

# 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

<b>Species/Habitat Action Plan</b>	<i>Juniperus communis</i>
<b>Lead Partner/Agency</b>	Plantlife.
<b>Steering Group/Other organisations</b>	Steering group in existence? Please state yes or no. Please list the organisations represented. No – currently being organised.
<b>Work programme in existence?</b>	No – currently being developed.

## 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
<b>4.1.</b> Maintain the present range and overall population size of Juniper.		x		x	x	NI not listed anywhere on the plan, though species does occur there; at present not considered 'priority' in NI, but this will be reviewed in light of work undertaken in other countries.
<b>4.2.</b> Restore appropriate management to permit regeneration at all sites under direct conservation management, where the present condition of the population gives cause for concern.		x		x	x	As above for NI
<b>4.3.</b> Maintain, or re-establish, populations at sites not under direct conservation management.		x		x	x	As above for NI
<b>4.4.</b> Restore representative tree line Juniper populations.		x		x	x	As above for NI

## 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.)
<b>5.1.1.</b> Use the FC Woodland Grant Scheme as a means to maintain populations within the woodland context. This includes measures to encourage the restoration of sub-alpine scrub with Juniper where appropriate as the upper limit to native woodland schemes (FC, SNH).		x		x	x	x	Ongoing

<b>5.1.2.</b> When next reviewed, consider how the Scottish Countryside Premium Scheme, the Countryside Stewardship Scheme, Tir Gofal and other agri-environment schemes could benefit the species ( <b>MAFF, SOAEFD, WOAD</b> ).		x		x	x		Not started..
<b>5.1.3.</b> Take into account the ecological requirements of Juniper when seeking to influence the reform of CAP with respect to the management of semi-natural rough grazing land ( <b>MAFF, SOAEFD, WOAD</b> ).		x		x	x		Not started.
<b>5.2.1.</b> Consider the best examples of Juniper habitat which meets local or national criteria for notification of SSSIs ( <b>CCW, EN, SNH</b> ).		x		x	x	x	Ongoing
<b>5.2.2.</b> Assess site management in reserves and designated sites where Juniper exists and ensure that site management permits the natural regeneration of Juniper, at least in part ( <b>CCW, EN, FC, SNH</b> ).		x		x	x	x	Ongoing
<b>5.2.3.</b> Maintain existing populations outside SSSIs wherever possible by encouraging landowners to manage their land in ways that encourage Juniper, and by offering advice and practical assistance to enable such management ( <b>CCW, EN, FC, MAFF, SNH, SOAEFD, WOAD</b> ).		x		x	x	x	Ongoing
<b>5.3.1.</b> Assess the desirability of reintroducing Juniper at former sites in the regions of the UK in which the species has significantly declined . Undertake trial reintroduction where appropriate ( <b>CCW, EN, SNH</b> ).		x		x	x	x	Ongoing
<b>5.4.1.</b> Advise relevant landowners and managers of the presence and importance of Juniper, and of the appropriate management for its conservation ( <b>CCW, EN, FC, MAFF, SNH, )</b> .		x		x	x	x	Ongoing
<b>5.4.2.</b> As far as possible, ensure that relevant agri-environment project officers are advised of the location of this species, its importance, and of the management needed for its conservation ( <b>CCW, EN, FC, MAFF, SNH, SOAEFD, WOAD</b> ).		x		x	x		Not started.
<b>5.4.3.</b> Develop and issue best practice guidance to encourage the maintenance and regeneration of Juniper in woodland communities ( <b>CCW, EN, FC, SNH</b> ).	x					x	Ongoing
<b>5.4.4.</b> Develop and issue best practice guidance to encourage the restoration of treeline scrub woodland , with Juniper as a component ( <b>CCW, EN, FC, SNH</b> ).	x					x	Ongoing
<b>5.5.1.</b> Review the taxonomic status of subspecies <i>hemisphaerica</i> and intermediates ( <b>CCW, EN, SNH</b> ).	x					x	Ongoing.
<b>5.5.2.</b> Update the BRC database on the species to act as a base line for regional assessments of local conservation requirements for the species ( <b>CCW, EN, SNH</b> ).	x						Ongoing

