	<i>Ficedula hypoleuca</i>		yes	no				
	Starling	<i>Sturnus vulgaris</i>	Truitlag	yes	no	yes			
	Chaffinch	<i>Fringilla coelebs</i>	Ushag y Choan = Bird of the valley, Ushag veg vreck = Little pied bird	yes	no				
	Brambling	<i>Fringilla montifringilla</i>		yes	no				
	Greenfinch	<i>Carduelis chloris</i>	Corkan Keylley glass	yes	no				
	Goldfinch	<i>Carduelis carduelis</i>	Lossey ny Keylley = Flame of the woods, Kiark my Leydee = My lady's hen	yes	no				
	Siskin	<i>Carduelis spinus</i>		yes	no				
	Linnet	<i>Carduelis cannabina</i>	Fillip ny Kempey = Sparrow of the hemp, Ushag y lieen = Bird of the flax	yes	no	yes	yes		
	Twite	<i>Carduelis flavirostris</i>		yes	no	yes			
	Redpoll	<i>Carduelis flammea</i>	Bytermmyn dhone, Lossan ruy	yes	no				
	Crossbill	<i>Loxia curvirostr</i>		yes	no				
	Lapland Bunting	<i>Calciarius lapponicus</i>		yes	no				
	Snow Bunting	<i>Plectrophenax nivalis</i>	Pompee sniaghtee	yes	no				

Vagrants (125)	Red-necked Grebe	<i>Podiceps grisegena</i>	Eean Kereen Jiarg	yes	no				
	Slavonian Grebe	<i>Podiceps auritus</i>	Eean Kereen Cleayshagh	yes	no				
	Black-necked Grebe	<i>Podiceps nigricollis</i>		yes	no				
	Cory's Shearwater	<i>Calonectris diomedea</i>		yes	no				
	Great Shearwater	<i>Puffinus gravis</i>		yes	no				
	Sooty Shearwater	<i>Puffinus griseus</i>		yes	no				
	Mediterranean Shearwater	<i>Puffinus mauritanicus</i>		yes	no				
	Little Shearwater	<i>Puffinus assimilis</i>		yes	no				yes
	Bittern	<i>Botaurus stellaris</i>		yes	no	yes	yes		
	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>		yes	no				
	Little Egret	<i>Egretta garzetta</i>		yes	no				
	Spoonbill	<i>Platalea leucorodia</i>		yes	no				
	Bean Goose	<i>Anser fabalis</i>	Guiy Poanrey	yes	no				
	White-fronted Goose	<i>Anser albifrons</i>		yes	no				
	Snow Goose	<i>Anser caerulescens</i>		no	no				
	Barnacle Goose	<i>Branta leucopsis</i>	Guiy ny Twoaie		no				
	Egyptian Goose	<i>Alopochen aegyptiacus</i>		no	no				
	Muscovy Duck	<i>Cairina moschata</i>		no	no				
	Wood Duck	<i>Aix sponsa</i>		no	no				
	Mandarin Duck	<i>Aix galericulata</i>		no	no				
	Gadwall	<i>Anas strepera</i>	Laagh ghlass	yes	no				
	Green-winged Teal	<i>Anas crecca carolinensis</i>		yes	no				
	Garganey	<i>Anas querquedula</i>		yes	no				
	Red-crested Pochard	<i>Netta rufina</i>		yes	no				
	Ferruginous	<i>Aythya nyroca</i>		yes	no				

	Duck							
	Velvet Scoter	<i>Melanitta fusca</i>		yes	no			
	Smew	<i>Mergus albellus</i>		yes	no			
	Goosander	<i>Mergus merganser</i>	Laagh 'Eeacklagh	yes	no			
	Honey Buzzard	<i>Pernis apivorus</i>		yes	no			
	Black Kite	<i>Milvus migrans</i>		yes	no			
	Red Kite	<i>Milvus milvus</i>		yes	no			
	Marsh Harrier	<i>Circus aeruginosus</i>		yes	no			
	Goshawk	<i>Accipiter gentilis</i>		yes	no			
	Buzzard	<i>Buteo buteo</i>		yes	no			
	Rough-legged Buzzard	<i>Buteo lagopus</i>		yes	no			
	Golden Eagle	<i>Aquila chrysaetos</i>	Urley	yes	no			
	Osprey	<i>Pandion haliaetus</i>		yes	no			
	Red-footed Falcon	<i>Falco vespertinus</i>		yes	no			
	Hobby	<i>Falco subbuteo</i>		yes	no			
	Spotted Crake	<i>Porzana porzana</i>		yes	no			
	Baillon's Crake	<i>Porzana pusilla</i>		yes	no			
	Crane	<i>Grus grus</i>		yes	no			
	Stone Curlew	<i>Burhinus oedicephalus</i>		yes	no			
	Little Ringed Plover	<i>Charadrius dubius</i>		yes	no			
	Kentish Plover	<i>Charadrius alexandrinus</i>		yes	no			
	Dotterel	<i>Charadrius morinellus</i>		yes	no			
	Temminck's Stint	<i>Calidris temminckii</i>		yes	no	yes		
	Buff-breasted Sandpiper	<i>Tryngites subruficollis</i>		yes	no			
	Long-billed Dowitcher	<i>Limnodromus scolopaceus</i>		yes	no			
	Spotted Redshank	<i>Tringa erythropus</i>		yes	no			
	Lesser Yellowlegs	<i>Tringa flavipes</i>		yes	no			

