

# *Lycopodiella inundata* (Marsh Clubmoss)

Full report outputted on the 31/07/2003 10:54:04

## 1. Status of the habitat / species

Please give your most accurate assessment of the status of your species or habitat for the UK and for each country. Leave the row blank where the species or habitat does not occur in that country.

	Amount:	Units:	Year:	Accuracy:	Reference for data:
UK	171	Sites/ Populations	2002	Partial or sample survey	
E	61	Sites/ Populations	2002	Partial or sample survey	Plantlife Report 169 ISBN 1 872613 37 3
NI	1	Occupied 10 km sq.	2002	Partial or sample survey	Preston CD, Pearman DA & Dines TD (2002) New Atlas of the British Flora
S	104	Sites/ Populations	2002	Partial or sample survey	SNH species database 2002
W	5	Sites/ Populations	2002	Partial or sample survey	Trevor Dines (Plantlife Wales Officer)

Information originally entered by Amanda Miller on Monday, October 07, 2002

Information last changed by Amanda Miller on Friday, December 20, 2002

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## 2. Trend in Biological Status

Please give your best estimate of the current trend for your species or habitat for the UK, and each appropriate country, using the following categories. Please give an estimate unless there is absolutely no information on which to assess status.

	Trend:	Accuracy:	Reference for data:
<b>UK</b>	Declining (continuing/accelerating) ▼	Partial or sample survey ▼	
<b>E</b>	Declining (continuing/accelerating) ▼	Partial or sample survey ▼	Plantlife Report 169 ISBN 1 872613 37 3
<b>NI</b>	Not know n ▼	Partial or sample survey ▼	Richard Weyl
<b>S</b>	Stable ▼	Partial or sample survey ▼	Lusby (1998) unpublished report
<b>W</b>	Stable ▼	Partial or sample survey ▼	Trevor Dines (Plantlife Wales Officer)

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## 3. Status of knowledge

To what extent is our scientific knowledge of the habitat / species (e.g research information, autecological knowledge, knowledge for effective re-introduction or habitat restoration/re-creation) sufficient to deliver the plan targets?

Please give an assessment for the UK overall but if there is significant difference in knowledge between different countries this should be noted.

<b>Status of knowledge:</b>	Know ledge sufficient to make some impact, but more research needed. ▼
<b>Notes:</b>	Probably under-recorded in Scotland and possibly not endangered in Scotland (Lusby 1998). ▲ ▼ ◀ ▶

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## 4. Progress on targets

Each of the revised targets from the 2001 Targets Review is listed below.

For each one please give a qualitative assessment of progress for the UK and each country. You can also enter quantitative information on progress by entering data in each of the target boxes and entering the current amount in the amount box. For more information see Help.

<b>T1: Maintain viable populations at all extant sites.</b>	
<b>Target start date:</b>	1999
<b>Target end date:</b>	2005
<b>Target units:</b>	Sites/ Populations ▼

	Progress	Target	Current	Accuracy	Monitoring
UK	Some progress (on schedule) ▼		139	Partial or sample survey ▼	Under active development ▼
E	Some progress (on schedule) ▼		30	Partial or sample survey ▼	Under active development ▼
NI	Some progress (on schedule) ▼		1	Partial or sample survey ▼	
S	Target achieved ▼		104	Partial or sample survey ▼	Under active development ▼
W	Some progress (on schedule) ▼		5	Partial or sample survey ▼	Under active development ▼

**T2: Achieve an increase of 20% in population size of this species at 5 sites by 2008**

Target start date:

Target end date:

Target units:

	Progress	Target	Current	Accuracy	Monitoring
UK	Some progress (behind schedule) ▼	5	2	Partial or sample survey ▼	Yes ▼

<b>E</b>	Some progress (on schedule) ▼	3	2	Partial or sample survey ▼	Yes ▼
<b>NI</b>	No progress ▼			Informed guess ▼	
<b>S</b>	Unknown ▼	1		Partial or sample survey ▼	Under consideration ▼
<b>W</b>	No progress ▼	1	0	Partial or sample survey ▼	No ▼

**T3: Establish three additional populations by 2003 within the historic range**

Target start date:

Target end date:

Target units:

	Progress	Target	Current	Accuracy	Monitoring
<b>UK</b>	Some progress (behind schedule) ▼	3	1	Partial or sample survey ▼	Yes ▼
<b>E</b>	Some progress (behind schedule) ▼	2	1	Partial or sample survey ▼	Yes ▼
<b>NI</b>	No progress ▼			Informed guess ▼	

