



## **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).

***Cypripedium calceolus* L.**

**Lady's-slipper**

**1 General information**

Level 1	Vascular plants
Level 2	vascular plant
On 1997 UK BAP list	Species Action Plan

**2 UK BAP criteria<sup>i</sup>**

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 Criteria<sup>ii</sup>**

Criterion 1	
Criterion 2a	
Criterion 2b	
Criterion 3	
Criterion 4	threat:CR criteria: DExisting BAP species Species populations have 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	N	N	N	

**5 Distribution Information**

Distribution data source	BAP 2005 reporting
Distribution data notes	Now present at 12 localities, the native site, as an old introduction at Silverdale in Lancashire and as experimental introduced or restored populations elsewhere throughout the former range. These populations are not yet considered self-sustaining.
number of sites (where less than or equal to 10)	1
Units used for number	Site(s) / population(s)

of sites	
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## 6 Actions identified by experts<sup>iii</sup>

Action number	Action text	Reporting category
1	Continue research into key factors determining sustainability in this species (genetics, pollinator ecology, mycological interactions and other autecological factors).	Species-specific research
2	Continue with the restoration of populations throughout the range.	Species-specific management action
3	Surveillance programme: monitor all known populations, closely focussing on indications that populations are self-sustaining.	Monitoring/survey
4	Continue to protect the existing populations from theft/damage and to educate and inform the public in this regard.	Species-specific management action
5	Continue to maintain the wild site and all restoration sites in favourable condition.	Species-specific prescriptive habitat action

## 8 Additional information from specialists<sup>iv</sup>

Attribute	Value
NBN current scientific name	<i>Cypripedium calceolus</i>
NBN common name	Lady's-slipper
classification level 1	Vascular plants
classification level 2	vascular plant
Factor	threat:CR criteria: DExisting BAP species Species populations have not recovered to a point where it is likely to be viable in the long-term.
Crit4 satisfied (Yes/ No/ Unknown)	yes
1st source	The Vascular Plant Red Data List for Great Britain
2nd source	New Atlas of the British and Irish Flora

## 9 Additional information for species listed under the Habitats Directive<sup>v</sup>

Attribute	Value
Conclusions - overall assessment	(U2+) - Bad but improving
Conclusions - range	(U2+) - Bad but improving
Conclusions - population	(U2+) - Bad but improving
Conclusions - habitat	(XX) - Unknown
Conclusions - future prospects	(U1+) - Inadequate but improving
Published sources and/or websites	<p>KULL, T. 1999. &lt;I&gt;Cypripedium calceolus&lt;/I&gt; L.: Biological Flora of the British Isles no. 208. Journal of Ecology 875, 913-924</p> <p>RAMSEY, M. M. &amp; STEWART, J. 1998. Re-establishment of the lady's slipper orchid &lt;I&gt;Cypripedium calceolus&lt;/I&gt; L.. in Britain. Botanical Journal of Linnean Society, 126, 173-181</p> <p>PRESTON, C. D., PEARMAN, D. A. &amp; DINES, T. D. 2002. New Atlas of the British &amp; Irish Flora. Oxford University Press</p> <p>WIGGINGTON, M. J. 1999. British Red Data Books: 1 Vascular Plants (3rd ed.) Joint Nature Conservation Committee</p> <p>Map Data Sources</p> <p>Vascular Plants Database, Botanical Society of the British Isles, via the National Biodiversity Network (NBN) Gateway; Ian Taylor, Natural England, pers. comm.</p>
surface area of range in km2	100
surface area of range in km2 EU	100
Date of range determination	2006
Quality of data concerning range	Good
Range trend	Stable (=)
Range trend magnitude (%)	Not applicable
Range trend period	1994-2006
Range trend reasons 0 - Unknown	False
Range trend reasons 1 - Improved knowledge/more accurate data	False
Range trend reasons 2 - Climate change	False
Range trend reasons 3 - Direct human	True