	Green Sandpiper	<i>Tringa ochropus</i>		yes	no				
	Wood Sandpiper	<i>Tringa glareola</i>		yes	no				
	Red-necked Phalarope	<i>Phalaropus lobatus</i>		yes	no	yes	yes		
	Grey Phalarope	<i>Phalaropus fulicarius</i>		yes	no				
	Long-tailed Skua	<i>Stercorarius longicaudus</i>		yes	no				
	Mediterranean Gull	<i>Larus melanocephalus</i>		yes	no				
	Sabine's Gull	<i>Larus sabini</i>		yes	no				
	Iceland Gull	<i>Larus glaucoides</i>	Foillan Loughlinagh	yes	no				
	Glaucous Gull	<i>Larus hyperboreus</i>		yes	no				
	Roseate Tern	<i>Sterna dougallii</i>		yes	no	yes	yes		yes
	Bridled Tern	<i>Sterna anaethetus</i>		yes	no				
	Black Tern	<i>Childonias niger</i>		yes	no				
	Mourning Dove	<i>Zenaida macroura</i>		yes	no				
	Rose-ringed Parakeet	<i>Psittacula krameri</i>		no	no				
	Great Spotted Cuckoo	<i>Clamator glandarius</i>		yes	no				
	Scops Owl	<i>Otus scops</i>		yes	no				
	Little Owl	<i>Athene noctua</i>		yes	no				
	Tawny Owl	<i>Strix aluco</i>		yes	no				
	Nightjar	<i>Caprimulgus europaeus</i>	Ushag ny Hoie	yes	no	yes	yes		
	Alpine Swift	<i>Apus melba</i>		yes	no				
	Bee-eater	<i>Merops apiaster</i>		yes	no				
	Roller	<i>Coracias garrulus</i>		yes	no				
	Hoopoe	<i>Upupa epops</i>		yes	no				
	Wryneck	<i>Jynx torquilla</i>		yes	no	yes			
	Green Woodpecker	<i>Picus viridis</i>	Snoggeyder Glass	yes	no				
	Great Spotted Woodpecker	<i>Dendrocopos major</i>	Snoggeyder	yes	no				

	Calandra Lark	<i>Melanocorypha calandra</i>		yes	no				
	Woodlark	<i>Lullula arborea</i>		yes	no		yes		
	Shore Lark	<i>Eremophila alpestris</i>		yes	no				
	Richard's Pipit	<i>Anthus novaeseelandiae</i>		yes	no				
	Tawny Pipit	<i>Anthus campestris</i>		yes	no				
	Pechora Pipit	<i>Anthus gustavi</i>		yes	no				
	Water Pipit	<i>Anthus spinoletta</i>		yes	no				
	Dipper	<i>Cinclus cinclus</i>	Lhondhoo ny Hawin = Blackbird of the Stream	yes	no				
	Thrush Nightingale	<i>Luscinia luscinia</i>		yes	no				
	Nightingale	<i>Luscinia megarhynchos</i>		yes	no				
	Bluethroat	<i>Luscinia svecica</i>		yes	no				
	White-throated Robin	<i>Irania gutturalis</i>		yes	no				
	Black-eared Wheatear	<i>Oenanthe hispanica</i>		yes	no				
	Aquatic Warbler	<i>Acrocephalus paludicola</i>		yes	no	yes	yes		
	Marsh Warbler	<i>Acrocephalus palustris</i>		yes	no	yes			
	Icterine Warbler	<i>Hippolais icterina</i>		yes	no				
	Melodious Warbler	<i>Hippolais polyglotta</i>		yes	no				
	Subalpine Warbler	<i>Sylvia cantillans</i>		yes	no				
	Sardinian Warbler	<i>Sylvia melanocephala</i>		yes	no				
	Barred Warbler	<i>Sylvia nisoria</i>		yes	no				
	Greenish Warbler	<i>Phylloscopus trochiloides</i>		yes	no				
	Pallas's Leaf Warbler	<i>Phylloscopus proregulus</i>		yes	no				
	Yellow-browed Warbler	<i>Phylloscopus inornatus</i>		yes	no				

	Dusky Warbler	<i>Phylloscopus fuscatus</i>		yes	no				
	Bonelli's Warbler	<i>Phylloscopus bonelli</i>		yes	no				
	Firecrest	<i>Regulus ignicapillus</i>		yes	no				
	Red-breasted Flycatcher	<i>Ficedula parva</i>		yes	no				
	Bearded Tit	<i>Panurus biarmicus</i>		yes	no				
	Marsh Tit	<i>Parus palustris</i>		yes	no	yes			
	Nuthatch	<i>Sitta europaea</i>		yes	no				
	Golden Oriole	<i>Oriolus oriolus</i>		yes	no	yes			
	Red-backed Shrike	<i>Lanius collurio</i>		yes	no	yes			
	Great Grey Shrike	<i>Lanius excubitor</i>		yes	no				
	Woodchat Shrike	<i>Lanius senator</i>		yes	no				
	Jay	<i>Garrulus glandarius</i>		yes	no				
	Serin	<i>Serinus serinus</i>		yes	no				
	Arctic Redpoll	<i>Carduelis hornemanni</i>		yes	no				
	Common Rosefinch	<i>Carpodacus erythrinus</i>		yes	no				
	Bullfinch	<i>Pyrrhula pyrrhula</i>		yes	no				
	Hawfinch	<i>Coccothraustes coccothraustes</i>		yes	no	yes			
	Yellow-rumped Warbler	<i>Dendroica coronata</i>		yes	no				
	Song Sparrow	<i>Zonotrichia melodia</i>		yes	no				
	Ortolan Bunting	<i>Emberiza hortulana</i>		yes	no				
	Rustic Bunting	<i>Emberiza rustica</i>		yes	no				
	Little Bunting	<i>Emberiza pusilla</i>		yes	no				
	Red-headed Bunting	<i>Emberiza bruniceps</i>		yes	no				
	Black-headed Bunting	<i>Emberiza melanocephala</i>		yes	no				
	Baltimore Oriole	<i>Icterus galbula</i>		yes	no				

