

Species and Habitat Action Plan Assessment Form

Please refer to the accompanying guidance for information about how to complete this form and an explanation of terms used

Field 1: Action Plan details

Species/Habitat Action Plan	<i>Lycopodiella inundata</i>
Lead Partner/Agency	Plantlife.
Steering Group/Other organisations	<i>Steering group in existence? Please state yes or no. Please list the organisations represented.</i> Met for first time in October 1999: includes CCW, EN, Sheffield University, Natural History Museum, Plantlife, independent consultants, SNH
Work programme in existence?	Yes.

Field 2: Objectives and targets overview

Please list the targets for the action plan, indicating in which country/region the target is applicable, and additional comments including the rationale for new targets. For each new target please add new sequential paragraph numbers and target text. Please provide information about progress and country disaggregation in Table A for all targets.

Number and text	UK	E	NI	S	W	Comments
4.1. Maintain viable populations at all extant sites.		x		x	x	
4.2. Enhance populations' numbers through experimental management at a range of extant sites.		x		x	x	
4.3. Restore populations at three suitable historic sites by 2003.		x	(x)	x	x	
4.4. Assess the feasibility of supporting the conservation of this species through an <i>ex-situ</i> programme.	x					

Field 3: Proposed action overview

Please list the proposed actions for the action plan, indicating in which country/region the action is applicable. For each new action please add new sequential paragraph numbers and action text. If the action is regarded as significant (please see guidance) indicate this in the box and provide further details in Table B. For actions not regarded as significant simply state if the action is ongoing or complete. Remember any action, which is being dropped from the workplan, will be regarded as significant for the first round of reporting.

Number and text	UK	E	NI	S	W	Action significant?	Action complete or ongoing? (Please state yes, not started, or ongoing.)
5.1.1. Assess the scale of protection already afforded to this species by designated sites and consider the need for additional designation or protection on other extant sites (CCW, EN, SNH).		x		x	x		Not started
5.1.2. When next reviewed, consider how existing agri-environment schemes could benefit the species, particularly in encouraging extensive land-use practices on land surrounding the stronghold sites, and reducing the impact of run-off on water quality (CCW, EN, MAFF, SNH, SOAEFD, WOAD).		x		x	x		Not started

Number and text	UK	E	NI	S	W	Action significant?	Action complete or ongoing? (Please state yes, not started, or ongoing.)
5.1.3. In contributing to any review of common land legislation, take into account the requirements of Marsh Clubmoss and other wet heath species (CCW, EN).		x		x	x	x	Ongoing
5.2.1. Where Marsh Clubmoss falls within SACs, promote favourable wet heath management, which will benefit the species (CCW, EN, SNH).		x		x	x	x	Ongoing
5.2.2. Where indicated as being necessary by 5.5.1. attempt to secure suitable management conditions on threatened sites (CCW, EHS, EN, SNH).		x		x	x	x	Ongoing
5.3.1. Restore Marsh Clubmoss to three historic sites where conditions still appear to be suitable for the species. Translocation of plant material from extant sites or <i>ex-situ</i> sources should only be undertaken if there is no regeneration from the spore-bank, nor natural recolonisation (CCW, EHS, EN, SNH).		x	(x)	x	x	x	Ongoing
5.3.2. Assess the feasibility and desirability of establishing an <i>ex-situ</i> conservation programme, and implement promptly, if appropriate (CCW, EHS, EN, JNCC, SNH).	x						Not started
5.4.1. Ensure that landowners and managers on extant sites are aware of the presence and importance of this species, and are advised on appropriate management (CCW, EHS, EN, SNH).		x		x	x	x	Ongoing
5.4.2. Advise relevant agri-environment project officers of locations of this species, its importance, and management needed for its conservation (CCW, DANI, EHS, EN, MAFF, SNH, SOAEFD, WOAD).		x		x	x	x	Not started
5.5.1 Collate all known information on extant and former British sites, re-surveying sites where necessary to determine the current distribution and status of this species, assess management regimes and identify current threats (CCW, EHS, EN, JNCC, SNH).	x					x	Ongoing
5.5.2. Undertake research into the ecological requirements of this species and the reasons for its decline. Research should include a comparison of survival and performance on sites selected for a range of management conditions in order to inform positive management agreements to maintain and enhance existing populations (CCW, EHS, EN, JNCC, SNH).	x					x	Ongoing
5.5.4. Undertake further surveys for the plant, particularly in Scotland and north Wales where new sites may await discovery (CCW, EHS, EN, JNCC, SNH).		x	x		x	x	Ongoing
5.5.4. Encourage research into the European status of this species (JNCC).	x					x	Ongoing

