

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>Lejeunea mandonii</i>
Lead Partner/Agency	Plantlife
Steering Group/Other organisations	Steering group in existence? Please state yes or no. Please list the organisations represented. No, but informal corresponding group exists for consultation, including EN, SNH, National Trust, British Bryological Society, independent consultants, JNCC
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. Survey to establish the status of the species in the UK.		x		x		
4.2. Maintain at all known, new or re-discovered sites.		x		x		
4.3. Promote research into the ecology of the species to ensure effective conservation management.	x					
4.4. Review the need for SSSI notification.		x		x		

Field 3: Proposed actions 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. Identify water quality standards which will favour this species and seek to ensure that these are taken into account in the management of occupied watercourses (EN, NRA, RPBs, SNH).	x					x	Ongoing
5.2.1. Encourage landowners to carry out positive management of important habitats for this species, paying particular attention to the problems caused by public access (EN, FA, SNH).		x		x		x	Ongoing
5.2.2. Review the need for notification of sites as SSSI pending the completion of surveys designed to discover whether the species still occurs at other sites (EN, SNH).		x		x		x	Review started but no action as yet
5.2.3. Seek to remove <i>Rhododendron</i> from affected sites (EN, FA, FE, SNH).		x		x?		x	Started

5.3.1. Consider addition of species to Schedule 8 of the WCA 1981 (DOE, JNCC).	x						Not considered relevant to conservation of this species.
5.3.2 NEW ACTION: Maintain material in cultivation with a view to supporting an ex-situ conservation programme for this and other bryophytes (Plantlife, RBG Kew)	x					x	Ongoing
5.4.1. Ensure land owners and managers at newly discovered or re-discovered sites are aware of the presence and international importance of conserving this species, and provide information on appropriate methods of management (EN, SNH).		x		x		x	Ongoing
5.5.1. Survey all former and potential sites to determine the distribution of this species (EN, JNCC, SNH).		x		x		x	Complete
5.5.2. Encourage ecological research on this species, including population dynamics, to help identify the reason for its disappearance from former sites (EN, JNCC, SNH).	x					x	Ongoing
5.5.3. Encourage research on the ecology and conservation of this species at an international level, particularly with others on the Atlantic fringe, and use the information and expertise gained towards its conservation in the UK (EN, JNCC, SNH).	x						Ongoing
5.5.4. Monitor population at extant sites regularly and identify any threats to the species (EN).		x		x		x	Ongoing
5.5.5. Pass information gathered during the surveying and monitoring of this species to JNCC or BRC so that it can be incorporated into national databases (EN, SNH).		x		x			Ongoing
5.5.6. Provide information annually to the World Conservation Monitoring Centre on the UK status of the species so as to contribute to the maintenance of an up-to-date global Red Data List (JNCC).	x						Ongoing
5.6.1. Raise awareness among landowners along the Atlantic fringe of the uniqueness of Atlantic bryophyte flora and the need for its protection (CCW, EN, FA, SNH).	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
UK							
England							x
Northern Ireland							
Scotland							x
Wales							
Brief text description justifying assessment of status: (~ no more than 100 words for each country/region)							
<p>England: Base-line data now complete for this species; species is now known at two further sites in Cornwall and many new colonies (an increase from 5 to 43) within existing sites have been discovered; however, this represents new information rather than recovery, and can only be used as a basis for recording performance in the future rather than an assessment of current conservation status.</p> <p>Scotland: Three localities for the species have been re-found in Scotland; two further former sites exist where it is considered possible that continued survey work may relocate colonies. Information is at present insufficient to comment on whether the species is declining or recovering.</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.

Plan implementation has largely progressed successfully; survey and ecological study has provided substantially more information about the species and its distribution and liaison with landowners and managers has been initiated which should produce positive results in the future, if their commitment can be sustained; at one large site in Cornwall a change of ownership of a site which is at present outside the SSSI network is delaying the implementation of appropriate management. Also, the level of SSSI protection for the species remains disappointing; it is hoped will be improved in the near future. It should be pointed out that although the knowledge of this species in England is thought to be good, the situation in Scotland is very different.