Table 3: Non-avian vertebrates

Group	Scientific Name	Common name	Local Name	Native	Endemic	global Red List	UK BAP	protected	OSPARR	ASCOBANS	CMS appendix 1
Bats	<i>Pipistrellus pipistrellus</i>	Common pipistrelle		yes	no		yes	yes			yes
	<i>Plecotus auritus</i>	Brown long-eared bat		yes	no			yes			yes
	<i>Myotis daubentonii</i>	Daubenton's bat		yes	no			yes			yes
	<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle		yes	no			yes			yes
	<i>Nyctalus leisleri</i>	Leisler's bat		yes	no			yes			yes
	<i>Myotis nattereri</i>	Natterer's bat		yes	no			yes			yes
	<i>Myotis mystacinus</i>	Whiskered bat		yes	no			yes			yes
Mammals	<i>Lepus europaeus</i>	Brown Hare		no	no		yes				
	<i>Lepus timidus</i>	Mountain Hare		no	no						
	<i>Oryctolagus cuniculus</i>	Rabbit		no	no						
	<i>Mustela erminea</i>	Stoat		yes	no	?					
	<i>Sorex minutus</i>	Pygmy Shrew		yes	no						
	<i>Erinaceus europaeus</i>	Hedgehog		no	no						
	<i>Apodemus sylvaticus</i>	Long Tailed Field/Wood Mouse		yes	no						
	<i>Mus domesticus</i>	House mouse		no	no						
	<i>Rattus norvegicus</i>	Brown Rat		no	no						
	<i>Macropus rufogriseus</i>	Red necked Wallaby		no	no						
	<i>Mustela lutreola X Mustela putorius</i>	Polecat Ferret		no	no						
	<i>Phoca vitulina</i>	Common Seal		yes	no			yes			
	<i>Halichoerus grypus</i>	Grey Seal		yes	no			yes			
	<i>Balaenoptera acutorostrata</i>	Minke Whale		yes	no		yes	yes		yes	
	<i>Orcinus orca</i>	Orca		yes	no		yes	yes		yes	
	<i>Megaptera novaeanlicae</i>	Humpback Whale		yes	no		yes	yes		yes	
	<i>Phocoena phocoena</i>	Harbour Porpoise		yes	no		yes	yes	yes	yes	
	<i>Delphinus delphis</i>	Common Dolphin		yes	no		yes	yes		yes	

	<i>Tursiops truncatus</i>	Bottle Nosed Dolphin		yes	no		yes	yes		yes	
	<i>Grampus griseus</i>	Risso's Dolphin		yes	no		yes	yes		yes	
Reptiles	<i>Lacerta vivipara</i>	Common lizard		yes	no			yes			
	<i>Anguis fragilis</i>	Slowworm		no	no						
	<i>Dermochelys coriacea</i>	Leatherback turtle		yes	no		yes	yes	yes		
Amphibians	<i>Rana temporaria</i>	Common frog		yes	no			yes			
	<i>Triturus vulgaris</i>	Smooth newt		no	no						
	<i>Triturus helveticus</i>	Palmate newt		no	no						
Sea fish	<i>Cetorhinus maximus</i>	Basking shark		yes	no	yes	yes	yes	yes		
	<i>Acanthocottus bubalis</i>	Sea scorpion		yes	no						
	<i>Acanthocottus lilljeborgi</i>	Norway bullhead		yes	no						
	<i>Alosa alosa</i>	Allis Shad		yes	no				yes		
	<i>Ammodytes tobianus</i>	Lesser sand eel	Gibbin	yes	no						
	<i>Anguilla anguilla</i>	Common eel		yes	no	yes			yes		
	<i>Arnoglossus lanterna</i>	scadfish		yes	no						
	<i>Aspitrigla cuculus</i>	Red gurnard	Captan Jiarg	yes	no						
	<i>Balistes capriscus</i>	Trigger fish		yes	no						
	<i>Belone belone</i>	Garfish		yes	no						
	<i>Blennius ocellaris</i>	Butterfly blenny	cadlag								
	<i>Boops boops</i>	Bogue		yes	no						
	<i>Callionymus lyra</i>	Common dragonet		yes	no						
	<i>Callionymus maculatus</i>	Spotted dragonet		yes	no						
	<i>Chelidonichthys lastoviza</i>	Streaked gurnard		yes	no						
	<i>Chelidonichthys lucernus</i>	Gurnard - tub		yes	no						
	<i>Chelon labrosus</i>	Grey thick-lipped mullet		yes	no						
	<i>Ciliata mustela</i>	Five-bearded rockling	<i>Gaidropsarus mediterraneus</i>	yes	no						
	<i>Clupea harengus</i>	Herring		yes	no		yes				
	<i>Conger conger</i>	European conger		yes	no						