Number and text	UK	E	NI	S	W	Action significant?	Action complete or ongoing? (Please state yes, not started, or ongoing.)
5.6.1. Promote the importance of habitats with fluctuating water levels and high levels of disturbance. An article should be written for appropriate farming and conservation publications (CCW, EHS, EN, SNH).	x						Not started.
5.6.2. Encourage botanists to record any records of this species, including ecological information. An article should be written for botanical publications in order to raise awareness of the plant (CCW, EHS, EN, SNH).	x					x	Ongoing

Field 4: Assessment of status

Please tick the appropriate category to indicate the assessment of status of the species or habitat, for each country/region where appropriate, and provide a statement supporting the category selected.

	Not appropriate	Recovered	Signs of recovery	No change	Declining	Lost	Insufficient information
<i>UK</i>							
<i>England</i>					x		
<i>Northern Ireland</i>							
<i>Scotland</i>					x		
<i>Wales</i>							x
Brief text description justifying assessment of status: (~ no more than 100 words for each country/region)							
<p>England: The most recent published account of the distribution of the species (1995) shows significant losses in range still occurring between 1970 and 1995; there is at present no evidence to show a change in this trend. However, a recent review of historical information on the species undertaken through the BSBI Threatened Plants Database shows that information in some areas is patchy and that further desk study and survey work will be necessary to establish a good base-line for monitoring progress in the future.</p> <p>Scotland: All known sites have been revisited as part of a programme, funded by SNH at RBGE, demonstrating that no decline of this species has occurred in Scotland. Detailed evaluation of the habitat will act as a basis for a wide-ranging survey for unknown locations by the BSBI as part of its work, funded by SNH, under the Threatened Plants Database.</p> <p>Wales: The species has always had a limited distribution in Wales; most recently published account (1995) shows that declines at a 10km square basis occurred before 1930 but some more recent declines within the extant populations have been reported (along with the rediscovery of a pre-1930 population).</p>							

Field 5: Summary statement

Please provide an overview of plan implementation, including new factors affecting the species or habitat, which will accelerate or constrain progress towards meeting of the targets. Where a factor results in new action(s) please cross-reference back to the relevant numbers under Field 3 and Table B.

Implementation of the plan began in earnest during 1999, with the compilation of the BSBI Threatened Plants Database list of records which is now being supplemented by Plantlife desk study and survey in England (as part of a project jointly funded by EN) A comprehensive resurvey of sites in Scotland indicates that the species here, while scattered, is not under threat and suggests that further planned survey may reveal that the species is more widespread than currently realised. A Steering group is being convened during Autumn 1999, where an assessment will be made of existing ecological investigations into the species, with a view to determining if further research effort is needed to assist with the implementation of the plan; a draft work programme has also been produced which it is hoped will be amended and agreed during this meeting, so that work on a site level can begin.

In England & Wales, problems with implementation are likely to be those encountered during work on species of similar habitats, for example *Ranunculus tripartitus* and *Pilularia globulifera*; these include lack of definitive information about distribution; need for additional targeting and resourcing of agri-environment payments; reform of common land legislation; improved mechanisms for positive management of SSSIs; funding for liaison work with landowners and managers at a local level and lack of protection for sites for the species where these occur outside of SSSIs.

Field 6: Signing off

Please 'sign off' the form below to confirm that steering group members or key contacts have been consulted and agreed the information provided.

Contact details	Lead Partner	Contact Point 1	Contact Point 2
Name	Ruth Davis	Andy Jones	Rob Cooke
Organisation	Plantlife	CCW	EN
Assessment date (dd/mm/yy)	29.10.99	29.10.99	29.10.99

Completed forms should be submitted to JNCC

Biodiversity Information Service
 Joint Nature Conservation Committee
 Monkstone House
 City Road
 Peterborough PE1 1JY
 Tel: 01733 562626
 Fax: 01733 555948
 E-mail: lpr99@jncc.gov.uk

Table A: Action Plan objectives and targets (Copiable table)

For each target please state how, if applicable, it has been disaggregated to the country level. Please insert the paragraph number, UK target and country-specific disaggregated target(s) into the table. Please tick the appropriate category to indicate progress against published and disaggregated targets. For each target please copy the table and detail the (existing or new [new paragraph numbers should run sequentially, under relevant headings in the published volumes]) paragraph number, target text and an assessment of progress.

