



UK priority species pages – Version 2

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SPECIES PAGES FOR 2007 UK BAP PRIORITY SPECIES

(see endnotes for an explanation of the various components of this compilation).

Colletes floralis Eversmann, 1852**The Northern Colletes****1 General information**

| | |
|---------------------|---------------------------|
| Level 1 | Terrestrial invertebrates |
| Level 2 | bee |
| On 1997 UK BAP list | Species Action Plan |

2 UK BAP criteriaⁱ

| | | | |
|-------------------------|--|-----------------------------|------------------------------|
| 1. International threat | 2. International responsibility (2a) + moderate decline in UK (2b) | 3. Marked decline in the UK | 4. Other important factor(s) |
| False | False | False | True |

3 Evidence for Criteriaⁱⁱ

| | |
|--------------|---|
| Criterion 1 | |
| Criterion 2a | |
| Criterion 2b | |
| Criterion 3 | |
| Criterion 4 | Substantial threat to a food plant or to a highly specialised habitat, if it is impossible to predict the resulting rate of decline in the species, For a species on the current Priority List, factors that caused the original decline are still operating or the species' population has not recovered to a point where it is likely to be viable in the long term |

4 Distribution by Country

| | | | | |
|---------|----------|-------|------------------|----------------------|
| England | Scotland | Wales | Northern Ireland | International Waters |
| Y | Y | N | Y | |

5 Distribution Information

| | |
|--|-------------------------|
| Distribution data source | BAP 2005 reporting |
| Distribution data notes | |
| number of sites (where less than or equal to 10) | 9 |
| Units used for number | Site(s) / population(s) |

| | |
|----------|--|
| of sites | |
|----------|--|

6 Actions identified by expertsⁱⁱⁱ

| Action number | Action text | Reporting category |
|---------------|---|------------------------------------|
| 1 | One of two species associated with coastal limestone/machair habitats. Require appropriate management to maintain appropriate early successional habitat. <i>Colletes floralis</i> , <i>Osmia parietina</i> | Species-specific management action |
| 2 | Appropriate habitat management needed to maintain flower rich, open sward. Threats include: Loss of herb-rich dune grasslands due to agricultural intensification and land use changes including abandonment and/or alteration of traditional grazing practices. Habitat fragmentation resulting from above. Climate change – wetter, cooler weather during the brief flight period could affect the abundance and distribution of the species in UK. Global Warming could affect suitability of montane habitat within Palearctic range. | Species-specific management action |
| 3 | Survey is needed to find any new sites, monitoring is needed to understand the status of the species at existing sites. This data is needed to allow reporting against success criteria. | Species-specific monitoring/survey |

8 Additional information from specialists^{iv}

| Attribute | Value |
|-----------------------------|--|
| NBN current scientific name | <i>Colletes floralis</i> |
| NBN common name | The Northern Colletes |
| classification level 1 | Terrestrial invertebrates |
| classification level 2 | bee |
| Crit 1 Global threat | Restricted to Europe and Asia. Local throughout its range. Very localised in montaine habitats in Europe and Asia, sometimes locally abundant in coastal habitats of NW Europe. |
| Crit 1 European threat | Habitat specialist, montaine dune systems, Northern Atlantic dune systems |
| Crit 1 Supporting info | Scattering of records from higher ranges of the European Alps, the Pyrenees, the Caucasus and the Urals, also from the mountain ranges of Central Asia (Edwards 2001). A few recent records from Baltic coast (from where species first described) (S. Roberts, BWARS) |

| | |
|--|--|
| Crit 2 % of global pop | Up to 50% |
| Crit 2 % of European popn | Up to 50% |
| Crit 2 % of int population Supporting info | UK population believed to represent as much as 50% of its entire [known] current range (Edwards 2001), although still widespread in Eire |
| Crit 2 declines supporting info | Lost from 5 areas during 20th Century. Current range has only recently been investigated in detail. Lost from Ayrshire coast (pre 1970), Wester Ross (>1970), Colonsay (>1970), Galloway coast (>1982), and possibly Lewis (>1952), Rum (>1952) Very small numbers in Bushfoot/Whitepark population of NI. |
| Crit 3 supporting info | Although major decline probably occurred no more than 25 years, this species still qualifies. |
| Crit 4 other important factors | |
| Sources | Edwards, R., ed. 2001. Provisional atlas of the aculeate Hymenoptera of Britain and Ireland. Part 3, pg 102 Bees, Wasps and Ants Recording Society. Edwards, M. 2001. Survey of three Biodiversity Action Plan bee species (Colletes floralis, Osmia inermis, O. uncinata) in Scotland, 2001. Unpublished report to SNH and RSPB. Hunter, J. 2004. Surveys of Northern Colletes and Great Yellow Bumblebee in Dumfries & Galloway and Lewis & Harris, July 2004. Unpublished report to the RSPB, Sandy. Hunter, J. 2003a. Surveys of the Northern Colletes mining bee Colletes floralis in Northern Ireland, July - August 2003. Unpublished report to the RSPB, Sandy. SNH 2000. Invertebrate species dossier: Colletes floralis Eversmann, a mining bee. Scottish Natural Heritage information document. |
| Quality | Existing information reliable. |