Number and text	UK	E	NI	S	W	Action significant?	Action complete or ongoing? (Please state yes, not started, or ongoing.)
<b>5.5.3.</b> Develop and carry out a programme for a regional survey to assess the extent, age range, and reproductive potential of Juniper populations. These should then be classified according to the risk of loss and potential for survival. Use the results of this survey to set priorities for regional action to maintain and, where necessary, restore populations ( <b>CCW, EN, SNH</b> ).		x		x	x	x	Ongoing
<b>5.5.4.</b> Identify suitable areas where new populations of Juniper can be established to contribute to habitat biodiversity, and to replace unavoidable losses of existing populations ( <b>CCW, EN, SNH</b> ).		x		x	x	x	Ongoing.
<b>5.5.5.</b> Undertake research into optimum levels of grazing disturbance and habitat management to encourage germination, regeneration, and development of Juniper ( <b>CCW, EN, FC, SNH</b> ).		x		x	x	x	Ongoing.
<b>5.5.6.</b> Review method for establishing Juniper ( <b>CCW, EN, FC, SNH</b> ).		x		x	x	x	Ongoing.
<b>5.5.7.</b> Clarify the classification of Juniper communities within the British NVC ( <b>SNH</b> ).	x						Not started .
<b>5.5.8.</b> Encourage research into possible sustainable economic uses of Juniper as a means to encourage an expansion in the area of semi-natural Juniper vegetation and to enhance management of existing areas ( <b>CCW, EN, FC, SNH</b> ).	x						Not started .
<b>5.6.1.</b> Ensure that the significance of Juniper, the threats to it and suitable management to maintain it are publicised, particularly in relation to the different land management systems in which it occurs – forestry, agriculture, and recreation (the latter including deer stalking and shooting estates). ( <b>CCW, EN, FC, MAFF, SNH, SOAEFD, WOAD</b> ).	x					x	
<b>5.6.2.</b> Support a publication on the significance to biodiversity of montane scrub woodland including Juniper as a component ( <b>CCW, EN, FC, SNH</b> ).	x					x	Ongoing
<b>5.6.3.</b> Continue and expand the exchange of information on the ecology and habitat requirements of Juniper with European counterparts ( <b>CCW, EN, SNH</b> ).	x						Not started.
<b>5.7.1</b> This action plan should be considered in conjunction with the habitat action plans for native pine woodland, upland heathland, lowland calcareous grassland and maritime cliff and slopes, and with the species action plan for twinflower.	x						Not started.

**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							x
Brief text description justifying assessment of status: (~ no more than 100 words for each country/region)							
<p>England: Repeat survey work by Lena Ward in at least some areas of England (for example the North East) has shown a decline in both the number of stands and the numbers of individual plants of juniper. Local surveys in Southern England and the North East have also confirmed that the age structure of stands has changed, with older, moribund plants making up the majority of many populations and recruitment being poor or non-existent. So far efforts to boost natural regeneration/recruitment rates have met with mixed success.</p> <p>Wales: CCW have assembled historical locality and abundance data from various Districts in Wales, using information from vice-county recorders, the National Museum and Galleries of Wales and CCW files. These show predominantly old and isolated plants in mid and West Wales, major declines on the south Gower and a mix of population attributes in north Wales, ranging from locally strong, elderly and moribund and several (principally montane sites) of uncertain status.</p> <p>Scotland: The only local survey that has taken place, in the Borders, has also confirmed that populations there are moribund with no recruitment.</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.

Numerous initiatives for Juniper already existed prior to the publication of the plan; action is therefore being taken under an number of plan headings, some of which are detailed below. Co-ordination of these activities along with the implementation of national policy initiatives for the species are therefore the priority for the Lead Partner and Lead Agency. Work has begun on these elements of implementation, with a review of current conservation initiatives and proposals for action produced by Plantlife (as part of a project jointly funded by English Nature, during partly on information supplied by EN local staff) in 1999, an England implementation group planning to meet early in 2000 and plans being developed for a symposium on the species to focus effort in an efficient way on delivering the action plan.