Objective/target (For new or revised targets please provide the new paragraph number and target text.)	4.1. Maintain viable populations at all extant sites.				
	Not appropriate	Target achieved	Some progress	No progress	Insufficient information
UK					
England					X
Northern Ireland					
Scotland					X
Wales					X

Text description of target progress (separate for each country/region):

England: Information on the whereabouts of extant sites and on the degree of local conservation input is insufficient to judge how much progress is being made towards meeting this target.

Scotland: Populations in Scotland appear, although scattered, to be viable and not obviously threatened by current landuse practices.

Wales: All previously recorded sites have now been visited and assessed but there is a very strong likelihood of further as yet undiscovered sites coming to light.

Objective/target (For new or revised targets please provide the new paragraph number and target text.)	4.2. Enhance population numbers through experimental management at a range of extant sites.				
Country	Not appropriate	Target achieved	Some progress	No progress	Insufficient information
<i>UK</i>					
<i>England</i>				x	
<i>Northern Ireland</i>					
<i>Scotland</i>				x	
<i>Wales</i>				x	
Text description of target progress (separate for each country/region):					
England: No work has yet been initiated through the action plan towards the achievement of this target (other than identification of possibly appropriate sites). Other work may be going on independently of the BAP process from which we can learn.					
Scotland: No work appears to be appropriate given 4.1 above.					
Wales: No work has yet been initiated through the action plan towards the achievement of this target (other than identification of possibly appropriate sites). Previous attempts to halt the decline of one dwindling site (by altering local drainage) does not appear to have been successful. Other work may be going on independently of the BAP process from which we can learn.					

Objective/target (For new or revised targets please provide the new paragraph number and target text.)	4.3. Restore populations at three historic sites by 2003.				
Country	Not appropriate	Target achieved	Some progress	No progress	Insufficient information
<i>UK</i>					
<i>England</i>			x		
<i>Northern Ireland</i>					
<i>Scotland</i>				x	
<i>Wales</i>			x		
Text description of target progress (separate for each country/region):					
England: No action has been taken under the auspices of the plan other than to collate data on historic sites; however, re-introductions have been or are being undertaken at a number of sites independently which may contribute to achieving this target and be useful in informing further efforts.					
Scotland: No action appears to be required.					
Wales: No action has been taken under the auspices of the plan other than to collate data on historic sites and survey (which, by rediscovering one population previously thought to have been lost has, in effect, restored one population).					

Objective/target (For new or revised targets please provide the new paragraph number and target text.)	4.4. Assess the feasibility of supporting the conservation of this species through an <i>ex-situ</i> programme.				
Country	Not appropriate	Target achieved	Some progress	No progress	Insufficient information
<i>UK</i>				x	
<i>England</i>					
<i>Northern Ireland</i>					
<i>Scotland</i>					
<i>Wales</i>					
Text description of target progress (separate for each country/region):					
UK: The need for such a programme and its practicalities will be discussed at first Steering Group Meeting in Autumn 1999.					

Table B: Proposed actions (Copiable table)

For each significant action please copy and complete the table below.

Published action/organisation(s) responsible (For new or revised actions please provide the new paragraph number and action text.)	5.1.3. Ensure that the requirements of Marsh Clubmoss and other wet heath species are taken into account in any review of common land legislation.	
Work plan/organisation(s) responsible (Summary of work plan agreed by the steering group, broken down by year if possible.)	Action Proposed in Draft Work Programme: 1. Ensure that needs of these species are taken fully into account in any review of common land legislation (CCW, EN, Lowland Heathland Habitat Steering Group)	
Action/workplan undertaken? (Please state yes or no.)	No	
Description of work taken and organisation responsible	Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.	
Output and timescale		Action by
Constraints to action (Please provide an explanation of the significant issues or difficulties encountered and how they have been or will be resolved. Any constraints which the steering group are unable to resolve should also be detailed.)	Difficulty at present in ensuring that the interests of this and other species of similar habitats are fully considered by the relevant habitat action plan steering group, who are likely to take the lead in developing proposals for common land legislation reform.	
Action complete or ongoing? (Please state yes, not started, or ongoing.)	Ongoing	
Next steps	Please outline future action/work including an indication of expected output, timescale and organisation responsible.	
Output and timescale	As stated above; in time to influence proposals being developed by Lowland Heathland HAP Steering Group and others.	Action by CCW, EN, Lowland Heathland Habitat Steering Group