<b>S</b>	Unknown	1		Partial or sample survey	Under consideration
<b>W</b>					

**T4: Assess the feasibility of supporting the conservation of this species through an ex-situ programme.**

<b>Target start date:</b>	1999
<b>Target end date:</b>	2005
<b>Target units:</b>	Sites/ Populations

	Progress	Target	Current	Accuracy	Monitoring
<b>UK</b>	Some progress (on schedule)				
<b>E</b>	Some progress (on schedule)				
<b>NI</b>	No progress				
<b>S</b>	No progress				
<b>W</b>	No progress				

## 5. Current factors affecting the habitat

When your plan was published the factors (threats) that were thought to be causing loss or decline were listed (in section 2). Re-assessing the current situation may help prioritise actions for your species or habitat. In addition, this enables identification of the main threats to biodiversity across all plans. It is useful to assess whether the importance of different factors is changing and whether there are new issues emerging.

The threat section from the original plan is duplicated below, and a first attempt at categorising the threats has been made. Please confirm that you agree with the categorisation of the original threats identified in the plan (by deleting any wrongly categorised threats and adding the correct category). Please also add to the list any significant threats that have emerged recently, being mindful of environmental issues that have increased in profile or been recognised since plan publication (e.g. climate change). Once you are happy that the list contains all the threats identified in the published plan together with any new ones, please rank them in order of severity (1= highest threat). If the situation has changed and one of the published threats is no longer significant, please leave this in the list but give this rank = 0.

### **Current factors affecting the habitat from the original publication:**

- 2.1 Habitat loss through, for example, building development or improvement of unmade trackways.
- 2.2 Drainage of habitats.
- 2.3 Cessation of traditional management practices such as peat cutting and grazing, and the associated successional changes.
- 2.4 Nitrate and phosphate pollution, and the associated increase in growth of competitive vegetation.
- 2.5 Atmospheric pollution, including heavy metals, nitrogen and sulphur dioxide may be important factors, although further research is required.
- 2.6 Afforestation has resulted in the loss of sites in north Wales.

## Keyworded factors:

To add factors click the add button, to delete factors check the delete box and then click the delete button.

Delete:	Rank:	Keyword:
<input type="checkbox"/>	1	Habitat loss / degradation - agriculture   Inappropriate grazing (due to timing or livestock type)
<input type="checkbox"/>	2	Habitat loss / degradation - extraction/drainage   Aggregate extraction - land
<input type="checkbox"/>	5	Habitat loss / degradation - extraction/drainage   Drainage (for agriculture)
<input type="checkbox"/>	2	Habitat loss / degradation - infrastructure development   Housing infrastructure
<input type="checkbox"/>	3	Habitat loss / degradation - management practice   Fires
<input type="checkbox"/>	1	Habitat loss / degradation - management practice   Lack of disturbance
<input type="checkbox"/>	1	Habitat loss / degradation - management practice   Scrub encroachment
<input type="checkbox"/>	4	Habitat loss / degradation - woodlands/forestry   Tree / wood planting
<input type="checkbox"/>	4	Pollution - atmospheric   Acid precipitation
<input type="checkbox"/>	4	Pollution - freshwater   Agricultural (nutrient enrichment)
<input type="checkbox"/>	3	Pollution - land   Agricultural (nutrient enrichment)

## 6. Constraints (optional)

Select the three most significant constraints to achieving the targets of the plan, and indicate the order of priority (1-3 with 1 being the most significant constraint). Only include constraints that are acting as a real blockage to delivering the plan targets or leading to a substantial delay in their delivery. For each constraint, please indicate whether you feel that it is within the ability of the lead partner or steering group to resolve the constraint.

<b>Constraint 1:</b>	
<b>Constraint keyword:</b>	<b>Country:</b>
Species and habitat management   Habitat quality declining (including due to poor management)	<input checked="" type="checkbox"/> UK <input checked="" type="checkbox"/> E <input type="checkbox"/> NI <input type="checkbox"/> S <input type="checkbox"/> W
<b>Solution:</b>	<b>Solution type:</b>
Lack of occasional disturbance has resulted in gradual loss of habitat. To have occasional disturbance e.g grazing or forage cutter	Management
<b>Able to resolve:</b>	<input checked="" type="checkbox"/>
<b>Constraint 2:</b>	