It is as yet too early to assess the impact of the plan on the conservation of the species or to report in a meaningful way on the obstacles likely to be encountered; although the resources needed to implement the plan in full are substantial and do not appear likely to be available in full unless a Champion of the species can be found. The differing requirements of the species in different parts of its range may also make the co-ordination of an effective project difficult.

**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	R. Davis	Johnathan Humphrey
Organisation	Plantlife	Forestry Commission
Assessment date (dd/mm/yy)	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 the present range and overall population size of Juniper.				
Country	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):					
<p><b>All Countries:</b> A number of the initiatives referred to in this form, including site safeguard review and site management action and guidance should contribute to the maintenance of the range and population size of the species. However, the results are variable and it is as yet too early to make an assessment of progress. The ageing of whole populations as a result of failures in regeneration will make this target challenging, particularly in the short term.</p>					

Objective/target (For new or revised targets please provide the new paragraph number and target text.)	4.2. Restore appropriate management to permit regeneration at all sites under direct conservation management, where the present condition of the population gives cause for concern.				
Country	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):					
<p><b>England:</b> Some progress has been made in England. SAC sites which include stands of Juniper have been notified, including Chiltern Beech Woods, Ingleborough Complex, Moor House – Upper Teesdale, Morecombe Bay Pavements and Salisbury Plain. Regeneration projects are underway in Durham/Upper Teesdale, Gloucestershire, New Forest, Hertfordshire, Wiltshire and the Yorkshire Dales. The North Downs Natural Area has been targetted as an area where the restoration of appropriate management for Juniper is a priority.</p>					
<p><b>Wales and Scotland:</b> It is too early in plan implementation to make an assessment of progress towards this target.</p>					

<b>Objective/target</b> (For new or revised targets please provide the new paragraph number and target text.)	<b>4.3.</b> Maintain, or re-establish, populations at sites not under direct conservation management.				
<b>Country</b>	<b>Not appropriate</b>	<b>Target achieved</b>	<b>Some progress</b>	<b>No progress</b>	<b>Insufficient information</b>
<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):					
<p><b>England:</b> Efforts are being made to restore appropriate management to populations of Juniper in EN Natural Areas 5 and 6 (Northumberland) and the North Downs Natural Area has been targetted by EN as another area where action should be taken (presumably inside and outside sites under direct conservation management). It is probably too early to judge the success of these efforts, however, given the long-lived nature of the species and the long lead-in time in judging the impacts of conservation action.</p> <p><b>Wales and Scotland:</b> It is too early in plan implementation to make an assessment of progress towards this target.</p>					

<b>Objective/target</b> (For new or revised targets please provide the new paragraph number and target text.)	<b>4.4.</b> Restore representative tree line Juniper populations.				
<b>Country</b>	<b>Not appropriate</b>	<b>Target achieved</b>	<b>Some progress</b>	<b>No progress</b>	<b>Insufficient information</b>
<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):					
<p><b>England:</b> In England, efforts are being made to restore tree-line Juniper to areas of Northumberland (Natural Area 4) and in the Lake District on Helvellyn and Skiddaw Group SSSI in partnership with Lake District National Authority. It is probably too early to judge the success of these efforts, however, given the long-lived nature of the species and the long lead-in time in judging the impacts of conservation action.</p> <p><b>Wales and Scotland:</b> It is too early in plan implementation to make an assessment of progress towards this target.</p>					

**Table B: Proposed actions (Copiable table)**

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

<b>Published action/organisation(s) responsible</b> (For new or revised actions please provide the new paragraph number and action text.)	<b>5.1.1.</b> Use the FC Woodland Grant Scheme as a means to maintain populations within the woodland context. This includes measures to encourage the restoration of sub-alpine scrub with Juniper where appropriate as the upper limit to native woodland schemes ( <b>FC, SNH</b> ).
<b>Work plan/organisation(s) responsible</b> (Summary of work plan agreed by the steering group, broken down by year if possible.)	