	<i>Coris julis</i>	Rainbow wrasse		yes	no						
	<i>Crenilabrus melops</i>	Corkwing wrasse		yes	no						
	<i>Ctenolabrus rupestris</i>	Goldsinney wrasse		yes	no						
	<i>Cyclopterus lumpus</i>	Lumpfish	lumpsucker. Kiark - varrey	yes	no						
	<i>Dicentrus labrax</i>	European bass		yes	no						
	<i>Diplocogaster bimaculata</i>	2 spotted sucker		yes	no						
	<i>Entelurus aequoraeus</i>	Snake pipefish	Snaid Varrey	yes	no						
	<i>Eutrigla gurnardus</i>	Grey gurnard		yes	no						
	<i>Gadus morhua</i>	Atlantic cod	Boiddagh	yes	no		yes		yes		
	<i>Gaidropsarus vulgaris</i>	Three bearded rockling	Shore rockling	yes	no						
	<i>Galeorhinus galeus</i>	Tope		yes	no						
	<i>Gasterosteus aculeatus</i>	Three spined stickleback	jacksharp	yes	no						
	<i>Glyptocephalus cynoglossus</i>	Witch		yes	no						
	<i>Gobius fagei</i>			yes	no						
	<i>Gobius minutus</i>	Common goby		yes	no						
	<i>Gobius niger</i>	Black goby		yes	no						
	<i>Gobius paganellus</i>	Rock goby		yes	no						
	<i>Gobius pictus</i>	Painted goby		yes	no						
	<i>Gymnamodytes semisquamatus</i>	Smooth sand eel		yes	no						
	<i>Halichoeres semicinctus</i>	Rock Cook, wrasse	centrolabus exoletus	yes	no						
	<i>Hippoglossioides platessoides</i>	Long rough dab		yes	no						
	<i>Hyperoplus lanceolatus</i>	Greater sand eel	Gibbin moar	yes	no						
	<i>Labrus bergylta</i>	Ballan wrasse		yes	no						
	<i>Labrus mixtus</i>	Cuckoo wrasse		yes	no						
	<i>Lamna nasus</i>	Porbeagle shark		yes	no				yes		
	<i>Lepadogaster candolei</i>	connemara sucker		yes	no						
	<i>Lepadogaster lepadogaster</i>	Cornish sucker		yes	no						
	<i>Lepidorhombus whiffiagonis</i>	Megrim		yes	no						
	<i>Limanda limanda</i>	Dab		yes	no						

	<i>Liparis liparis</i>	Sea snail		yes	no						
	<i>Liparis montagui</i>	Montagu's sea snail		yes	no						
	<i>Lipophrys pholis</i>	Shanny									
	<i>Lophius piscatorius</i>	Angler fish, Monkfish	Guilley pern								
	<i>Melanogrammus aeglefinus</i>	Haddock	Attag	yes	no						
	<i>Merlangius merlangus</i>	Whiting	Finnag or Kelk	yes	no		yes				
	<i>Microchirus boscanion</i>	solennette		yes	no						
	<i>Microchirus variegatus</i>	Variegated sole		yes	no						
	<i>Microstomus kitt</i>	Lemon sole		yes	no						
	<i>Mola mola</i>	Sunfish		yes	no						
	<i>Molva molva</i>	Ling		yes	no						
	<i>Mullus surmuletus</i>	Red mullet		yes	no						
	<i>Mustelus asterias</i>	Starry smoothhound		yes	no						
	<i>Myoxocephalus scorpius</i>	Short-spined sea scorpion		yes	no						
	<i>Nerophis ophidion</i>	Straight nosed pipefish		yes	no						
	<i>Parablennius gattorugine</i>	Tompot blenny									
	<i>Petromyzon marinus</i>	Sea lamprey		yes	no				yes		
	<i>Pholis gunnellus</i>	Butterfish		yes	no						
	<i>Phyrnorrhombus norvegicus</i>	Norwegian topknot		yes	no						
	<i>Platichthys flesus</i>	Flounder		yes	no						
	<i>Pleuronectes platessa</i>	Plaice		yes	no		yes				
	<i>Pleuronectes platessa</i>	Plaice		yes	no						
	<i>Pollachius pollachius</i>	Pollack	Calig	yes	no						
	<i>Pollachius virens</i>	Saithe		yes	no		yes				
	<i>Pollachius virens</i>	Coalfish	Bloggan	yes	no						
	<i>Psetta maxima</i>	Turbot		yes	no						
	<i>Psettichthys melanostictus</i>	Sand Sole	Pegusa lascaris	yes	no						
	<i>Raja clavata</i>	Thornback ray		yes	no				yes		
	<i>Raja montagui</i>	Spotted ray		yes	no				yes		
	<i>Raja naevus</i>	Cuckoo Ray		yes	no						

	<i>Raniceps raninus</i>	Tadpole fish		yes	no						
	<i>Salmo salar</i>	salmon		yes	no				yes		
	<i>Scomber scombrus</i>	Mackerel	Braec varrey	yes	no		yes				
	<i>Scophthalmus rhombus</i>	Brill		yes	no						
	<i>Scyliorhinus canicula</i>	dogfish lesser spotted		yes	no						
	<i>Scyliorhinus stellaris</i>	Greater spotted dogfish	bull huss	yes	no						
	<i>Solea solea</i>	Sole		yes	no						
	<i>Sparus aurata</i>	Gilthead Bream		yes	no						
	<i>Spinachia spinachia</i>	fifteen spined stickleback	snaid varrey	yes	no						
	<i>Spondyliosoma cantharus</i>	Black seabream		yes	no						
	<i>Squalus acanthias</i>	Spurdog		yes	no				yes		
	<i>Tetraodontiformes</i>	Puffer fish	which?	yes	no						
	<i>Trachinus draco</i>	Greater weever		yes	no						
	<i>Trachinus vipera</i>	Lesser weever	Colgagh	yes	no						
	<i>Trachurus trachurus</i>	Horse mackerel (or scad)	Breac Frengagh	yes	no		yes				
	<i>Trisopterus luscus</i>	Bib or Pouting	Suddrey	yes	no						
	<i>Trisopterus minutus</i>	Poor cod		yes	no						
	<i>Zeugopterus punctatus</i>	Topknot		yes	no						
Freshwater fish		brown trout		yes	no						
	<i>Salmo salar</i>	salmon		yes	no						
		ten-spined stickleback		yes	no						
	<i>Lampetra planeri</i>	brook lamprey		yes	no						