influence	
Range trend reasons 4 - Indirect anthropo or zoogenic influence	False
Range trend reasons 5 - Natural processes	False
Range trend reasons 6 - Other (specify)	False
Population_min	1
Population_min EU	1
Population_max	1
Population_max EU	1
Population units	Individuals
Population date	2006
Population method	3 - From comprehensive inventory
Population quality	Good
Population trend	Stable (=)
Population magnitude (%)	Not applicable
Population period	1994-2006
Pop trend reasons 0 - Unknown	False
Pop trend reasons 1 - Improved knowledge/more accurate data	False
Pop trend reasons 2 - Climate change	False
Pop trend reasons 3 - Direct human influence	True
Pop trend reasons 4 - Indirect anthropo or zoogenic influence	False
Pop trend reasons 5 - Natural processes	False
Pop trend reasons 6 - Other (specify)	False
Surface area of the habitat in km2	Unknown
Date of area estimation	05/2007
Quality of data on habitat area	Poor
Habitat trend	Unknown (X)
Habitat trend period	1994-2006
Hab trend reasons 0 Unknown	False
Hab trend reasons 1 Improved knowledge	False
Hab trend reasons 2 Climate change	False
Hab trend reasons 3 Direct human influence	False
Hab trend reasons 4 Indirect anthropo or zoogenic influence	False
Hab trend reasons 5 Natural processes	False
Hab trend reasons 6 Other (specify)	False
Reasons for reported trend in Hab specify	Not applicable
Justification of % thresholds for trends	Not applicable

Future prospects	Poor prospects_Species likely to struggle unless conditions change
Favourable reference range	3500
Favourable reference range EU	3500
Favourable reference population	2000
Habitat name	This species requires very lightly grazed wood-pasture or woodland which has edaphically or topographically maintained clearings (I. Taylor, Cypripedium Committee). Micro-habitat conditions, principally soil structure and fungal associations may be limiting current establishment of re-introduced plants (Preston et al. 2002).
Other relevent information	See audit trail documents for further information.

## 10 Species designations<sup>vi</sup>

Abbreviation	Reporting Category	Designation	Designation description	Year	Source	Comment
HabReg:Sch4	The Conservation of Habitats and Species Regulations 2010	Schedule 4	Schedule 4: European protected species of plants.	1994	The Conservation of Habitats and Species Regulations 2010	
Bern:A1	Bern Convention	Appendix 1	Special protection (‘appropriate and necessary legislative and administrative measures’) for the plant taxa listed, including prohibition of deliberate picking, collecting, cutting, uprooting and, as appropriate, possession or sale.	1979	Bern Convention	
HabDir:A2*	Habitats Directive	Annex 2 - non-priority species	Animal and plant species of Community interest (i.e. endangered, vulnerable, rare or endemic in the European Community) whose conservation requires the designation of special areas of conservation. Note that the contents of this annex have been updated in April 2003 following the Treaty of Accession.	1992	Habitats Directive	
HabDir:A4	Habitats Directive	Annex 4	Animal and plant species of Community interest (i.e. endangered, vulnerable, rare or	1992	Habitats Directive	

			endemic in the European Community) in need of strict protection. They are protected from killing, disturbance or the destruction of them or their habitat. Note that the contents of this annex have been updated in April 2003 following the Treaty of Accession.			
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
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
ECCITES:B	EC Cites	Annex B	All other CITES Appendix II species not listed in Annex A.	1997	CITES UK Species only	

			Some CITES Appendix III species. Some non-CITES species.			
RedList_GB_post2001:CR	Red listing based on 2001 IUCN guidelines	Critically Endangered	A taxon is Critically Endangered when it is facing an extremely high risk of extinction in the wild in the immediate future, as defined by any of the criteria A to E.	2005	The Vascular Plant Red Data List for Great Britain - 2006 Cheffings, C. and Farrell, L. (Editors) and A tool for assessing the current conservation status of vascular plants on SSSIs in England: May 2006, ENRR 690 (Leach & Rusbridge)	
Status:NR	Rare and scarce species (not based on IUCN criteria)	Nationally rare	Occurring in 15 or fewer hectads in Great Britain. Excludes rare species qualifying under the main IUCN criteria.	2007	The Vascular Plant Red Data List for Great Britain - 2006 Cheffings, C. and Farrell, L. (Editors) and A tool for assessing the current conservation	