<b>Action/workplan undertaken?</b> (Please state yes or no.)	Yes	
<b>Description of work taken and organisation responsible</b>	<i>Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.</i>	
<b>Output and timescale</b>	Schemes have been funded where Juniper is a component of existing woodlands: a) New woodlands include 10% scrub component in which Juniper is featured. B) Pine wood management grants where Juniper forms an element of the woodland.	Action by FC
<b>Constraints to action</b> (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.)		
<b>Action complete or ongoing?</b> (Please state yes, not started, or ongoing.)	Ongoing	
<b>Next steps</b>	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
<b>Output and timescale</b>		Action by

<b>Published action/organisation(s) responsible</b> (For new or revised actions please provide the new paragraph number and action text.)	<b>5.2.1.</b> Consider the best examples of Juniper habitat which meets local or national criteria for notification of SSSIs ( <b>CCW, EN, SNH</b> ).	
<b>Work plan/organisation(s) responsible</b> (Summary of work plan agreed by the steering group, broken down by year if possible.)	As stated.	
<b>Action/workplan undertaken?</b> (Please state yes or no.)	Yes	
<b>Description of work taken and organisation responsible</b>	<i>Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.</i>	
<b>Output and timescale</b>	<b>England:</b> Under consideration by EN currently.	Action by EN
<b>Constraints to action</b> (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.)		
<b>Action complete or ongoing?</b> (Please state yes, not started, or ongoing.)	Ongoing	
<b>Next steps</b>	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
<b>Output and timescale</b>	To be determined by forthcoming Steering Groups.	Action by Country Agencies.

<b>Published action/organisation(s) responsible</b> (For new or revised actions please provide the new paragraph number and action text.)	<b>5.2.2.</b> Assess site management in reserves and designated sites where Juniper exists and ensure that site management permits the natural regeneration of Juniper, at least in part ( <b>CCW, EN, FC, SNH</b> ).	
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<b>Work plan/organisation(s) responsible</b> (Summary of work plan agreed by the steering group, broken down by year if possible.)	
<b>Action/workplan undertaken?</b> (Please state yes or no.)	Yes
<b>Description of work taken and organisation responsible</b>	<i>Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.</i>
<b>Output and timescale</b>	<p><b>England:</b> EN targets have been set for Natural Areas with regard to Juniper. These have been actively pursued in north east, north west and southern England. Juniper scrub has also been incorporated in local BAP targets in Durham, Hampshire and within the West Sussex chalk grassland HAP. Site management for Juniper is also known to take place already in numerous nature reserves and SSSIs.</p> <p><b>Scotland:</b> Certain reserves and SSSI were designated primarily for juniper and management initiatives have taken place (although not necessarily in response to the plan).</p> <p><b>Wales:</b> The majority of Juniper sites are on SSSIs, where management plans are currently being written to a timescale of 2002 and many sites are on NNRs where there is more direct management of the factors affecting population .</p> <p><i>Action by</i> EN, Local Biodiversity Initiatives, Local Authorities, Wildlife Trusts.</p>
<b>Constraints to action</b> (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><b>England:</b> many initiatives, but no unifying framework outside EN's own Natural Area system and in some areas no assessment of best practice (eg in southern and central England).</p> <p>At present no audit of sites to ensure that there are no significant gaps in management of reserves which support this species.</p> <p><b>Wales:</b> There is still inadequate data on the size, age-structure and sex-ratios of most colonies</p>
<b>Action complete or ongoing?</b> (Please state yes, not started, or ongoing.)	Ongoing
<b>Next steps</b>	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>
<b>Output and timescale</b>	<p>Develop a timetable of action as part of work programme, to include Agency assessment of management on SSSIs and provision of suitable guidance to local teams, dissemination of guidance through local biodiversity initiatives.</p> <p><i>Action by</i> CCW, EN, FC, SNH, Local Authorities, Wildlife Trusts etc.</p>

<b>Published action/organisation(s) responsible</b> (For new or revised actions please provide the new paragraph number and action text.)	<b>5.2.3.</b> Maintain existing populations outside SSSIs wherever possible by encouraging landowners to manage their land in ways that encourage Juniper, and by offering advice and practical assistance to enable such management ( <b>CCW, EN, FC, MAFF, SNH, SOAEFD, WOAD</b> ).
<b>Work plan/organisation(s) responsible</b> (Summary of work plan agreed by the steering group, broken down by year if possible.)	
<b>Action/workplan undertaken?</b> (Please state yes or no.)	Yes
<b>Description of work taken and organisation responsible</b>	<i>Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.</i>