Table 4: Marine Invertebrates

Group	Scientific Name	Common name	Local Name	Native	Endemic	Red List	Butterfly Conservation Category	UK BAP	Comments	OSPAR
	<i>Maja squinado</i>	Spider crab		yes	no					
	<i>Nucella lapillus</i>	Dog whelk		yes	no					yes
	<i>Velutina velutina</i>	By the wind sailer		yes	no					

Table 5: Marine plants

Group	Scientific Name	Common name	Local Name	Native	Endemic	Red List	UK BAP	protected	Comments
seaweeds	<i>Colpomenia peregrine</i>	Oyster thief		no	no				

Table 6: Lower plants

Group	Scientific Name	Common name	Local Name	Native	Endemic	Red List	rare plant book	UK BAP	protected	Comments	Bern
Lichens	<i>Cladonia coccifera</i>			yes	no	yes					

Table 7: Terrestrial Plants

Group	Scientific Name	Common name	Local Name	Native	Endemic	Red List	rare plant book	UK BAP	protected	Comments	Bern	OSPAR
Important plants												
	<i>Mentha pulegium</i>	pennyroyal		yes	no	endangered	rare	yes	yes			
	<i>Astragalus danicus</i>	purple milk vetch		yes	no	endangered			no			
	<i>Baldellia ranunculoides</i>	lesser water plantain		yes	no	near threatened			yes			
	<i>Carex diandra</i>	lesser tussock sedge		yes	no	near threatened			yes			
	<i>Hymenophyllum wilsonii</i>	Wilson's filmy fern		yes	no	near threatened			yes			
	<i>Mertensia maritima</i>	Oysterplant		yes	no	near threatened	scarce		yes			
	<i>Minuartia verna</i>	Spring sandwort		yes	no	near threatened	scarce		yes			
	<i>Orobanche rapum-genistae</i>	Greater broomrape		yes	no	near threatened	scarce		yes			
	<i>Peucedenum ostruthium</i>	Masterwort		no	no	near threatened						
	<i>Pilularia globulifera</i>	pillwort*					scarce		yes			
	<i>Platanthera chlorantha</i>	greater butterfly orchid		yes	no	near threatened			yes			
	<i>Radiola linoides</i>	allseed		yes	no	near threatened						
	<i>Spiranthes spiralis</i>	Autumn lady's tresses		yes	no	near threatened			yes			
	<i>Viola tricolor</i>	heartsease pansy		yes	no	near threatened						
	<i>Wahlenbergia hederacea</i>	ivy leaved bellflower		yes	no	near threatened			yes			
	<i>Zostera marina</i>	Eelgrass		yes	no		scarce		yes		yes	yes
	<i>Cuscuta epithymum</i>	dodder*		yes	no	vulnerable			yes			
	<i>Gentianella campestris</i>	Field gentian		yes	no	vulnerable			yes			
	<i>Glebionis segetum</i>	Corn marigold		yes	no	vulnerable						
	<i>Hieracium caledonicum</i>	Hawkweed		yes	no	vulnerable						
	<i>Oenanthe fistulosa</i>	Tubular water dropwort*		yes	no	vulnerable			yes			
	<i>Papaver argemone</i>	Prickly poppy		yes	no	vulnerable	not scarce					

	<i>Platanthera bifolia</i>	lesser butterfly orchid	yes	no	vulnerable			yes			
	<i>Salsola kali</i>	Prickly saltwort	yes	no	vulnerable						
	<i>Spergula arvensis</i>	Corn spurrey	yes	no	vulnerable						
	<i>Euphrasia arctica</i>	Eyebright	yes	no	data deficient						
	<i>E. confusa</i>	Eyebright	yes	no	data deficient						
	<i>E micrantha</i>	Eyebright	yes	no	data deficient						
	<i>E tetraquetra</i>	Eyebright	yes	no	data deficient						
	<i>Adiantum capillus-veneris</i>	maidenhair fern	yes	no		scarce		?			
	<i>Agrimonia eupatoria</i>	Agrimony	yes	no				yes			
	<i>Alisma lanceolatum</i>	Narrow-leaved water-plantain	yes	no				yes			
	<i>Atriplex littoralis</i>	Grass-leaved orache	yes	no				yes			
	<i>Atriplex portulacoides</i>	Sea-purslane	yes	no				yes			
	<i>Bidens cernua</i>	Nodding bur-marigold	yes	no				yes			
	<i>Blysmus rufus</i>	Saltmarsh flat-sedge	yes	no				yes			
	<i>Briza minor</i>	lesser quaking grasses*	no	no		introduced					
	<i>Calamagrostis epigejos</i>	Wood small-reed	yes	no				yes			
	<i>Carex curta</i>	White sedge	yes	no				yes			
	<i>Carex dioica</i>	Diocious sedge	yes	no				yes			
	<i>Carex pallescens</i>	Pale sedge	yes	no				yes			
	<i>Carex punctata</i>	Dotted sedge	yes	no		scarce					
	<i>Carlina vulgaris</i>	Carlina thistle	yes	no				yes			
	<i>Centaurea cyaneus</i>	Cornflower*	yes	no		extinct IOM	yes				
	<i>Coincya monensis</i>	Isle of Man cabbage	yes	no		scarce		yes			
	<i>Crepis paludosa</i>	Marsh hawk's-beard	yes	no				yes			
	<i>Cryptogramma crista</i>	Parsley fern	yes	no				yes			
	<i>Diphasiastrum alpinum</i>	Alpine clubmoss	yes	no				yes			
	<i>Dryopteris aemula</i>	Hay-scented buckler-fern	yes	no				yes			
	<i>Dryopteris carthusiana</i>	Narrow buckler-fern	yes	no				yes			
	<i>Echium vulgare</i>	Viper's bugloss	yes	no				yes			

