



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	Bembecia chrysidiformis - Fiery clearwing
Lead Partner/Agency	Butterfly Conservation/English Nature (Contact Point - EN)
Steering Group/Other organisations	White Cliffs Countryside Project, and a local entomologist (T Rouse, who has undertaken most of the survey work on this species)
Work programme in existence?	Annual work programme prepared each year.

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 populations at all known sites.		T				Continued losses of sites.
4.2 Enhance the population size at all known sites by 2010.		T				Work in hand at several sites.

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 work plan 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 Where appropriate, include the requirements of the species when preparing or revising prescriptions for environment schemes.		T					Yes
5.1.2 Address the requirements of the fiery clearwing in relevant Shoreline Management Plans.		T					Not started
5.2.1 Increase the available habitat on the known sites and in adjacent sites, and attempt to link up		T				T	Ongoing.

	existing fragments of habitat.						
5.2.2	Where possible, ensure that occupied and nearby potential habitat is appropriately managed by 2001, for example through agri-environment scheme management agreements.	T					Ongoing.
5.2.3	Ensure that the habitat requirements of the fiery clearwing are taken into account in relevant development policies, plans and proposals.	T					Ongoing
5.2.4	Ensure that existing populations do not become fragmented by management practices or development.	T				T	Ongoing
5.2.5	Establish new populations at secure sites where appropriate habitat exists or can be created	T				T	Ongoing
New objective							
5.4.1	Advise landowners and managers of the presence of the species and the importance of beneficial management for its conservation.	T					Ongoing
5.5.1	Map the precise areas of occupancy of the fiery clearwing and monitor the populations annually.	T				T	On going.
5.5.2	Investigate all new records of the species occurrence within the UK and all reports of potentially suitable habitat to locate any overlooked colonies of the moth.	T				T	Ongoing.
5.5.3	Regularly assess potential sites to monitor the effectiveness of management agreements.	T					Ongoing
5.5.4	Conduct targeted autecological research to inform habitat management.	T					Ongoing
5.5.5	Pass information gathered during survey and monitoring of this species to a central database for incorporation in national and international databases.	T					Yes
5.5.6	Encourage research on the ecology and conservation of this species on an international level, and use the experience gained towards its conservation in the UK.	T					No
5.6.1	Promote opportunities for the appreciation of the species and the conservation issues associated with its habitat. The need to protect species such as the fiery clearwing from irresponsible collecting should be emphasised. This should be achieved through articles within	T					No

appropriate journals, as well as by publicity leaflets.							
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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>					T		
<i>Northern Ireland</i>							
<i>Scotland</i>							
<i>Wales</i>							

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

Pre-1999 all recent reports of this species were from a metapopulation between Folkestone and Dover, consisting of 8 sub-populations. Four of these have been damaged or destroyed due to various factors (tidal erosion, access by vehicles to shingle, laying of sewage pipelines, and possibly collecting by entomologists). The good news is that:

1. A new programme of scrub-clearance at Folkestone in providing new habitat.
2. A new population has been established at a locality that is less likely to receive the attentions of collectors.
3. A new population has been discovered this year in North Kent.

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.

Although only a recently published Action Plan, this species has benefited from English Natures Species Recovery Programme funding for 3 years, hence much work is already in hand. In the core area of the moths distribution, S Kent, key targets are not being met as sub-populations of this moth have either become extinct or have been badly damaged. There have been a number of problems. Coastal erosion has destroyed one sub-population, and may affect others. A further two sub-populations have been damaged by a development, and collection by entomologists appears to have resulted in the demise of a further small sub-population. (Moths are collected by up-rooting whole dock plants, as the larvae burrow within the dock roots. On areas with a limited supply of food plant this can be damaging).

The provision of additional money to EN for habitat management is going to enable large areas of scrub clearance within Folkestone Warren and Samphire Hoe (which support 5 of the remaining sub-populations).

This year an introduction to a new site has started, in an area which is not known to collectors. This experiment is not being publicised.

The discovery of an extensive population in the North Kent Marshes means that there is a need for much more extensive programme of survey across the former range of this moth.

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	Brian Banks, Mark Parsons	Dave Stone (species co-ordinator)
Organisation	English Nature/Butterfly Conservation	English Nature
Assessment date (dd/mm/yy)	29.9.1999	30 September 1999

Completed forms should be submitted to JNCC

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Joint Nature Conservation Committee
Monkstone House
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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 countryBspecific 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 population size at all known sites.			
Country	Not appropriate	Target achieved	Some progress	No progress	Insufficient information
<i>UK</i>					
<i>England</i>				T	
<i>Northern Ireland</i>					
<i>Scotland</i>					
<i>Wales</i>					
Text description of target progress (separate for each country/region): Loss, or severe reduction in numbers at 4 out of 8 sub-populations within the S Kent meta-population, due to tidal erosion, damage to shingle vegetation by vehicles, laying of pipeline, and collection of moths.					