<b>Output and timescale</b>	<b>England:</b> numerous management initiatives outside SSSIs, as yet uncoordinated.  <b>Wales:</b> The Tir Gofal agrienvironment scheme will prioritise BAP species and should include some of the sites for Juniper outside SSSIs in the first few years of work.	<i>Action by</i> Land owners, Local Authorities, Wildlife Trusts
<b>Constraints to action</b> <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>	<b>England:</b> advice on best practice not yet available for all areas/habitat types, though some guidance has been produced on conservation of the species in the North East for England Nature (EN Report 152, S J Clifton, D S Ranner, and L Ward, The Conservation of Juniper in Northumbria, published 1995).  <b>Wales:</b> Funding restrictions limit the number of successful Tir Gofal applicants	
<b>Action complete or ongoing?</b> <i>(Please state yes, not started, or ongoing.)</i>	Ongoing	
<b>Next steps</b>	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
<b>Output and timescale</b>	Development of timetable for action as part of work programme, to include assessment of best practice, provision of management advice through local biodiversity initiatives etc.	<i>Action by</i> CCW, EN, FC, Local Authorities, MAFF, Plantlife, SNH, SOAEFD, WOAD, Wildlife Trusts.

<b>Published action/organisation(s) responsible</b> <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	<b>5.3.1.</b> Assess the desirability of reintroducing Juniper at former sites in the regions of the UK in which the species has significantly declined . Undertake trial reintroduction where appropriate ( <b>CCW, EN, SNH</b> ).	
<b>Work plan/organisation(s) responsible</b> <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>		
<b>Action/workplan undertaken?</b> <i>(Please state yes or no.)</i>	Yes	
<b>Description of work taken and organisation responsible</b>	<i>Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.</i>	
<b>Output and timescale</b>	<b>England:</b> Various re-introductions and introductions of the species have taken place, the success of which could be assessed to determine best practice should further such action be deemed desirable. FC England have provided WGS annual management grant for the expansion of remnant Juniper over 60 ha in Teesdale and for 3 ha of new planting of Juniper in the same area. The above work has been carried out in conjunction with EN.  <b>Wales:</b> The Great Orme country park has taken up proposals to plant out native Juniper on some scrubbed-up land when clearance is achieved (in the next 3-5 years)	<i>Action by</i> EN, FC, ITE, Local Authorities,
<b>Constraints to action</b> <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>	<b>Wales:</b> In Wales effective control of grazing and fire management etc is seen as a priority over translocations	
<b>Action complete or ongoing?</b> <i>(Please state yes, not started, or ongoing.)</i>	Ongoing	

<b>Next steps</b>	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
<b>Output and timescale</b>	Assess whether re-introductions and introductions are an appropriate mechanism for the conservation of this species.	Action by Country Groups/UK Group when established.

<b>Published action/organisation(s) responsible</b> <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	<b>5.4.1.</b> Advise relevant landowners and managers of the presence and importance of Juniper, and of the appropriate management for its conservation ( <b>CCW, EN, FC, MAFF, SNH, </b> ).	
<b>Work plan/organisation(s) responsible</b> <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>		
<b>Action/workplan undertaken?</b> <i>(Please state yes or no.)</i>	Yes	
<b>Description of work taken and organisation responsible</b>	<i>Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.</i>	
<b>Output and timescale</b>	<p><b>England:</b> advice known to be provided in some areas, for example in Gloucestershire, where the species has been incorporated into local SMSs; and in Chilterns where work has been undertaken with a number of land owners. Also publication of advice directed at land owners and managers in ENACT by EN. However, the extent of the provision of advice is unknown, and the inadequate current funding of Wildlife Site Projects, Countryside Management Projects and other schemes for contacting land managers outside SSSIs must limit this.</p> <p><b>Wales:</b> SSSI and NNR owner / occupiers are frequently aware of the management needs of Juniper from site visits and notification documents (lists of PDOs) etc.</p>	Action by EN, Local Authorities, Wildlife Trusts.
<b>Constraints to action</b> <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>	<p><b>England:</b> Inadequate current funding of Wildlife Site Projects, Countryside Management Projects and other schemes for contacting land managers outside SSSIs will hinder proper dissemination of information on best practice.</p> <p><b>Wales:</b> There is not enough autecological information on Juniper for CCW to advise on the best management of some sites (eg. isolated sea-cliff populations)</p>	
<b>Action complete or ongoing?</b> <i>(Please state yes, not started, or ongoing.)</i>	Ongoing	
<b>Next steps</b>	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
<b>Output and timescale</b>	Ensure guidance on best practice is available, disseminate through Countryside Agencies, FC, local biodiversity initiatives.	Action by Country Groups/UK Group when established; EN, FC, CCW, SNH, local authorities, Wildlife Trusts.