	<i>Eleocharis quinqueflora</i>	Few-flowered spike rush		yes	no				yes			
	<i>Eleocharis uniglumis</i>	Slender spike-rush		yes	no				yes			
	<i>Eleogiton fluitans</i>	Floating club-rush		yes	no				yes			
	<i>Equisetum variegatum</i>	variegated horsetail*		yes	no		extinct IOM					
	<i>Erodium moschatum</i>	Musk storksbill*		yes	no		extinct? IOM					
	<i>Eurphobia portlandica</i>	Portland spurge		yes	no		scarce					
	<i>Festuca altissima</i>	Wood fescue		yes	no				yes			
	<i>Fumaria purpurea</i>	Purple ramping fumitory		yes	no		scarce	yes				
	<i>Galeopsis angustifolia</i>	red hemp-nettle*		yes	no		extinct IOM	yes				
	<i>Hypochaeris glabra</i>	smooth cats ear		yes	no		scarce		yes			
	<i>Juniperus communis</i>	Juniper		yes	no				yes			
	<i>Limonium binervosum agg.</i>	Rock sea lavenders		yes	no			yes	yes			
	<i>Limonium vulgare</i>	Common sea lavender		yes	no				yes			
	<i>Lycopodium clavatum</i>	Stagshorn club moss		yes	no				yes			
	<i>Melampyrum pratense</i>	Common cow-wheat		yes	no				yes			
	<i>Melica uniflora</i>	Wood melick		yes	no				yes			
	<i>Myriophyllum verticillatum</i>	Whorled water milfoil*		yes	no		extinct IOM					
	<i>Nuphar lutea</i>	Yellow waterlily		yes	no				yes			
	<i>Oenanthe lachenalii</i>	Parsley water-dropwort		yes	no				yes			
	<i>Phegopteris connectilis</i>	Beech fern		yes	no				yes			
	<i>Pimpinella saxifraga</i>	Burnet saxifrage		yes	no				yes			
	<i>Pinguicula lusitanica</i>	Pale butterwort		yes	no				yes			
	<i>Potamogeton obtusifolius</i>	Blunt-leaved pondweed		yes	no				yes			
	<i>Potamogeton pectinatus</i>	Fennel pondweed		yes	no				yes			
	<i>Pyrola minor</i>	Common wintergreen		yes	no				yes			
	<i>Ranunculus baudotii</i>	Brackish water crowfoot		yes	no				yes			
	<i>Ranunculus lingua</i>	Greater spearwort		yes	no				yes			
	<i>Ranunculus sceleratus</i>	Celery-leaved buttercup		yes	no				yes			
	<i>Rorippa islandica</i>	Iceland cress		yes	no	yes			yes			

	<i>Salix herbacea</i>	Least willow		yes	no				yes			
	<i>Scandix pecten-veneris</i>	shepherd's needle*		yes	no		extinct IOM	yes				
	<i>Selaginella selaginoides</i>	Lesser clubmoss		yes	no				yes			
	<i>Seriphidium maritimum</i>	Sea wormwood		yes	no				yes			
	<i>Silene gallica</i>	small-flowered catchfly*		yes	no		extinct IOM	yes				
	<i>Sparganium natans</i>	Floating burr-reed		yes	no				yes			
	<i>Stellaria palustris</i>	Marsh stitchwort		yes	no				yes			
	<i>Teesdalia nudicaulis</i>	Shepherd's cress		yes	no				yes			
	<i>Trichomanes speciosum</i>	Killarney filmy fern		yes	no	least concern		yes	yes		yes	
	<i>Trifolium arvense</i>	Hare's-foot clover		yes	no				yes			
	<i>Trifolium fragiferum</i>	Strawberry clover		yes	no				yes			
	<i>Trifolium occidentale</i>	Western clover		yes	no				yes			
	<i>Utricularia vulgaris</i>	Common bladderwort		yes	no				yes			
	<i>Vaccinium oxycoccus</i>	Cranberry		yes	no				yes			
	<i>Veronica catenata</i>	Pink water speedwell		yes	no				yes			
	<i>Veronica montana</i>	Wood speedwell		yes	no				yes			
	<i>Vicia lutea</i>	yellow vetch		yes	no		Scarce					
	<i>Vicia sylvatica</i>	Wood vetch		yes	no				yes			
	<i>Viola lactea</i>	Pale dog-violet*		yes	no		scarce					
	<i>Viola lutea</i>	Mountain pansy*		yes	no				yes			
	<i>Vulpia fasciculata</i>	dune fescue**		yes	no		scarce		yes			
	<i>Zannichellia palustris</i>	Horned pondweed		yes	no				yes			
FULL LIST												
Pteridopsida	<i>Adiantum capillus-veneris</i>	Maidenhair Fern			no							
	<i>Asplenium adiantum-nigrum</i>	Black Spleenwort			no							
	<i>Asplenium marinum</i>	Sea Spleenwort			no							
	<i>Asplenium ruta-muraria</i>	Wall-rue			no							
	<i>Asplenium trichomanes</i>	Maidenhair Spleenwort			no							
	<i>Asplenium trichomanes subsp. trichomanes</i>	Spleenwort			no							