Published action/organisation(s) responsible (For new or revised actions please provide the new paragraph number and action text.)	5.2.1. Where Marsh Clubmoss falls within SACs, the promotion of wet heath management which will benefit the species.	
Work plan/organisation(s) responsible (Summary of work plan agreed by the steering group, broken down by year if possible.)	Action Proposed in Draft Work Programme: Ensure that the needs of these species are taken fully into account when assessing important features and management requirements of SACs (CCW, EN, SNH)	
Action/workplan undertaken? (Please state yes or no.)	England: Yes Wales: Yes	
Description of work taken and organisation responsible	<i>Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.</i>	
Output and timescale	England: New Forest, Thursley, Frensham. As marsh clubmoss in not a Habitat's Directive species it will not have any specific objectives at SAC level. However, where it occurs on these sites it will be covered by SSSI objectives and management operations. Wales: Present in Y Wyddfa cSAC	Action by EN.
Constraints to action (Please provide an explanation of the significant issues or difficulties encountered and how they have been or will be resolved. Any constraints which the steering group are unable to resolve should also be detailed.)	Information as yet insufficient to identify all relevant areas.	
Action complete or ongoing? (Please state yes, not started, or ongoing.)	Ongoing	
Next steps	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i> Use review of distribution to identify which cSACs contain populations and ensure that their conservation needs are considered when developing management programmes. (CCW, EN, SNH)	
Output and timescale	Identify appropriate sites in 2000. Ensure that development of management programmes for sites have taken this and similar species into account by 2002	Action by CCW, EN, SNH.

Published action/organisation(s) responsible (For new or revised actions please provide the new paragraph number and action text.)	5.2.2. Where indicated as being necessary by 5.5.1. attempt to secure suitable management conditions on threatened sites (CCW, EHS, EN, SNH).
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<p>Work plan/organisation(s) responsible (Summary of work plan agreed by the steering group, broken down by year if possible.)</p>	<p>Actions Proposed in Draft Work Programme:</p> <ol style="list-style-type: none"> Following an initial review of historic data, attempt to identify sites requiring improvements in management and make recommendations for this (CCW, EHS, EN, Plantlife, SNH) 1999 - 2000 Where sites identified above are in conservation management/ownership ensure that any required changes in management are implemented (EN, ESH, CCW, Local Authorities, National Trust, SNH, Wildlife Trusts) 2000 - 2001 Ensure that Site Management Statements for any sites identified above which are within SSSIs reflect the needs of this species, and wherever possible seek to reach agreements with owners to secure positive management (CCW, EN, SNH) 2000 - 2001 Where sites are in private ownership and outside of SSSIs ensure that owners are aware of the presence and importance of this species and attempt to secure positive management (Plantlife, Local Authorities, Wildlife Trusts) 2000 - 2001 	
<p>Action/workplan undertaken? (Please state yes or no.)</p>	<p>Yes</p>	
<p>Description of work taken and organisation responsible</p>	<p>Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.</p>	
<p>Output and timescale</p>	<p>England: Action 1: Although action has not been taken under the auspices of a Steering Group, various local biodiversity projects have been working to identify sites within their area and secure appropriate management.</p> <p>Scotland: CS, please add if relevant.</p> <p>Wales: A small contract survey has assessed the condition and management status of all populations in Wales in 1999. This review will inform the management plans currently being written for all sites on SSSIs (over the next 2 years) and locality/status data is being made available to agri-environment (Tir Gofal) staff.</p>	<p>Action by EN, Local Biodiversity Initiatives.</p>
<p>Constraints to action (Please provide an explanation of the significant issues or difficulties encountered and how they have been or will be resolved. Any constraints which the steering group are unable to resolve should also be detailed.)</p>	<p>England: Lack of co-ordination of current conservation activity (including inadequate means of communicating between national and local initiatives), so difficult to identify where steering group efforts need to be concentrated.</p>	
<p>Action complete or ongoing? (Please state yes, not started, or ongoing.)</p>	<p>Ongoing</p>	
<p>Next steps</p>	<p>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</p>	
<p>Output and timescale</p>	<p>As stated in work programme.</p>	<p>Action by CCW, EN, Local Authorities, Plantlife, National Trust, SNH, Wildlife Trusts</p>