<b>Published action/organisation(s) responsible</b> <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	<b>5.4.3.</b> Develop and issue best practice guidance to encourage the maintenance and regeneration of Juniper in woodland communities ( <b>CCW, EN, FC, SNH</b> ).	
<b>Work plan/organisation(s) responsible</b> <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>	As stated	

<b>Action/workplan undertaken?</b> (Please state yes or no.)		
<b>Description of work taken and organisation responsible</b>	Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.	
<b>Output and timescale</b>	<b>England:</b> EN Report 152, S J Clifton, D S Ranner, and L Ward, The conservation of Juniper in Northumbria published 1995.	Action by EN
<b>Constraints to action</b> (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.)		
<b>Action complete or ongoing?</b> (Please state yes, not started, or ongoing.)	Ongoing	
<b>Next steps</b>	Please outline future action/work including an indication of expected output, timescale and organisation responsible.	
<b>Output and timescale</b>		Action by

<b>Published action/organisation(s) responsible</b> (For new or revised actions please provide the new paragraph number and action text.)	<b>5.4.4.</b> Develop and issue best practice guidance to encourage the restoration of treeline scrub woodland , with Juniper as a component ( <b>CCW, EN, FC, SNH</b> ).	
<b>Work plan/organisation(s) responsible</b> (Summary of work plan agreed by the steering group, broken down by year if possible.)		
<b>Action/workplan undertaken?</b> (Please state yes or no.)	Yes	
<b>Description of work taken and organisation responsible</b>	Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.	
<b>Output and timescale</b>	<b>Scotland:</b> Scotland guidance note produced entitled ‘Treeline woodlands and the woodland grant scheme’ in which Juniper is featured. This has been produced for internal use but could be circulated more widely at the discretion of conservation staff.	Action by FC
<b>Constraints to action</b> (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.)		
<b>Action complete or ongoing?</b> (Please state yes, not started, or ongoing.)	Ongoing	
<b>Next steps</b>	Please outline future action/work including an indication of expected output, timescale and organisation responsible.	
<b>Output and timescale</b>		Action by

<b>Published action/organisation(s) responsible</b> (For new or revised actions please provide the new paragraph number and action text.)	<b>5.5.1.</b> Review the taxonomic status of subspecies <i>hemisphaerica</i> and intermediates ( <b>CCW, EN, SNH</b> ).	
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<b>Work plan/organisation(s) responsible</b> <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>	As stated	
<b>Action/workplan undertaken?</b> <i>(Please state yes or no.)</i>	Yes.	
<b>Description of work taken and organisation responsible</b>	<i>Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.</i>	
<b>Output and timescale</b>	<b>UK:</b> Seed from different taxa sent to Kew Millennium Seedbank; cuttings being grown. Cambridge University Botanic Garden PhD project investigating the taxonomy and population genetics of Juniper.	Action by Cambridge University Botanic Gardens, RBGKew.
<b>Constraints to action</b> <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>		
<b>Action complete or ongoing?</b> <i>(Please state yes, not started, or ongoing.)</i>	Ongoing	
<b>Next steps</b>	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
<b>Output and timescale</b>	To be determined.	Action by CCW, EN, SNH, Cambridge University Botanic Gardens, RBGKew.