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
Name	Ruth Davis	Ron Porley
Organisation	Plantlife	English Nature
Assessment date (dd/mm/yy)		14.10.99 with some reservations about some of the actions being regarded as significant during current recording period eg 5.1.1, 5.5.2, 5.5.4, 5.3.2.

Completed forms should be submitted to JNCC

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 Joint Nature Conservation Committee
 Monkstone House
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 Peterborough PE1 1JY
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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. Survey to establish the status of the species in the UK.				
Country	Not appropriate	Target achieved	Some progress	No progress	Insufficient information
UK					
England		x			
Northern Ireland					
Scotland			x		
Wales					
Text description of target progress (separate for each country/region):					
England: All historic sites for the species have been re-surveyed, along with appropriate habitat in the vicinity.					
Scotland: Historically, <i>Lejeunea mandonii</i> was recorded from 5 localities in the Atlantic coastal area. A survey of all 5 sites carried out for SNH in 1996 by Gordon Rothero ascertained that it still occurs at 3 of those locations and, whilst not found at the other two, it may still occur. Further, Rothero records there is no shortage of suitable habitat on the west coast of Scotland, so it could yet be found at new localities.					
Objective/target (For new or revised targets please provide the new paragraph number and target text.)	4.2. Maintain at all known, new or re-discovered sites.				
Country	Not appropriate	Target achieved	Some progress	No progress	Insufficient information
UK					
England		x			
Northern Ireland					
Scotland		x			
Wales					
England and Scotland: No known sites have been lost or significantly damaged since publication of the plan as far as the authors are aware.					
Objective/target (For new or revised targets please provide the new paragraph number and target text.)	4.3. Promote research into the ecology of the species to ensure effective conservation management.				
Country	Not appropriate	Target achieved	Some progress	No progress	Insufficient information
UK		x			
England					
Northern Ireland					
Scotland					
Wales					
Scotland and England: Information has been collected about the habitat preferences and life-cycle of the species in the field; there is scope for continuing this to increase understanding particularly of the reproductive biology and responses to experimental management.					
Objective/target (For new or revised targets please provide the new paragraph number and target text.)	4.4. Review the need for SSSI notification.				

Country	Not appropriate	Target achieved	Some progress	No progress	Insufficient information
UK					
England			x		
Northern Ireland					
Scotland		x			
Wales					
<p>England: One large site in Cornwall has been identified as appropriate for designation as a SSSI but this has been delayed during a change of site ownership. This change has resulted in some concern from the Lead Partner organisation that the site remains unprotected at a vulnerable time and that proposed management action is being delayed. However, EN have given assurances that the notification will go ahead when the change of ownership is complete or if any threat to the site and the species arises in the meantime. It is hoped that notification will be completed within the framework of the current work programme.</p> <p>Scotland: All currently known sites are within SSSIs.</p>					

Table B: Proposed actions (Copiable table)

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

Published action/organisation(s) responsible <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	5.1.1. Identify water quality standards which will favour this species and seek to ensure that these are taken into account in the management of occupied watercourses (EN, NRA, RPBs, SNH).	
Work plan/organisation(s) responsible <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>	1. Ensure that EA/SEPA are aware of the presence of this species along rivers for which they have responsibility (Plantlife, SNH) 1999, 2000 2. Ensure that water courses on which the species occurs are protected from damaging changes in bank structure or management, and are protected from reductions in water quality (via LEAPs and other appropriate mechanisms) (EA) 1999 - 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	England: EA informed of whereabouts in England. Scotland: SEPA informed of whereabouts of species by SNH.	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>	Nothing significant as yet, but EA/SEPA only recently notified of site whereabouts; water quality considered to be less of an issue than river bank management, therefore work programme actions concentrate on 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	Discuss issues with EA/SEPA, determine their course of action.	Action by EA, EN, Plantlife, SNH