10 Species designations^v

| Abbreviation | Reporting Category | Designation | Designation description | Year | Source | Comment |
|----------------------------|---------------------------------------|-------------------------------------|---|------|---|--|
| England NERC S.41 | Biodiversity Lists - England | England NERC S.41 | Species “of principal importance for the purpose of conserving biodiversity” covered under section 41 (England) of the NERC Act (2006) and therefore need to be taken into consideration by a public body when performing any of its functions with a view to conserving biodiversity. | 2008 | Natural Environment and Rural Communities Act 2006 - Species of Principal Importance in England (section 41) and Wales (section 42) | Geographic constraint=Listing is for England only |
| NI_Priority | Biodiversity Lists - Northern Ireland | Priority Species (Northern Ireland) | The Northern Ireland Priority List of threatened species requiring conservation action in Northern Ireland. Criteria have been developed to ensure that Priority Species have been chosen using a scientific basis (See http://www.habitas.org.uk/priority/criteria.html). The list is designed to assist those involved in the conservation of biodiversity by guiding decisions on where to target action and invest resources. | 2010 | Northern Ireland Priority Species List, March 2010 | |
| Scottish Biodiversity List | Biodiversity Lists - Scotland | Scottish Biodiversity List | The Scottish Biodiversity List is a list of flora, fauna and habitats considered by the Scottish Ministers to be of principal importance for biodiversity conservation. The development of the list has been a collaborative effort involving a great many stakeholders overseen by scientists from the Scottish Biodiversity Forum. | 2005 | Scottish Biodiversity List of species of principal importance for | Geographic constraint=Listing is for Scotland only |

| | | | | | | |
|--------------------|---|------------------|--|------|--|--|
| | | | <p>Completion of the list is the first time such a stocktake has been done in Scotland.</p> <p>The Scottish Biodiversity List is a tool for public bodies and others doing their Biodiversity Duty. The publication of the Scottish Biodiversity List satisfies the requirements of Section 2(4) of The Nature Conservation (Scotland) Act 2004.</p> | | biodiversity conservation | |
| BAP:2007 | Biodiversity Action Plan UK list of priority species | Priority Species | The UK List of Priority Species and Habitats contains 1150 species and 65 habitats that have been listed as priorities for conservation action under the UK Biodiversity Action Plan (UK BAP). | 2007 | UK list of Priority Habitats and Species | status on former BAP list: Species Action Plan |
| RedList_GB_Pre94:R | Red Listing based on pre 1994 IUCN guidelines | Rare | Taxa with small populations that are not at present Endangered or Vulnerable, but are at risk. (In GB, this was interpreted as species which exist in fifteen or fewer 10km squares). Superseded by new IUCN categories in 1994, but still applicable to lists that have not been reviewed since 1994. | 1991 | A review of the scarce and threatened bees, wasps and ants of Great Britain (Falk, S.J.) | pre 1994 IUCN criteria |

UK BAP 2008 reporting^{vi}

(nb this only applies to species on the original 1997 UK BAP priority species list)

11 General status

| Country | Attribute | Value |
|------------------|-------------------------------|---|
| England | | |
| | Date | 2007 |
| | Status unknown | No |
| | Value | 1 |
| | Units | Site(s) / population(s) |
| | Accuracy | Sample or full survey |
| | Adequate data | Yes |
| | Data on NBN | Some |
| | Refer to LBAP data | No |
| | Data source / comments | Neil Robinson, "Colletes floralis in Cumbria in 2007" - a report under contract to Hymettus 1 small localised population (Duddon Estuary) |
| | Edits made by reporting group | |
| Northern Ireland | | |
| | Date | 2008 |
| | Status unknown | No |
| | Value | 2 |
| | Units | Site(s) / population(s) |
| | Accuracy | Partial survey |
| | Adequate data | No but likely by 2011 |
| | Data on NBN | Yes |
| | Refer to LBAP data | No |