<p>Published action/organisation(s) responsible (For new or revised actions please provide the new paragraph number and action text.)</p>	<p>5.3.1. Restore Marsh Clubmoss to three historic sites where conditions still appear to be suitable for the species. Translocation of plant material from extant sites or <i>ex-situ</i> sources should only be undertaken if there is no regeneration from the spore-bank, nor natural recolonisation (CCW, EHS, EN, SNH).</p>	
<p>Work plan/organisation(s) responsible (Summary of work plan agreed by the steering group, broken down by year if possible.)</p>	<p>Proposed that this action should be considered following a review of previous translocation attempts.</p>	

Action/workplan undertaken? <i>(Please state yes or no.)</i>	Yes.	
Description of work taken and organisation responsible	<i>Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.</i>	
Output and timescale	Action has been taken previously by those involved with the conservation of this species, and a controlled translocation is planned in one Norfolk site which will then be assessed; no other work is currently planned until some idea of best practice can be established.	Action by EN, Plantlife.
Constraints to action <i>(Please provide an explanation of the significant issues or difficulties encountered and how they have been or will be resolved. Any constraints which the steering group are unable to resolve should also be detailed.)</i>	Need to assess success of previous translocations and to determine if these are the best use of conservation resources.	
Action complete or ongoing? <i>(Please state yes, not started, or ongoing.)</i>	Ongoing	
Next steps	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
Output and timescale	As stated.	Action by EN, Plantlife, UK Steering Group.

Published action/organisation(s) responsible <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	5.4.1. Ensure that landowners and managers on extant sites are aware of the presence and importance of this species, and are advised on appropriate management (CCW, EHS, EN, SNH).	
Work plan/organisation(s) responsible <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>	Actions Proposed in Draft Work Programme: 1. Wherever possible seek to ensure that the SSSI network and County Wildlife Site network is used to inform landowners of the presence of this species (and see above, 5.1.1 and 5.2.2) (CCW, EN, ESH, Local Authorities, SNH, Wildlife Trusts) 2. Produce guidance on the ecology and management of this species following survey of sites and incorporate this into an expanded species action plan for this plant. (Plantlife) 3. Ensure that the above guidelines are widely available (Plantlife)	
Action/workplan undertaken? <i>(Please state yes or no.)</i>	Yes	
Description of work taken and organisation responsible	<i>Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.</i>	
Output and timescale	England: Action 1: Although action has not been taken under the auspices of a Steering Group, various local biodiversity projects have been working to identify sites within their area and secure appropriate management. Scotland: CS, please add if relevant. Wales: Most of sites are on SSSIs so land owner/occupiers will be made aware of presence of species during site visits.	Action by EN, Local Biodiversity Initiatives.
Constraints to action <i>(Please provide an explanation of the significant issues or difficulties encountered and how they have been or will be resolved. Any constraints which the steering group are unable to resolve should also be detailed.)</i>	England: Lack of co-ordination of current conservation activity (including inadequate means of communicating between national and local initiatives), so difficult to identify where steering group efforts need to be concentrated or to assess how much work is being done. Wales: Several sites are on land where ownership details are not as yet known to CCW staff.	

Action complete or ongoing? (Please state yes, not started, or ongoing.)	Ongoing	
Next steps	Please outline future action/work including an indication of expected output, timescale and organisation responsible.	
Output and timescale	As stated in work programme	Action by CCW, EN, ESH, Local Authorities, SNH, Wildlife Trust