<b>Constraint keyword:</b>	<b>Country:</b>
Research, survey and information   Autecology - poor know ledge	<input checked="" type="checkbox"/> UK <input checked="" type="checkbox"/> E <input type="checkbox"/> NI <input type="checkbox"/> S <input type="checkbox"/> W
<b>Solution:</b>	<b>Solution type:</b>
Research needed in to the gametophyte phase of grow th	Research
<b>Able to resolve:</b>	<input checked="" type="checkbox"/>
<b>Constraint 3:</b>	
<b>Constraint keyword:</b>	<b>Country:</b>
Policy, legislation and designation   Insufficient protection through UK designated sites (SSSI, NNR, MNR)	<input type="checkbox"/> UK <input checked="" type="checkbox"/> E <input type="checkbox"/> NI <input type="checkbox"/> S <input type="checkbox"/> W
<b>Solution:</b>	<b>Solution type:</b>
The largest population in the country is under threat from mineral extraction	Legislation and policies
<b>Able to resolve:</b>	<input checked="" type="checkbox"/>

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## 7. Steering Group

Please list all organisations that are represented on the steering group for your species/habitat (include all organisations that have contributed either directly or by correspondence within the last 3 years). Where a steering group does not exist please leave this form blank.

To add organisations click the add button, to delete organisations check the delete box and then click the delete button.

Delete:	Organisation:
<input type="checkbox"/>	Cambridge University Botanic Garden
<input type="checkbox"/>	Countryside Council for Wales
<input type="checkbox"/>	English Nature
<input type="checkbox"/>	Environment Agency
<input type="checkbox"/>	Joint Nature Conservation Committee
<input type="checkbox"/>	Natural History Museum
<input type="checkbox"/>	Plantlife
<input type="checkbox"/>	Pond Action

Royal Botanic Gardens, Edinburgh

Scottish Executive

Scottish Natural Heritage

University of Bradford

University of Plymouth

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## 8. Other Groups/Organisations

Please list any additional groups/organisations that are actively involved in implementing your action plan. (This is to try to assess which groups are involved where there is no steering group and any additional contributors). If you do not have any other organisations involved, [click here](#).

To add organisations click the add button, to delete organisations check the delete box and then click the delete button.

**Delete:** **Organisation:**

National Trust

North West Wales Wildlife trust

- Snowdonia National Park Authority
- Stirling Council
- University of Wales, Bangor

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## 9. Linkages to LBAPs

a) Which of the following most accurately describes your interaction with LBAPs, up to now?

Good contact with LBAPs, information exchanged.

b) If you have been in contact with LBAPs how was it initiated?

By Both

c) Irrespective of current contact, how important do you consider LBAP co-ordinated action will be in achieving the targets of the plan? Select from category:

Important

d) If you consider LBAP action to be anything other than unimportant, which of the following forms of engagement do you think would be appropriate? (Note, you may tick more than one category.)

- Indirect contact (e.g. posting information on UKBAP website, sharing work programmes, meeting schedules, articles in Biodiversity News, newsletter)
- Provision of generic information on habitat and/or species (e.g. advice and guidance on habitat/species ecology and management)
- Direct provision of advice (e.g. proactive approach to LBAP, response to consultations from LBAPs, advice on LBAP target setting)
- Reciprocal attendance at meetings
- Development of collaborative projects

Other (please specify):

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## 10. Successes (optional)

Have there been key successes in the implementation of your plan that should be drawn to the attention of government, the wider BAP partnership, or the public? Please give a brief description (i.e. 2-3 sentences) of up to three successes and allocate a topic area to each of them:

### Success 1:

Description:

Country:

Lusby (1998) show s that it is unlikely that Lycopodiella inundat  
is threatened in Scotland

UK  E  NI  S  W

**Keyword:**

Research, survey and information | Baseline survey - achieved or started

**Success 2:**

**Description:**

Lusby (1998) also show s a new ly recognised niche for  
Lycopodiella inundata around reservoir edges

**Country:**

UK  E  NI  S  W

**Keyword:**

Research, survey and information | Other

**Success 3:**

**Description:**

**Country:**

Experimental management at 2 Surrey sites having some success

UK  E  NI  S  W

**Keyword:**

Species and habitat management | Habitat quality improved

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Thank you for answering the questions. You have not yet completed all of the questions. You can go back and answer the additional ones or edit the ones you have already answered whenever you want.

**Sign-off:**

When you have completed all of the questions that you are able to, you must sign off your reporting.

I agree that the steering group (if present) have agreed the information in this report and that the following contact point has also signed it off:

**Contact point:**  **email:**

**Your name:**

**Date:**

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