<b>Published action/organisation(s) responsible</b> <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	<b>5.5.3.</b> Develop and carry out a programme for a regional survey to assess the extent, age range, and reproductive potential of Juniper populations. These should then be classified according to the risk of loss and potential for survival. Use the results of this survey to set priorities for regional action to maintain and, where necessary, restore populations ( <b>CCW, EN, SNH</b> ).	
<b>Work plan/organisation(s) responsible</b> <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>		
<b>Action/workplan undertaken?</b> <i>(Please state yes or no.)</i>	Yes	
<b>Description of work taken and organisation responsible</b>	<i>Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.</i>	

<b>Output and timescale</b>	<p><b>England:</b> Survey work has been undertaken in North East England, Lake District, Kent, Chilterns, Oxfordshire, on MOD land etc.</p> <p><b>Scotland:</b> Mapping of community containing <i>Juniperus communis</i> spp <i>nana</i>; survey of <i>Juniperus communis</i> spp <i>communis</i> in South East Scotland by the Borders Forest Trust.</p> <p><b>Wales:</b> Collation of all records by National Museum and Galleries of Wales, surveys by CCW, University College Bangor.</p> <p>Plantlife developing guidelines for survey method during 1999 which could be used nationally (as part of a project jointly funded by EN)</p>	<p>Action by BSBI, CCW, EN, ITE, Local Authorities, MOD, NMGW, Plantlife, Wildlife Trusts.</p>
<b>Constraints to action</b> (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>No common survey methodology therefore results may not be comparable</p> <p>Limited resources in the past to undertake large-scale surveys of declining but still relatively widespread species.</p>	
<b>Action complete or ongoing?</b> (Please state yes, not started, or ongoing.)	Ongoing	
<b>Next steps</b>	Please outline future action/work including an indication of expected output, timescale and organisation responsible.	
<b>Output and timescale</b>	Develop survey method as above; prioritise areas for survey and ensure adequate funding for local initiatives to undertake work.	<p>Action by BSBI, CCW, EN, Local Biodiversity Initiatives, Plantlife, SNH</p>

<b>Published action/organisation(s) responsible</b> (For new or revised actions please provide the new paragraph number and action text.)	<b>5.5.4.</b> Identify suitable areas where new populations of Juniper can be established to contribute to habitat biodiversity, and to replace unavoidable losses of existing populations (CCW, EN , SNH).	
<b>Work plan/organisation(s) responsible</b> (Summary of work plan agreed by the steering group, broken down by year if possible.)		
<b>Action/workplan undertaken?</b> (Please state yes or no.)	Yes	
<b>Description of work taken and organisation responsible</b>	Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.	
<b>Output and timescale</b>	<p><b>England:</b> Some populations of Juniper have been established as part of habitat restoration schemes, eg ITE plantings at Twyford Down.</p>	<p>Action by ITE</p>
<b>Constraints to action</b> (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.)	Work not as yet co-ordinated.	
<b>Action complete or ongoing?</b> (Please state yes, not started, or ongoing.)	Ongoing	

<b>Next steps</b>	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
<b>Output and timescale</b>	To be determined.	Action by CCW, EN , SNH

<b>Published action/organisation(s) responsible</b> <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	<b>5.5.5.</b> Undertake research into optimum levels of grazing disturbance and habitat management to encourage germination, regeneration, and development of Juniper (CCW, EN, FC, SNH).	
<b>Work plan/organisation(s) responsible</b> <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>		
<b>Action/workplan undertaken?</b> <i>(Please state yes or no.)</i>	Yes	
<b>Description of work taken and organisation responsible</b>	<i>Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.</i>	
<b>Output and timescale</b>	<p><b>England:</b> experimental management undertaken and monitored at several sites including some in the Chilterns and West Sussex. Conference held in 1986 in Teesdale on conservation of Juniper.</p> <p><b>Scotland:</b> Forest Research have results from Juniper establishment/trials to analyse. Report to be produced by March 2001.</p> <p><b>Wales:</b> some comparisons of management on apparently regenerating and apparently senescent populations by CCW site managers (eg South Gower Wardens)</p>	Action by EN, Local Authorities.
<b>Constraints to action</b> <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>	Not co-ordinated therefore no comparison of results, no idea yet of best practice, no optimisation of experimental design.	
<b>Action complete or ongoing?</b> <i>(Please state yes, not started, or ongoing.)</i>	Ongoing	
<b>Next steps</b>	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
<b>Output and timescale</b>	Use Juniper symposium to exchange ideas, develop a timetable for research action, seek funding if appropriate	Action by FC, Plantlife, Country and UK Groups when constituted.