Published action/organisation(s) responsible (For new or revised actions please provide the new paragraph number and action text.)	5.2.1. Encourage landowners to carry out positive management of important habitats for this species, paying particular attention to the problems caused by public access (EN, FA, SNH).	
Work plan/organisation(s) responsible (Summary of work plan agreed by the steering group, broken down by year if possible.)	<ol style="list-style-type: none"> 1. Visit all landowners/managers in England to make arrangements for future management and monitoring (Plantlife) 1999 2. Ensure that all sites on the Lizard NNR which support this species are given appropriate management, in accordance with agreements reached during recent field visit (EN) 1999 - 2001 3. Ensure that sites within NT management on Lizard Peninsula are protected from damage (NT) 1999 - 2001 4. Ensure that landowners/managers for sites for this species are aware of its presence and importance, and are given appropriate advice on conservation management. (SNH) 1999 	
Action/workplan undertaken? (Please state yes or no.)	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>England: site visits and contact with landowners made; awaiting outcome of management recommendations of Cornwall sites.</p> <p>Scotland: Landowner at Coille Thogabhaig is to be informed at the next liaison meeting scheduled for 2 November 1999 at which he will be given a colour copy of the Species Dossier. Positive management other than pointing out the host tree to the owner probably not necessary in this case.</p>	Action by EN, National Trust, Plantlife
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: plans for positive management on private site in Cornwall held up during land sale; no way of foreseeing future level of co-operation on part of new landowner.	
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>	
Output and timescale	<p>England: Continue to monitor populations, carry out actions as specified in work programme, including actions agreed on Lizard NNR with EN; ensure contact with owner of Bonython Estate as soon as possible re: management and designation as SSSI</p> <p>Scotland: Continue to provide support for landowners/managers where necessary.</p>	Action by EN, National Trust, Plantlife

Published action/organisation(s) responsible (For new or revised actions please provide the new paragraph number and action text.)	5.2.2. Review the need for notification of sites as SSSI pending the completion of surveys designed to discover whether the species still occurs at other sites (EN, SNH).	
Work plan/organisation(s) responsible (Summary of work plan agreed by the steering group, broken down by year if possible.)	1. Following recent assessments of SSSI coverage for this species, where major colonies exist outside statutorily protected areas these should be proposed for designation (EN, SNH)	
Action/workplan undertaken? (Please state yes or no.)	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: Review undertaken, no notification of sites has taken place Scotland: all current colonies within SSSIs? <i>SNH confirm please.</i>	Action by EN, SNH
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: Major colony outside SSSI in Cornwall; notification held up during sale of land, but with guarantee of notification should any immediate threat arise to the site/population. Not clear how landowner will react to notification following sale? Scotland: all current colonies within SSSIs	
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	England: Ensure notification of remaining major colony on private land at Bonython Scotland: Maintain contacts with landowners/managers (see 5.4.1 below).	Action by EN, SNH

Published action/organisation(s) responsible <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	5.2.3. Seek to remove <i>Rhododendron</i> from affected sites (EN, FA, FE, SNH).	
Work plan/organisation(s) responsible <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>	1. Consider the need for the removal of <i>Rhododendron</i> at English sites when visiting these and make recommendations concerning this to land owners/managers (Plantlife) 1999 2. Ensure that this management is carried out where appropriate on SSSIs and on Lizard NNR (EN) 1999 - 2001 3. Where this management action is required on private land, ensure continued support for and liaison with land owner (EN, Plantlife) 1999 - 2001 4. Establish whether this is a problem at Scottish sites and take action or facilitate action where appropriate (SNH) 1999	
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 complete; Action 2, EN report please, Action 3 ongoing. Scotland: Action 4: <i>Rhododendron</i> is present at Loch Moidart but is not significant near to the 2 trees where <i>Lejeunea mandonii</i> is an epiphyte <i>Rhododendron</i> does not occur at Coille Thogabhaig.	Action by EN, Plantlife, SNH
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>	Ongoing	

