



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>Mentha pulegium</i> - Pennyroyal
Lead Partner/Agency	English Nature (Contact Point - EN)
Steering Group/Other organisations	No, although informal network of CCW, EN & Kew.
Work programme in existence?	No

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 the range of pennyroyal in the UK and establish suitable habitats throughout its historic range.		✓	✓		✓	
4.2 Maintain viable populations at all extant sites in the UK.		✓	✓		✓	
4.3 Regenerate pennyroyal from the seed-bank on at least five suitable historic sites by 2003.		✓	✓		✓	
4.4 Establish an <i>ex-situ</i> programme to protect genetic diversity, create a reserve population and provide experimental material.	✓					

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 Take account of the requirements of pennyroyal when developing new, or reviewing existing, environmental land management schemes that promote the traditional management of lowland commons and village greens.		✓	✓		✓	No	not started
5.1.2 In contributing to any review of common land legislation, take into account the requirements of pennyroyal and other wet heath species.		✓			✓	No	not started
5.2.1 Seek protection of all extant sites from damaging activities including infilling with hardcore, metalling of trackway sites, drainage and application of agro-chemicals.		✓	✓		✓	No	ongoing
5.2.2 Ensure the long-term protection and appropriate management of all extant native sites. Where necessary to achieve this, consider notifying sites as SSSIs.		✓	✓		✓	No	not started
5.2.3 Promote the continuation of traditional and beneficial forms of management, such as pony grazing, in the New Forest stronghold area.		✓				No	ongoing
5.3.1 Undertake trial management on at least five suitable historic sites with the aim of regeneration plants from a possible seed-bank.		✓				No	not started
5.3.2 Assess the feasibility and desirability of reintroducing pennyroyal at suitable historic sites should regeneration from the seed-bank prove unsuccessful.		✓	✓		✓	No	not started
5.3.3 Collect seed from a representative number of sites throughout pennyroyal's range and deposit in the Millennium Seed Bank at Wakehurst Place (Kew).		✓	✓		✓	Yes	ongoing
5.4.1 Ensure that landowners and managers are aware of the presence and importance of this species and are advised on appropriate management.		✓	✓		✓	No	ongoing
5.4.2 As far as possible, ensure that all relevant agri-environment project officers are advised of locations of this species, its importance and management needed for its conservation.		✓	✓		✓	No	not started

5.5.1	Re-survey all native sites which have not been surveyed in the last three years and where records have been made since 1970, in order to determine the current distribution and status of pennyroyal in the UK, ensure that management at each site is suitable and identify any potential threats.		✓	✓		✓	No	not started
5.5.2	Undertake detailed monitoring and ecological research on three viable sites in different parts of the range of pennyroyal with a view to improving understanding of its requirements and refining management techniques for its conservation.		✓	✓		✓	No	not started
5.5.3	Undertake regular monitoring on sites where populations have been restored. There should be a commitment to do this for at least 10 years.		✓	✓		✓	No	ongoing
5.5.4	Collate information on the status of pennyroyal throughout Europe.	✓					No	not started
5.6.1	Generally promote the importance of ephemeral, muddy, superficially untidy habitats. Articles could be produced for the media.		✓	✓		✓	Yes	

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>							✓
<i>Northern Ireland</i>							✓
<i>Scotland</i>	X						
<i>Wales</i>				✓			

Brief text description justifying assessment of status: (~ no more than 100 words for each country/region)

In England survey information very patchy, needs collating and systematic survey needs implementing before definitive status can be identified. In Wales the plant was seen at its sole known site in 1999 (Ray Woods). Situation in N Ireland unknown.

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.

Problem is one of resources in getting survey done and pulling together information. Complication is occurrence of non-native populations in the countryside and consequent confusion with native populations. In discussion with Kew to include this species within the molecular work programme to assess scale of problem, but arrangements will have to be made for field collection. Welsh site is heavily grazed to extent plant never flowers, and although an SSSI the land is Common and soil removal in the past has, and continues to do, pose a threat here. Priority should be to get plant into cultivation.