Objective/target <i>(For new or revised targets please provide the new paragraph number and target text.)</i>		4.2 Enhance the population size at all known sites by 2 010.			
Country	Not appropriate	Target achieved	Some progress	No progress	Insufficient information
<i>UK</i>					
<i>England</i>			T		
<i>Northern Ireland</i>					
<i>Scotland</i>					
<i>Wales</i>					
Text description of target progress (separate for each country/region): Ongoing clearance of scrub at the S Kent metapopulation should in time result in an increase in numbers.					

Table B: Proposed actions (Copiable table)

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

<p>Published action/organisation(s) responsible (For new or revised actions please provide the new paragraph number and action text.)</p>	<p>5.2.1 Increase the available habitat on the known sites and in adjacent sites, and attempt to link up existing fragments of habitat.</p>	
<p>Work plan/organisation(s) responsible (Summary of work plan agreed by the steering group, broken down by year if possible.)</p>	<p>English Nature. White Cliffs Countryside Project. Local entomologist.</p>	
<p>Action/work plan undertaken? (Please state yes or no.)</p>	<p>Yes</p>	
<p>Description of work taken and organisation responsible.</p>	<p>1998 Clearance of 0.4ha of scrub at Folkestone Warren. 1999 Clearance of scrub and mowing of rank grassland (total area c 1ha) at Folkestone Warren and Samphire Hoe – ongoing Increased area of suitable habitat available to link some metapopulations.</p>	
<p>Output and timescale</p>	<p>Increased area of suitable habitat available to link some metapopulations.</p>	<p>Action by EN/WCC P/local entomologist</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>Some of the sites are located on main railway line, requiring training for conservationists entering such areas.</p> <p>Resources - a lot of scrub clearance is needed at Folkestone Warren, although increased funding is becoming available through EN.</p> <p>The difficulties of managing this site sustainably on a long-term basis by grazing. It is difficult area to fence, and with no recent history of grazing is likely to run into difficulties with local residents.</p>	
<p>Action complete or ongoing? (Please state yes, not started, or ongoing.)</p>	<p>Ongoing</p>	
<p>Next steps</p>	<p>Continued scrub clearance at Folkestone Warren, by same partners in 2000/2001. Areas yet to be agreed. There is an increasing need for a review of the potential for grazing on the site.</p> <p>Monitoring of impact of recent scrub clearance.</p> <p>Monitoring of effectiveness of scrub clearance - success in killing scrub, reappearance of dock seedlings, creation of the appropriate sparsely vegetated sward, and colonisation by moths. Further action to be decided dependent on results.</p> <p>Ensure that Tony Rouse participates in training with Railtrack for entry to mainline railways.</p>	
<p>Output and timescale</p>		<p>EN/WCC P/local entomologist.</p>

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

<p>Published action/organisation(s) responsible (For new or revised actions please provide the new paragraph number and action text.)</p>	<p>5.2.4 Ensure that existing populations do not become fragmented by management practices or development.</p>	
<p>Work plan/organisation(s) responsible (Summary of work plan agreed by the steering group, broken down by year if possible.)</p>	<p>English Nature</p>	
<p>Action/work plan undertaken? (Please state yes or no.)</p>	<p>Yes</p>	
<p>Description of work taken and organisation responsible.</p>	<p>EN to ensure any potential developers are aware of the presence of the moth.</p> <p>Dealing with proposals for development as they arise.</p> <p>1997 Liaison with Southern Water over proposals to string together pipeline on old railway sidings. This resulted in disturbance and relocation of one large sub-population to another site. A further sub-population was to be left undisturbed. Work required to improve sewage disposal standards.</p> <p>1999 Damage reported to the small sub-population, due to pipeline work. Meetings currently in hand with developers to assess future action.</p> <p>Avoidance of damage to moth habitat.</p>	
<p>Output and timescale</p>		<p>Action by</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>Difficulties encountered ensuring that contractors keep to agreed work and in particular avoid damage to shingle vegetation.</p>	
<p>Action complete or ongoing? (Please state yes, not started, or ongoing.)</p>	<p>Ongoing</p>	
<p>Next steps</p>	<p>Proactive contact required with developers who own sites to ensure that they are more involved in protecting moth, and building its requirements into their plans.</p>	
<p>Output and timescale</p>	<p>Meet Dover Harbour Board and Railtrack in 2000.</p>	<p>Action by EN</p>