| | | |
|----------|-------------------------------|--|
| | Data source / comments | Janet Hunter (2003) Surveys of the Northern Colletes mining bee in Northern Ireland in July-August 2003 - a report under contract to RSPB, also e-mails from fieldworkers in 2004 and 2008. Bees present in large scattered population (Ballymaclary/Umbra/Portstewart) in 2003-2008 and in small localised population (White Park/ Bushfoot) in 2003 and burrows seen (but no bees) in 2008 |
| | Edits made by reporting group | |
| Scotland | | |
| | Date | 2008 |
| | Status unknown | No |
| | Value | 6 |
| | Units | Site(s) / population(s) |
| | Accuracy | Partial survey |
| | Adequate data | No but likely by 2011 |
| | Data on NBN | Some |
| | Refer to LBAP data | No |
| | Data source / comments | Janet Hunter, "Surveys of the Northern Colletes on Islay in 2006" and "Surveys of Northern Colletes on Islay, Mull and Kintyre" in 2008 - reports under contract to RSPB, verbal reports from RSPB and Hymettus workers 3 large scattered populations (Outer Hebrides Barra-Berneray, Tiree/Coll and Islay) and 3 small localised populations (Colonsay/Oronsay, Machrihanish and Ayr) |
| | Edits made by reporting group | |
| UK | | |
| | Date | 2008 |
| | Status unknown | No |
| | Value | 9 |
| | Units | Site(s) / population(s) |
| | Accuracy | Partial survey |
| | Adequate data | Yes |
| | Data on NBN | Some |
| | Refer to LBAP | No |

| | | |
|--|-------------------------------|--|
| | data | |
| | Data source / comments | Various surveys conducted by RSPB, Hymettus and others |
| | Edits made by reporting group | |

7 Threats

| Threat category 1 | Threat category 2 | England | NI | Scotland | Wales | Edits made by reporting group |
|---|---------------------------------|---------|-----|----------|-------|-------------------------------|
| | | | | | | |
| Habitat loss / degradation - agriculture | Undergrazing | No | Yes | No | No | |
| Habitat loss / degradation - infrastructure development | Stabilisation of sand dunes | No | Yes | Yes | No | |
| Habitat loss / degradation - infrastructure development | Tourist / recreation facilities | No | Yes | Yes | No | |
| Intrinsic Factors | Limited dispersal | Yes | Yes | Yes | No | |

| | | | | | | |
|-------------------|-------------------------------|-----|-----|-----|----|--|
| Intrinsic Factors | Low population density / size | Yes | Yes | Yes | No | |
| Intrinsic Factors | Natural fluctuations | Yes | Yes | Yes | No | |

15 Constraints

| Rank | Constraint category 1 | Constraint category 2 | Constraint summary | England | NI | Scotland | Wales | Solution category | Solution summary |
|------|----------------------------------|-----------------------------|---|---------|-----|----------|-------|--|---|
| 2 | Funding and incentives | General lack of resources | Further survey and monitoring is required in NI | Yes | Yes | No | No | Funding, resources and incentive schemes | Suitable sources of funding to be found |
| 2 | Research, survey and information | Monitoring surveys required | There is insufficient information on populations in NI to monitor trends. | No | Yes | No | No | Survey/monitoring | Establish monitoring scheme, ideally in line with protocols developed for monitoring Scottish populations |

8 State of Knowledge

| State of knowledge category | Notes | Edits made by reporting group |
|--|---|-------------------------------|
| Knowledge insufficient but research currently underway | More detailed quantitative survey data are planned for N. Ireland and Colonsay/Oronsay in 2009 as well as annual checks on key sites on | |

| | | |
|--|--|--|
| | Tiree, Coll, Islay and the Outer Hebrides. Work to establish a volunteer monitoring network in Scotland is underway. | |
|--|--|--|

ENDNOTES

ⁱ An explanation of these criteria is included at Annex 3 of UK Biodiversity Action Plan: Report on the Species and Habitat Review. BRIG (ed. Ant Maddock) 2007. This review was organised in two stages. Stage 1 looked at the scientific evidence for selecting the UK List of Priority Species and Habitats while stage 2 considered the conservation action needed for these species and habitats and provided signposts to the means of implementing action.

ⁱⁱ The information on evidence and the species distribution is as presented on the UK BAP website. Users can download a spreadsheet of the Stage 1 species evidence from the home page of the UK BAP website.

ⁱⁱⁱ Actions were assigned to each and every priority species by expert groups convened at Stage 2 of the Review process. These were subsequently categorised into “signpost categories”. This information is as shown on the UK BAP website See the link for categorisation (signposting) of UK priority species.

^{iv} This information has been derived from Stage 1 of the priority species review, and is presented in the “marine”, “terrestrial invertebrates” and “other terrestrial species” sheets within the spreadsheet of the Stage 1 species evidence. The information presented here varies according to the taxonomic group. Please note that some of these data have been written for other Expert Group members and may not be of great value to a wider audience.

^v Information on conservation designations has been extracted from JNCC’s collation of information on species designations. The designations shown in version 2 of these pages are as at December 2010.

^{vi} As part of the 2008 UK BAP reporting round lead partners of national plans were asked to answer a number of specific questions. The data will be analysed and used for the UK and country level reports. All of the responses provided through BARS as part of the 2008 reporting exercise are available to download. Note that in the December 2010 version of these pages (version 2) includes corrections to previously truncated text fields.