	<i>Athyrium filix-femina</i>	Lady-fern			no							
	<i>Azolla filiculoides</i>	Water Fern		no	no							
	<i>Blechnum cordatum</i>	Chilean Hard-Fern		no	no							
	<i>Blechnum penna-marina</i>	Hard-Fern		no	no							
	<i>Blechnum spicant</i>	Hard-fern			no							
	<i>Botrychium lunaria</i>	Moonwort			no							
	<i>Ceterach officinarum</i>	Rustyback			no							
	<i>Cryptogramma crispera</i>	Parsley Fern			no							
	<i>Cystopteris fragilis</i>	Brittle Bladder-fern			no							
	<i>Dryopteris aemula</i>	Hay-scented Buckler-fern			no							
	<i>Dryopteris affinis</i>	Scaly Male Fern			no							
	<i>Dryopteris carthusiana</i>	Narrow Buckler-Fern			no							
	<i>Dryopteris dilatata</i>	Broad Buckler-Fern			no							
	<i>Dryopteris filix-mas</i>	Male-fern			no							
	<i>Dryopteris filix-mas agg.</i>	Male Fern			no							
	<i>Hymenophyllum wilsonii</i>	Wilson's Filmy-fern			no							
	<i>Matteuccia struthiopteris</i>	Ostrich Fern		no	no							
	<i>Ophioglossum vulgatum</i>	Adder's-Tongue			no							
	<i>Oreopteris limbosperma</i>	Lemon-Scented Fern			no							
	<i>Osmunda regalis</i>	Royal Fern			no							
	<i>Phegopteris connectilis</i>	Beech Fern			no							
	<i>Phyllitis scolopendrium</i>	Hart's-Tongue			no							
	<i>Polypodium cambricum</i>	Southern Polypody			no							
	<i>Polypodium interjectum</i>	Intermediate Polypody			no							
	<i>Polypodium vulgare</i>	Polypody			no							
	<i>Polypodium vulgare</i>	Southern Polypody			no							
	<i>Polypodium vulgare agg.</i>	Polypody			no							
	<i>Polystichum aculeatum</i>	Hard Shield-fern			no							
	<i>Polystichum lonchitis</i>	Holly-fern		no	no			yes				
	<i>Polystichum setiferum</i>	Soft Shield-Fern			no							
	<i>Pteridium aquilinum</i>	Bracken			no							

Appendix 8: Threats
Invasive species.

Table 8 List species considered to be non native and invasive although some may not yet have shown indications of being invasive on the Isle of Man. Coarse fish are moving between ponds with the help of man, while some species, Japanese knotweed and *Sargassum muticum*, are spreading of their own accord.

Table 8: Invasive species summary

	Plants	Invertebrates	Reptiles	Fish	Birds	Mammals	Amphibian
Isle of Man	35 (+3 marine)	5	0	5	2	5	0

Table 9: Invasive plants

plants	Scientific name	Common name(s)
1	<i>Acer pseudoplatanus</i>	sycamore
1	<i>Azolla filiculoides</i>	water fern
1	<i>Impatiens glandulifera</i>	Himalayan balsam
1	<i>Buddleja davidii</i>	buddleia
1	<i>Crassula helmsii</i>	New Zealand pigmyweed
1	<i>Rhododendron ponticum</i>	rhododendron
1	<i>Myriophyllum aquaticum</i>	parrot's feather milfoil
1	<i>Elodea canadensis</i>	Canadian pondweed
1	<i>Crocsmia x crocosmiiflora</i>	montbretia
1	<i>Fallopia japonica</i>	Japanese knotweed
1	<i>Petasites fragrans</i>	Winter heliotrope
1	<i>Cotoneaster spp. including</i>	Cotoneaster
1	<i>Smyrnium olusatrum</i>	Alexanders
1	<i>Prunus laurocerasus</i>	Cherry laurel
1	<i>Aegopodium podagraria</i>	Ground elder
1	<i>Impatiens glandulifera</i>	Himalayan balsam
1	<i>Carpobrotus edulis</i>	Hottentot fig
1	<i>Rosa rugosa</i>	Japanese rose
1	<i>Lemna minuta</i>	Least duckweed
1	<i>Soleirola solerolii</i>	Mind-your-own-business
1	<i>Epilobium brunnescens</i>	New-zealand willowherb
1	<i>Acaena novae-zelandia</i>	Pirri-pirri burr
1	<i>Acaena ovalifolia</i>	Pirri-pirri burr
1	<i>Rubus spectabilis</i>	Salmonberry
1	<i>Prunus cerasus</i>	Sour cherry

1	<i>Hyacinthoides hispanica</i>	Spanish bluebell
1	<i>Hyacinthoides x massartiana</i>	Spanish bluebell hybrids
1	<i>Allium triquetrum</i>	Three-cornered leek
1	<i>Alnus incana</i>	Grey alder
1	<i>Picea sitchensis</i>	Sitka spruce
1	<i>Pinus contorta</i>	Lodgepole pine
1	<i>Tolmiea menziesii</i>	Pickaback plant
1	<i>Oxalis articulata</i>	pink sorrel
1	<i>Oxalis incarnata</i>	pale pink sorrel
1	<i>Ulex europeus</i>	European gorse

Table 10: invasive birds

	Scientific name	Common name(s)
1	<i>Anser anser</i>	Feral goose/feral resident greylag
1	<i>Branta canadensis</i>	Canada goose

Table 11: invasive fish

	Scientific name	Common name(s)
1	<i>Cyprinus carpio</i>	common carp, mirror carp *
1	<i>Perca fluviatilis</i>	perch*
1	<i>Rutilus rutilus</i>	roach*
1	<i>Scardinius erythrophthalmus</i>	rudd*
1		rainbow trout