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	Ron Porley	Dave Stone (species co-ordinator)
Organisation	English Nature	English Nature
Assessment date (dd/mm/yy)	21 Sept 1999	29 September 1999

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 <i>(For new or revised targets please provide the new paragraph number and target text.)</i>		4.1 Maintain the range of pennyroyal in the UK and establish suitable habitats throughout its historic range.			
Country	Not appropriate	Target achieved	Some progress	No progress	Insufficient information
<i>UK</i>					
<i>England</i>					✓
<i>Northern Ireland</i>					✓
<i>Scotland</i>	X				
<i>Wales</i>			✓		
Text description of target progress (separate for each country/region): Fieldwork needs to be instigated in both England to address this action and to provide baseline information/data. Only 1 site in Wales hence relatively easy to assess status here, and here at least it is being maintained but through no special measures. Indeed grazing could be too intense but difficult balance.					

Objective/target <i>(For new or revised targets please provide the new paragraph number and target text.)</i>		4.2 Maintain viable populations at all extant sites in the UK.			
Country	Not appropriate	Target achieved	Some progress	No progress	Insufficient information
<i>UK</i>					
<i>England</i>					✓
<i>Northern Ireland</i>					✓
<i>Scotland</i>	X				
<i>Wales</i>			✓		✓
Text description of target progress (separate for each country/region): Need survey/fieldwork to take this forward in England. The Welsh site is extant (1999) but whether population is viable in long term is debatable; the heavy grazing means it never flowers, so it persists vegetatively, which it has done for the past 20 or so years.					

Objective/target <i>(For new or revised targets please provide the new paragraph number and target text.)</i>			4.3 Regenerate pennyroyal from the seed-bank on at least five suitable historic sites by 2003.		
Country	Not appropriate	Target achieved	Some progress	No progress	Insufficient information
<i>UK</i>					
<i>England</i>				✓	
<i>Northern Ireland</i>				✓	
<i>Scotland</i>	X				
<i>Wales</i>				✓	
Text description of target progress (separate for each country/region): Need to assess current status first in all countries; at Welsh site need to consider grazing pressure.					

Objective/target <i>(For new or revised targets please provide the new paragraph number and target text.)</i>			4.4 Establish an <i>ex-situ</i> programme to protect genetic diversity, create a reserve population and provide experimental material.		
Country	Not appropriate	Target achieved	Some progress	No progress	Insufficient information
<i>UK</i>					
<i>England</i>			✓		
<i>Northern Ireland</i>					✓
<i>Scotland</i>					
<i>Wales</i>				✓	
Text description of target progress (separate for each country/region): Discussions with Kew in progress as how to do this; they already hold an important <i>Mentha</i> collection, and probably this species. Provenance of material is an issue which needs addressing.					

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>	5.3.3 Collect seed from a representative number of sites.....	
Work plan/organisation(s) responsible <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>	Work undertaken as part of Millenium Seed Bank project	
Action/workplan undertaken? <i>(Please state yes or no.)</i>	No	
Description of work taken and organisation responsible.	Some populations have been sampled in England only as part of Millenium Seed Bank project. Details need to be extracted from Kew. No seed from Welsh site as plant never been seen to flower.	
Output and timescale		<i>Action by Kew/EN</i>
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>	People on the ground to collect material and the organisation/logistics.	
Action complete or ongoing? <i>(Please state yes, not started, or ongoing.)</i>	Ongoing	
Next steps	Need to review collections made to date by discussing this with Millenium Seed Bank manager, and to extend enquiry to all BAP species.	
Output and timescale	A coordinated strategy of seed collection within timeframe dictated by Millenium Seed Bank project.	<i>Action by Kew/EN</i>

Published action/organisation(s) responsible <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	5.6.1 Generally promote importance of ephemral flora/habitat...articles could be produced for media...	
Work plan/organisation(s) responsible <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>		
Action/workplan undertaken? <i>(Please state yes or no.)</i>	No	
Description of work taken and	An article written by RDP for Herb Society published on internet.	

organisation responsible.		
Output and timescale		<i>Action by RDP</i>
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	Identify future opportunities for raising profile of this species.	
Output and timescale		<i>Action by EN</i>