

Linnaea borealis (Twinflower)

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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	76	Sites/ Populations	2002	Partial or sample survey	SNH species database 2002
E					
NI					
S	76	Sites/ Populations	2002	Partial or sample survey	SNH species database 2002
W					

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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:
UK	Declining (continuing/accelerating) ▼	Informed guess ▼	See below
E	▼	▼	
NI	▼	▼	
S	Declining (continuing/accelerating) ▼	Informed guess ▼	Kohn & Ennos SNH report unpublished (2000)
W	▼	▼	

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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.

Status of knowledge: Know ledge insufficient but research currently underw ay. ▼

Notes:

Research ongoing into ecological requirements & required parameters for sexual regeneration. Current targets are based on sub sample figures. "Self sustaining" in Target 1 has been defined for this species to include vegetative spread as well as seed producing, even although vegetative spread is arguably not a long term self sustaining strategy. From the sub sample taken, non self sustaining populations for this exercise have been defined as those with up to 4 clones, even though they may also be reproducing vegetatively, in the short-term. For Target 2, populations capable of sexual reproduction are taken as those sampled with more than 4 clones.

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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.

T1: Achieve self-sustaining populations of twinflower at 1998 levels at all extant sites.

Target start date:

1999

Target end date: ongoing

Target units: Sites/ Populations

	Progress	Target	Current	Accuracy	Monitoring
UK	Some progress (behind schedule)		64	Partial or sample survey	Yes
E					
NI					
S	Some progress (behind schedule)		64	Partial or sample survey	Yes
W					

T2: Ensure that all populations are capable of sexual regeneration by 2010.

Target start date: 1999

Target end date: 2010

Target units: Sites/ Populations

	Progress	Target	Current	Accuracy	Monitoring
UK	Some progress (behind schedule) ▼		4	Partial or sample survey ▼	Yes ▼
E	▼			▼	▼
NI	▼			▼	▼
S	Some progress (behind schedule) ▼		4	Partial or sample survey ▼	Yes ▼
W	▼			▼	▼

T3: Restore to five sites within the historic range by 2005

Target start date:

Target end date:

Target units:

	Progress	Target	Current	Accuracy	Monitoring
UK	Some progress (behind schedule) ▼	5	0	Informed guess ▼	Under active development ▼

E	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
NI	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
S	Some progress (behind schedule)	5	0	Informed guess	Under active development
W	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

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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 Mechanical harvesting of timber and ground preparation for replanting.

2.2 Unrestricted grazing by deer, sheep or cattle affecting the pinewood habitat.

2.3 Reproductive isolation of twinflower populations consisting of single clones.

2.4 Shade resulting from encouragement of dense tree regeneration.

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"/>	2	Habitat loss / degradation - agriculture Inappropriate grazing (due to timing or livestock type)
<input type="checkbox"/>	1	Habitat loss / degradation - woodlands/forestry Felling / loss of trees (general)
<input type="checkbox"/>	2	Habitat loss / degradation - woodlands/forestry Tree / wood planting
<input type="checkbox"/>	3	Intrinsic Factors Restricted range

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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.

Constraint 1:

Constraint keyword:

Research, survey and information | Autecology - poor know ledge

Country:

UK E NI S
 W

Solution:

Ongoing survey should help to identify habitat requirements

Solution type:

Research

Able to resolve:

Constraint 2:

Constraint keyword:

Species and habitat management | Habitat fragmentation increasing or too great

Country:

UK E NI S
 W

Solution:

Established site netw orks

Solution type:

Management

Able to resolve:

Constraint 3:

Constraint keyword:

Communication | Land managers / owners - lack of advice

Country:

UK E NI S
 W

Solution:

More management advice required by forestry managers

Solution type:

Research

Able to resolve:

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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.

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:
<input type="checkbox"/>	Forestry Commission Research Agency
<input type="checkbox"/>	Plantlife
<input type="checkbox"/>	Royal Botanic Gardens, Edinburgh
<input type="checkbox"/>	Royal Society for the Protection of Birds
<input type="checkbox"/>	Scottish Natural Heritage
<input type="checkbox"/>	University of Aberdeen
<input type="checkbox"/>	University of Edinburgh

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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 Lead Partner

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):

>

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:

UK E NI S W

Keyword:

Success 2:

Description:

Country:

UK E NI S W

Keyword:

Success 3:

Description:	Country:
<input type="text"/>	<input type="checkbox"/> UK <input type="checkbox"/> E <input type="checkbox"/> NI <input type="checkbox"/> S <input type="checkbox"/> W
Keyword:	
<input type="text"/>	

Thankyou 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:	<input type="text" value="Alice Broome"/>	email:	<input type="text" value="alice.broome@"/>
Your name:	<input type="text" value="Deborah Long"/>		
Date:	<input type="text" value="19 December"/>		