					status of vascular plants on SSSIs in England: May 2006, ENRR 690 (Leach & Rusbridge)	
WACA:Sch8	Wildlife and Countryside Act 1981	Schedule 8	Plants which are protected from: intentional picking, uprooting or destruction (Section 13 1a); selling, offering for sale, possessing or transporting for the purpose of sale (live or dead, part or derivative) (Section 13 2a); advertising (any of these) for buying or selling (Section 13 2b).	1981	Wildlife and Countryside Act Schedules 1,5 and 8 (protected birds, animals and plants)	Geographic constraint=Designation does not apply in Scotland since 15/02/2007. Note on status=Designation is in respect of section 13(2) only since 21/08/2007.

## UK BAP 2008 reporting<sup>vii</sup>

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

### 11 General status

Country	Attribute	Value
England		
	Date	2008
	Status unknown	No
	Value	1
	Units	Site(s) / population(s)
	Accuracy	Sample or full survey
	Adequate data	Yes
	Data on NBN	Unknown
	Refer to LBAP data	No
	Data source / comments	As for UK
	Edits made by reporting group	
UK		
	Date	2008
	Status unknown	No
	Value	1
	Units	Site(s) / population(s)
	Accuracy	Sample or full survey
	Adequate data	Yes
	Data on NBN	Unknown
	Refer to LBAP data	No

	Data source / comments	Although their is now an extensive re-introduction programme in place it is felt too early to incorporate data from these sites into the report.
	Edits made by reporting group	

## 7 Trends

Country	Attribute	Value
UK		
	Date	2008
	Status unknown	No
	Trend	Stable
	Accuracy	Sample or full survey
	Adequate data	Yes
	Data on NBN	Unknown
	Refer to LBAP data	No
	Data source / comments	Some re-introduced individuals appear to be establishing but longer periods are required to ensure sustainability of these re-introductions.
	Edits made by reporting group	
England		
	Date	2008
	Status unknown	No
	Trend	Stable
	Accuracy	Sample or full survey
	Adequate data	Yes
	Data on NBN	Unknown
	Refer to LBAP data	No
	Data source / comments	As for UK

	Edits made by reporting group	
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### 8 Successes

Success text	Success category 1	Success category 2	England	NI	Scotland	Wales	Edits by reporting group
Further improvements in flowering of re-introduced individuals at some sites.	Species and habitat management	Other	Yes	No	No	No	

### 9 Threats

Threat category 1	Threat category 2	England	NI	Scotland	Wales	Edits made by reporting group
Human disturbance	Interference / displacement	Yes	No	No	No	

## 15 Constraints

Rank	Constraint category 1	Constraint category 2	Constraint summary	England	NI	Scotland	Wales	Solution category	Solution summary
2	Research, survey and information	Ex-situ / reintroduction techniques poorly developed	Although site selection has apparently improved, our continuing lack of knowledge of the mycorrhizal ecology is hampering transplant establishment	Yes	No	No	No	Research	Better collation of existing research findings and additional mycorrhizal research

## 10 State of Knowledge

State of knowledge category	Notes	Edits made by reporting group
Knowledge insufficient but research currently underway	Critical research needed on survivorship for translocations and, in particular, on fungal interactions.	

## ENDNOTES

<sup>i</sup> 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.

<sup>ii</sup> 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.

<sup>iii</sup> 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](#).

<sup>iv</sup> 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.

<sup>v</sup> This is only applicable to Species listed under the Annexes 2 4 and 5 of the Habitats Directive. The information presented here was collated by the UK Government in fulfilment of the requirement under Article 17 of the Habitats Directive. For further information see the [2<sup>nd</sup> UK Report](#) on the implementation of the Habitats Directive.

<sup>vi</sup> 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.

<sup>vii</sup> 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.