Published action/organisation(s) responsible (For new or revised actions please provide the new paragraph number and action text.)	5.4.2. Advise relevant agri-environment project officers of locations of this species, its importance, and management needed for its conservation (CCW, DANI, EHS, EN, MAFF, SNH, SOAEFD, WOAD).	
Work plan/organisation(s) responsible (Summary of work plan agreed by the steering group, broken down by year if possible.)	Actions Proposed in Draft Work Programme: 1. Ensure that information on the whereabouts of this species is supplied to relevant organisations (BSBI, Plantlife) 1999, 2000 2. Ensure that Project Officers are given access to, and informed of the importance of, information on sites for this species, and are made aware of sources of advice on appropriate management. (DANI, MAFF, SOAEFD, WOAD) 2000 – 2001	
Action/workplan undertaken? (Please state yes or no.)	Yes	
Description of work taken and organisation responsible	Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.	
Output and timescale	Wales: Tir Gofal staff will have access to locality information for this species (currently being placed on CCW GIS database).	Action by CCW, Tir Gofal
Constraints to action (Please provide an explanation of the significant issues or difficulties encountered and how they have been or will be resolved. Any constraints which the steering group are unable to resolve should also be detailed.)	England: No links at present between the Threatened Plants Database (node of the proposed NBN) and FRCA databases; therefore difficult to ensure that all relevant information is exchanged. This requires further investment in the development of the NBN and further communication between government departments/agencies involved in BAP delivery (ie in this case Country Agencies and MAFF/FRCA).	
Action complete or ongoing? (Please state yes, not started, or ongoing.)	Ongoing	
Next steps	Please outline future action/work including an indication of expected output, timescale and organisation responsible.	
Output and timescale	As stated in work programme.	Action by BSBI, CCW, EN, Plantlife, DANI, MAFF, SNH, SOAEFD, WOAD

Published action/organisation(s) responsible (For new or revised actions please provide the new paragraph number and action text.)	5.5.1 Collate all known information on extant and former British sites, re-surveying sites where necessary to determine the current distribution and status of this species, assess management regimes and identify current threats (CCW, EHS, EN, JNCC, SNH)	
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Work plan/organisation(s) responsible <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>	Actions Proposed in Draft Work Programme: <ol style="list-style-type: none"> Analyse information collated by BSBI Threatened Plants Database to identify areas in England where the species has suffered a serious decline and sites requiring re-survey within that, with a view to improving management at extant and recently extinct sites. (BSBI, Plantlife) 1999 Undertake survey work in England as recommended from the above review (BSBI, Plantlife) 2000 - 2001 Undertake any survey work necessary in Wales and Scotland following a review of the data currently held by BSBI Threatened Plants Database (CCW, SNH) 2000 - 2001 	
Action/workplan undertaken? <i>(Please state yes or no.)</i>	Yes	
Description of work taken and organisation responsible	<i>Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.</i>	
Output and timescale	<p>UK: Action 1: Current data collated by BSBI Threatened Plants Database.</p> <p>England: Review underway of data in Threatened Plants Database, additional desk work being undertaken to supplement this, priorities for future survey being identified.</p> <p>Scotland: This work completed in Scotland.</p> <p>Wales: After desktop review of all known sites CCW contracted a survey of all north Wales localities (the Pembrokeshire site is very well documented) which refound one of the previously lost former sites.</p>	<i>Action by</i> BSBI, EN, Plantlife
Constraints to action <i>(Please provide an explanation of the significant issues or difficulties encountered and how they have been or will be resolved. Any constraints which the steering group are unable to resolve should also be detailed.)</i>		
Action complete or ongoing? <i>(Please state yes, not started, or ongoing.)</i>		
Next steps	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
Output and timescale	As stated in work programme.	<i>Action by</i> BSBI, CCW, EN, Plantlife, SNH

Published action/organisation(s) responsible <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	5.5.2 Undertake research into the ecological requirements of the species and reasons for its decline. Research should include a comparison of survival and performance on sites selected for a range of management conditions in order to inform positive management agreements to maintain and enhance existing populations. (CCW, EHS, EN, JNCC, SNH)
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Work plan/organisation(s) responsible <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>	Actions Proposed in Draft Work Programme:	
	<ol style="list-style-type: none"> 1. Collate existing ecological knowledge and experience of management for this species and identify any key gaps in this (Plantlife, UK Steering Group) 2. Support collation of information on the habitat of this species as part of an investigation into the ecology of a number of species of similar habitat to be undertaken in France and Spain in Spring 1999 (EN, Plantlife) 3. Whilst undertaking the above survey, collect data on the ecology of the species with a view to improving this knowledge (BSBI, Plantlife) 	
Action/workplan undertaken? <i>(Please state yes or no.)</i>	Yes	
Description of work taken and organisation responsible	<i>Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.</i>	
Output and timescale	Action 1: work underway to identify current sources of information about this species, relevant people invited to first steering group meeting.	Action by EN, Plantlife, UK Steering Group
Constraints to action <i>(Please provide an explanation of the significant issues or difficulties encountered and how they have been or will be resolved. Any constraints which the steering group are unable to resolve should also be detailed.)</i>	Lack of co-ordination of efforts, difficulty in locating all relevant sources of information.	
Action complete or ongoing? <i>(Please state yes, not started, or ongoing.)</i>	Ongoing	
Next steps	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
Output and timescale	As stated in work programme: also, following review as above, initiate any further research work thought necessary to support conservation action. 2000 - 2001	Action by UK Steering Group.