Next steps	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
Output and timescale	Undertake actions as specified in work programme	Action by EN, Plantlife, SNH

Published action/organisation(s) responsible <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	5.3.2 NEW ACTION: Maintain material in cultivation with a view to supporting an ex-situ conservation programme for this and other bryophytes (Plantlife, RBG Kew)	
Work plan/organisation(s) responsible <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>	As stated 1999	
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	Material being maintained in cultivation by Plantlife/EN Project Officer for this species. There has been no attempt (since Kew project not due to start till early 2000) to cultivate this species within the EN/Kew project.	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>	Difficulties in establishing material initially.	
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	Continue to cultivate material to assist with investigations into species biology and autecology	Action by EN, Plantlife.

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 land owners and managers at newly discovered or re-discovered sites are aware of the presence and international importance of conserving this species, and provide information on appropriate methods of management (EN, SNH).	
Work plan/organisation(s) responsible <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>	1. Continue to provide information about the needs and importance of this species to landowners and land managers on SSSI and NNR (EN) 1999 - 2001 2. Re-visit land owners and site managers of sites in England to give advice on future monitoring and management. (Plantlife) 1999 3. Ensure that land owners and managers of sites for this species are aware of its presence, importance and management requirement (SNH) 1999 - 2000	
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 2 complete, action 1 ongoing. Scotland: <i>SNH to report on progress please.</i>	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>	England: change in ownership at one important site Scotland:	
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	Action by EN, National Trust, SNH

Published action/organisation(s) responsible <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	5.5.1. Survey all former and potential sites to determine the distribution of this species (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>	1. Action largely complete in England - review the need for further survey and undertake where necessary (EN, Plantlife, SNH) 2. All former sites surveyed in Scotland, but further survey required to cover all potential sites.	
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 complete. Scotland: further search in vicinity of two former but not recently confirmed records.	Action by EN, Plantlife, SNH
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>	Difficulties in surveying large areas without highly localised records. Species may well have been under-recorded in the past and still be being overlooked.	
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	Scotland: Further survey during 2000/1.	Action by 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. Encourage ecological research on this species, including population dynamics, to help identify the reason for its disappearance from former sites (EN, JNCC, SNH).	
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Work plan/organisation(s) responsible (Summary of work plan agreed by the steering group, broken down by year if possible.)	1. Complete population dynamics studies and analyse data collected over three year period; identify and further research necessary to inform conservation management for this species (EN, Plantlife)	
Action/workplan undertaken? (Please state yes or no.)	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	Studies of autecology underway since 1996; final report due January 2000.	Action by EN, Plantlife
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.)	Limited numbers of sites, difficulties in establishing material in cultivation.	
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>	
Output and timescale	As stated in work programme	Action by EN, Plantlife.

Published action/organisation(s) responsible (For new or revised actions please provide the new paragraph number and action text.)	5.5.4. Monitor population at extant sites regularly and identify any threats to the species (EN).	
Work plan/organisation(s) responsible (Summary of work plan agreed by the steering group, broken down by year if possible.)	<ol style="list-style-type: none"> 1. Consider how best to implement the monitoring strategy which has been devised for English sites at the end of the present three year project, with a view to making best use of local expertise (EN, Plantlife) 1999 2. Implement the above strategy for a minimum period of three years, and review subsequently (EN, Plantlife) 2000 - 2002 3. Consider how best to ensure appropriate monitoring of Scottish sites to enable progress against action plan targets to be assessed (SNH) 1999 	
Action/workplan undertaken? (Please state yes or no.)	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: strategy devised, to be implemented 2000 Scotland: Scottish sites to be monitored during 2000 /1, including an assessment of <i>Rhododendron ponticum</i> and the threat it may pose now or in the foreseeable future.	Action by EN, Plantlife
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.)	Difficulties in species identification and in determining what unit to monitor; isolation of some sites; however, Coille Thogabhaigh population as a species-pure stand lends itself to monitoring.	
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>	
Output and timescale	As stated in work programme	<i>Action by EN, Plantlife, SNH</i>