* species known to be invasive elsewhere (Global Invasive Species Database)

Table 12: Invasive terrestrial mammals

	Scientific name	Common name(s)
1	<i>Mus musculus</i>	house mouse
1	<i>Mustela putorius furo</i>	polecat ferret
1	<i>Rattus norvegicus</i>	brown rat
1	<i>Oryctolagus cuniculus</i>	rabbit
1	<i>Felis domesticus</i>	domestic cat

Table 13: Invasive marine plants

	Scientific name	Common name(s)
1	<i>Codium fragilis</i>	green sea fingers
1	<i>Sargassum muticum</i>	Sargassum or japweed
1	<i>Colpomenia peregrine</i>	Oyster thief

Table 14: invasive invertebrates

	Scientific name	Common name(s)
1	<i>Artioposthia triangulata</i>	New zealand flatworm
1	<i>Australoplana sanguinea alba</i>	Australian flatworm
1	<i>Otiorynchus sulcatus</i>	Vine weevil
1	<i>Gammarus pulex</i>	freshwater shrimp
	<i>Scolytus multistriatus</i>	elm bark beetle
	<i>Scolytus laevis</i>	elm bark beetle
1	<i>Crangonyx pseudogracilis</i>	North American freshwater shrimp

Climate change

Currently DEFA is contributing to work by the Marine Biological Association on rocky shore invertebrates which are marine indicators of climate change. Our own fishermen are seeing changes, with bass (*Dicentrus labrax*) being seen more commonly around our coasts all year and there are many more spider crabs (*Maja squinado*) and Poli's stellate barnacle (*Chthamalus stellatus*) is now occurring here.

We are seeing changes in our native butterfly fauna with two new species becoming resident, comma (*Polygonia c-album*) and speckled wood (*Pararge aegeria*). Red admiral (*Vanessa atalanta*) and the Hummingbird Hawkmoth (*Macroglossum stellatarum*) are now showing evidence of breeding and over-wintering on the Island.

The seawater temperature measurements which began in 1904 by the Port Erin Marine Laboratory and continued by the government laboratory have shown a 1 °C rise. Figures held by our meteorological office have also shown rising trends. There is no question we are seeing more frequent storm events.

No analysis has been done on which habitats could be affected by climate change, but sea level rise and increased storminess could threaten our saltmarshes and dune systems, as well as the soft cliffs in the north of the Island.

No analysis has been done on which species could be affected by climate change but the very few alpine plants such as dwarf willow (*Salix herbacea*) on Snaefell could be affected.

It is expected that some invasive species would benefit – such as Hottentot fig (*Carpobrotus edulis*). The spread of Dutch elm disease is greater in warm summers. Japweed, (*Sargassum muticum*) is now found in warm shallow tidal pools, and oysterthief, (*Colpomenia peregrine*) is well established in at least 1 site. Both may be affected by the rise in sea temperature.

See <http://www.gov.im/daff/enviro/climatechange.xml>

Examples of current and past efforts to mitigate threats.

There is ongoing herbicide control of Japanese knotweed along water courses and in other situations, but not a systematic programme starting at upstream sites and working down. The introduction of the psyllid bug, a biological control agent, has been consulted on and this may be used, depending on the results of the UK trials.

Shortly after the discovery of *Sargassum* manual weed removal was tried at one site. This proved ineffective. This seaweed is now widely colonised in the south of the Island.

Incentives for control of invasive weeds were included in the pilot Agri-environment Scheme. However they have not been taken up. Invasive weed control is a condition of the Countryside Care Scheme. The scheme requires, in the Undergrazing section, participants to...avoid

infestation by species such as Gorse, Giant Hogweed, Japanese Knotweed, Himalayan Balsam and injurious weeds. Injurious weeds include all weeds listed under Weeds Act of 1957.

Appendix 9: Projects

Project	Funded by	Start date	End date	outcomes	Lessons
Gravel pits restoration	Aggregates company, Manx Birdlife and DAFF/DEFA	2002	On-going	Natural wetland habitats being established	Natural regeneration takes place but feral goose numbers need managing (off-site).
Basking shark project; sightings, tagging and DNA	DAFF/DEFA and others	2007	On going	Tags recovered from NW Atlantic, sightings mapped and analysed	Manx basking sharks can move across Atlantic.
Wildflowers of Mann	DEFA, DOI, DCCL	1999	On-going	Establishment of native wildflower nursery, demonstration gardens and seed sales	It is difficult to create large areas of habitat unless funding or incentives in place.
Marine Nature Reserve	DEFA	2008	2011	One site will be selected and designated	Involvement of fishermen is essential
Bat survey road transects	Manx Bat Group, some DEFA funding for equipment	2007?	?		
Marine Spatial planning	DEFA, DOI, DED	2010	2013	Consensus on marine plan for sustainable sea use, supporting legislation and policies.	
Sustainability index for birds, (10 th island each year)	DEFA	2006	2015	Trends in 35+ common breeding birds.	
Isle of Man Flora atlas	Various, largely voluntary	2009	2014	Updated plant distributions by tetrads.	

Appendix 10: Bibliography

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Sharpe, C (2007), Manx Bird Atlas, Liverpool University Press.

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Appendix 11: Links

<http://www.gov.im/isleofman/>

<http://www.manxwt.org.uk/>

<http://www.manxbirdatlas.org.uk/index.shtml>

<http://www.mwdw.net/Home2.aspx>

<http://www.manxbaskingsharkwatch.com/>

<http://www.gov.im/daff/enviro/climatechange.xml>