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

<p>Published action/organisation(s) responsible (For new or revised actions please provide the new paragraph number and action text.)</p>	<p>5.5.1 Map the precise areas of occupancy of the fiery clearwing and monitor the populations annually.</p>	
<p>Work plan/organisation(s) responsible (Summary of work plan agreed by the steering group, broken down by year if possible.)</p>	<p>English Nature (contracted out to local entomologist) 1996-1999</p>	
<p>Action/work plan undertaken? (Please state yes or no.)</p>	<p>Yes</p>	
<p>Description of work taken and organisation responsible.</p>	<p>1 Survey of Folkestone/Dover area to locate remaining colonies of the fiery clearwing moth. 2. Monitoring of populations to determine health of populations. 3. <i>Annual reports documenting known sites, and numbers of moths seen during each year</i></p>	
<p>Output and timescale</p>		<p><i>EN (through consultant) part funded by Railtrack.</i></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><i>Some populations occur on active railway line, making it difficult to access some areas.</i></p> <p><i>Limited resources of survey.</i></p>	
<p>Action complete or ongoing? (Please state yes, not started, or ongoing.)</p>	<p>Ongoing</p>	
<p>Next steps</p>	<p><i>Continued monitoring of known populations in S Kent.</i></p> <p><i>Survey of remaining areas of railway line at Dover, the north Kent coast, and other areas outside of Kent with old records of this moth.</i></p> <p><i>Continued output of annual monitoring/survey reports</i></p>	
<p>Output and timescale</p>		<p><i>Action by EN</i></p>

<p>Published action/organisation(s) responsible (For new or revised actions please provide the new paragraph number and action text.)</p>	<p>5.5.2 Investigate all new records of the species occurrence within the UK and all reports of potentially suitable habitat to locate any overlooked colonies of the moth.</p>	
<p>Work plan/organisation(s) responsible (Summary of work plan agreed by the steering group, broken down by year if possible.)</p>	<p>English Nature - through consultant/Butterfly Conservation</p>	
<p>Action/work plan undertaken? (Please state yes or no.)</p>	<p>Yes</p>	
<p>Description of work taken and organisation responsible.</p>	<p>As detailed in previous section survey has mapped known breeding sites between Folkestone and Dover.</p> <p>A new population, reported in N Kent in 1999 has been visited.</p> <p>Former sites at Southend, Hayling Island and Eastbourne have been surveyed but the species was not found.</p> <p>Annual survey reports</p>	
<p>Output and timescale</p>		<p>EN through consultant.</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>Difficulties in surveying mainline railway.</p> <p>Funding to support more extensive survey.</p>	
<p>Action complete or ongoing? (Please state yes, not started, or ongoing.)</p>	<p>Ongoing</p>	
<p>Next steps</p>	<p>Extensive survey of the N Kent marshes, and other areas outside of Kent. Campaign linked to new Butterfly Conservation/English Nature Action for threatened moths project to encourage further targeted survey for this species</p> <p>Survey report mapping any populations, suitable habitat, and numbers of moths seen.</p>	
<p>Output and timescale</p>		<p>Action by EN and Butterfly Conservation</p>

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

<p>Published action/organisation(s) responsible (For new or revised actions please provide the new paragraph number and action text.)</p>	<p>5.2.5 Establish new populations at secure sites where appropriate habitat exists or can be created</p>	
<p>Work plan/organisation(s) responsible (Summary of work plan agreed by the steering group, broken down by year if possible.)</p>	<p>English Nature - through consultant</p>	
<p>Action/work plan undertaken? (Please state yes or no.)</p>	<p>Yes</p>	
<p>Description of work taken and organisation responsible.</p>	<p>Project was initiated in 1999. Permission was received from the landowners, and adult moths and eggs were released in June this year.</p>	
<p>Output and timescale</p>	<p>New population of the moth hopefully established from 2000 onwards. Development of experience in introducing this species to new sites.</p>	<p>Action by Tony Rouse/EN</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>General shortage of appropriate habitat in a favourable condition.</p>	
<p>Action complete or ongoing? (Please state yes, not started, or ongoing.)</p>	<p>Ongoing</p>	
<p>Next steps</p>	<p>1 new population, to be monitored annually from 2000 onwards to assess success of project</p>	
<p>Output and timescale</p>	<p>Reports documenting outcome of project and reasons for success or failure</p>	<p>EN - through consultant</p>