<b>Published action/organisation(s) responsible</b> <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	<b>5.5.6.</b> Review method for establishing Juniper (CCW, EN, FC,SNH).	
<b>Work plan/organisation(s) responsible</b> <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>		
<b>Action/workplan undertaken?</b> <i>(Please state yes or no.)</i>	Yes	

<b>Description of work taken and organisation responsible</b>	<i>Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.</i>	
<b>Output and timescale</b>	<p><b>England:</b> Plantlife and English Nature are collating information on attempts to establish Juniper and on living collections of the species. Plants have been cultivated at numerous botanic gardens, re-establishments have been attempted, and experimental attempts to encourage increased natural regeneration have been undertaken (see above). The results so far show varying success.</p> <p><b>Scotland:</b> Forest Research have results from Juniper establishment/trials to analyse. Report to be produced by March 2001.</p> <p><b>Wales:</b> a few small-scale cultivation and translocation experiments but no systematic work.</p>	Action by Botanic Gardens, EN, Local Authorities, Plantlife, Wildlife Trusts
<b>Constraints to action</b> <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>	As yet no co-ordination of efforts.  Not all regeneration/propagation efforts have been successful (eg Levin Down SSSI).	
<b>Action complete or ongoing?</b> <i>(Please state yes, not started, or ongoing.)</i>	Ongoing	
<b>Next steps</b>	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
<b>Output and timescale</b>	Continue current collation on information and use symposium to review initiatives.	Action by FC, Plantlife, Country and UK Groups when established.

<b>Published action/organisation(s) responsible</b> <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	<b>5.6.1</b> Ensure that the significance of Juniper, the threats to it and suitable management to maintain it are publicised, particularly in relation to the different land management systems in which it occurs – forestry, agriculture, and recreation (the latter including deer stalking and shooting estates). ( <b>CCW, EN, FC, MAFF, SNH, SOAEFD, WOAD</b> ).	
<b>Work plan/organisation(s) responsible</b> <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>		
<b>Action/workplan undertaken?</b> <i>(Please state yes or no.)</i>	Yes	
<b>Description of work taken and organisation responsible</b>	<i>Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.</i>	

<b>Output and timescale</b>	<b>England:</b> EN have published articles in Enact (1997), produced leaflet for upland areas, undertaken guided walks. MOD have publicised work on Juniper on MOD land.  <b>Scotland:</b>  <b>Wales:</b>	Action by EN, MOD.
<b>Constraints to action</b> <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>		
<b>Action complete or ongoing?</b> <i>(Please state yes, not started, or ongoing.)</i>	Ongoing	
<b>Next steps</b>	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
<b>Output and timescale</b>	To be determined.	Action by CCW, EN, FC, MAFF, SNH, SOAEFD, WOAD

<b>Published action/organisation(s) responsible</b> <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	<b>5.6.2.</b> Support a publication on the significance to biodiversity of montane scrub woodland including Juniper as a component ( <b>CCW,EN, FC,SNH</b> ).	
<b>Work plan/organisation(s) responsible</b> <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>		
<b>Action/workplan undertaken?</b> <i>(Please state yes or no.)</i>	Yes	
<b>Description of work taken and organisation responsible</b>	<i>Please provide details of progress to date, including information about outputs, deadlines, which organisations and where action is being undertaken.</i>	
<b>Output and timescale</b>	"Text written and photographs selected by Montane Scrub Action Group (NGO partnership) and booklet now being prepared for publication in 2000 by SNH."	Action by Montane Scrub Group
<b>Constraints to action</b> <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>		
<b>Action complete or ongoing?</b> <i>(Please state yes, not started, or ongoing.)</i>	Ongoing	
<b>Next steps</b>	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
<b>Output and timescale</b>		Action by