Published action/organisation(s) responsible <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	5.5.4. Undertake further surveys for the plant, particularly in Scotland and north Wales where new sites may await discovery (CCW, EHS, EN, JNCC, SNH).	
Work plan/organisation(s) responsible <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>	Actions Proposed in Draft Work Programme:	
	<ol style="list-style-type: none"> 1. Encourage Vice County Recorders and other botanists to look for the species in likely habitats and to record it wherever it is found for incorporation into the BSBI Threatened Plants Database (BSBI) (Work in Scotland to be completed by BSBI Threatened Plants Database Project with funding already in place from SNH.) 	
Action/workplan undertaken? <i>(Please state yes or no.)</i>	Yes	
Description of work taken and organisation responsible	<i>Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.</i>	

Output and timescale	UK: Publicising work of BSBI Threatened Plants Database through VC Recorders newsletter etc. Wales: 1999 survey of all former sites in north Wales (refinding one site in Merioneth after an absence of records for over 70 years).	<i>Action by</i> BSBI
Constraints to action <i>(Please provide an explanation of the significant issues or difficulties encountered and how they have been or will be resolved. Any constraints which the steering group are unable to resolve should also be detailed.)</i>	VC Recorders and other active botanists are a limited resource and BAP is making many demands on them; may be unrealistic to imagine that they can deliver total required coverage; some funded survey may be necessary to supplement this.	
Action complete or ongoing? <i>(Please state yes, not started, or ongoing.)</i>	Ongoing	
Next steps	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
Output and timescale	As stated in work programme; also consider the need for more targeted search for new sites.	<i>Action by</i> BSBI; UK Steering Group.

Published action/organisation(s) responsible <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	5.5.4. Research encouraged into the European status of this species.	
Work plan/organisation(s) responsible <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>	1. Undertake a review of what is currently known about the European status of this species (Plantlife)	
Action/workplan undertaken? <i>(Please state yes or no.)</i>	Yes	
Description of work taken and organisation responsible	<i>Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.</i>	
Output and timescale	Action 1 underway (as part of project jointly funded by EN)	<i>Action by</i> EN, Natural History Museum, Plantlife.
Constraints to action <i>(Please provide an explanation of the significant issues or difficulties encountered and how they have been or will be resolved. Any constraints which the steering group are unable to resolve should also be detailed.)</i>	<ul style="list-style-type: none"> Funding unlikely to be available to further research into European status of the species should this be found to be necessary Data on European plant distributions and status very patchy; need for improved network of European plant conservation bodies. 	
Action complete or ongoing? <i>(Please state yes, not started, or ongoing.)</i>	Ongoing	
Next steps	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
Output and timescale	Following review, identify gaps and consider ways of plugging these in 2000	<i>Action by</i> UK Steering Group.

Published action/organisation(s) responsible <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	5.6.2. Encourage botanists to record any records of this species, including ecological information. An article should be written for botanical publications in order to raise awareness of the plant (CCW, EHS, EN, SNH).	
Work plan/organisation(s) responsible <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>	Actions undertaken under 5.5.4 above – same comments apply. Work in Scotland to be completed by BSBI Threatened Plants Database Project with funding already in place from SNH.	
Action/workplan undertaken? <i>(Please state yes or no.)</i>		
Description of work taken and organisation responsible	<i>Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.</i>	
Output and timescale		Action by
Constraints to action <i>(Please provide an explanation of the significant issues or difficulties encountered and how they have been or will be resolved. Any constraints which the steering group are unable to resolve should also be detailed.)</i>		
Action complete or ongoing? <i>(Please state yes, not started, or ongoing.)</i>		
Next steps	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
Output and timescale		Action by