

# **NORFOLK BIODIVERSITY PARTNERSHIP**

**Co-ordinator's Progress Report for the Period:  
30 October 2008 – 19 February 2009**



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### Introduction

This report presents a brief summary of the activities of the Biodiversity Co-ordinator over the period from 30 October 2008 to 19 February 2009. As with the previous progress reports, it is presented using the template from Natural England, which is now in use by a majority of LBAP partnerships across the country. Additional information is presented in a series of annexes: Annex 1 presents a summary of the issues addressed at recent Topic Group meetings; Annex 2 presents a summary of the recent project proposals considered by the Biodiversity Project Fund; Annex 3 presents information about forthcoming biodiversity events; and Annex 4 is a list of all the projects supported to date by the Fund.

### Highlights

Highlights during this period have included the following:

- **Membership:** Both Anglian Water and the University of East Anglia have accepted the invitation to become formal members of the Biodiversity Partnership, bringing total membership to 21. The two organisations bring a wealth of knowledge, expertise and experience to the Partnership. Anglian Water, for example, has developed a company BAP, played a key role in the Water for Wildlife programme and been actively involved in special projects such as the re-introduction of the pool frog; it is the first “corporate” member of the Partnership. UEA is actively involved in cutting-edge research on biodiversity as well as climate change, for example, through its School of Environmental Sciences, the School of History and the School of Biological Sciences.
- **Non-Native Species Initiative:** Mike Sutton-Croft has made excellent progress with his work on invasive non-native species. A centralised database has been developed in collaboration with the Norfolk Biodiversity Information Service (NBIS) and now holds over 1,000 records for the six priority species being addressed by this first phase of the project. A web page on invasive alien species has been developed for the biodiversity website and numerous articles have been prepared for a variety of publications. A stakeholders' forum was organised on 18 February, featuring national and local experts and bringing together over 60 participants. Nearly £12,000 has now been secured from Defra for demonstration control and eradication projects along the Rivers Waveney and Nar.

- LAA Indicators: In collaboration with NCC, NBIS and NWT, a considerable amount of time has been invested in promoting National Indicator 197 on local sites and developing the necessary reporting tools. NI 197 has raised the profile of County Wildlife Sites considerably, and already appears to be leading to enhanced targeting of local sites. Substantial effort has also gone into the development of the methodology, baseline and targets for Local Indicator 4.5 on ecological networks.
- Action Plans: In a particularly significant development, two action plans for bats have been prepared. The first plan is for the barbastelle bat, and has been developed under the auspices of the Farmland Topic Group; the second plan is a grouped plan, covering brown long-eared bat, noctule bat and soprano pipistrelle, developed under the umbrella of the Communities and Nature Topic Group. The preparation of both plans has been led by Catherine Greenhough, temporary ecologist at Norfolk County Council. A number of other action plans are also under development, including a Habitat Action Plan for Ponds.
- Brecks Biodiversity Audit and Action Plan: A meeting to discuss the proposed Brecks biodiversity audit was held on 9 February, involving nearly 20 people from a wide range of organisations from both Norfolk and Suffolk. Dr Paul Dolman from UEA gave a presentation about the proposed project, which seeks to collate available biodiversity data for the Brecks (particularly on invertebrates and plants), assess management effectiveness, and put forward management and research recommendations for the future. The study is seen as the first step towards the preparation of a Brecks BAP.
- Biodiversity Project Fund: Four new projects were approved in principle by the Biodiversity Project Fund over the reporting period, as follows:
  - Survey of the contorted pines of the Brecks;
  - Identifying the status of non-native species in Norfolk ponds – Towards a Species Action Plan for crucian carp
  - Wild about the Wensum
  - Cut-off channel management project

### **Priorities for the Next Four Months**

Priorities for the coming four months (March – June) will include:

- Assisting BTCV with the organisation of “Natural Neighbours” (the community wildlife conference), which is to be held on 7 March 2009;
- Working with NCC and NWT to submit the first annual progress report on National Indicator 197, due in March;

- Writing, designing and publishing the 2008/09 annual newsletter of the Biodiversity Partnership;
- Working with partners to finalise a number of new Species and Habitat Action Plans;
- Working with the Non-native Species Initiative to: prepare the Norfolk status report and action report; develop new control and eradication projects; organise an awareness-raising event at the Forum on 22 May (the International Day for Biological Diversity); and seek funding support for a second year of operation;
- Continuing to plan and make arrangements for the 10-year BAP review workshop, to be held on 23 June.

More information about the progress being made against the Partnership's "Core Services" is presented in the following table.

Scott Perkin  
Biodiversity Co-ordinator  
Norfolk Biodiversity Partnership

February 2009

## NORFOLK BIODIVERSITY PARTNERSHIP

### Summary of Progress

CORE SERVICES	SUCCESS MEASURES AND OUTPUTS	PROGRESS
<p><b>1. Establishing and maintaining a broad partnership</b></p> <ul style="list-style-type: none"> <li>As far as possible, ensure that all relevant sectors are engaged in the local biodiversity partnership.</li> </ul>	<ul style="list-style-type: none"> <li>Local partnership contains representatives from a wide range of sectors including, as far as possible and as appropriate: business and industry; agriculture; water; marine and coastal; forestry; education; and health. It also includes local government, NGOs and government agencies.</li> <li>Partnership meets regularly (at least three times per year) and fosters ownership of outcomes by all stakeholders.</li> </ul>	<ul style="list-style-type: none"> <li>I am delighted to report that both UEA and Anglian Water have accepted our invitation to become formal members of the Partnership, bringing total membership to 21 organisations.</li> <li>New and valuable relationships are being forged with several organisations with which the Partnership has not previously engaged, including CEFAS, the Sea Watch Foundation and the SeaLife Centres.</li> <li>A meeting of the Steering Group was held on 30 October 2008, and featured annual overview reports from all eight of the Partnership's Topic Groups.</li> </ul>
<p><b>2. Delivering BAP locally</b></p> <ul style="list-style-type: none"> <li>Where they do not already do so, ensure that local biodiversity objectives include spatially-explicit SMART targets for the delivery of habitats and species, taking into account national targets.</li> <li>Work with the partnership to agree a range of projects to deliver the local biodiversity objectives.</li> </ul>	<ul style="list-style-type: none"> <li>A prioritised list of biodiversity projects that incorporate spatially-explicit targets for the delivery of habitats and species and which, where possible, make links to social and economic objectives.</li> <li>Implementation of these projects and demonstration of progress towards local objectives.</li> </ul>	<ul style="list-style-type: none"> <li>The Partnership has continued to operate its Biodiversity Project Fund, which is used to support priority activities contained in the Action Plans. (For a description of projects supported over this period, please see the section on "Additional Services" below).</li> </ul>

CORE SERVICES	SUCCESS MEASURES AND OUTPUTS	PROGRESS
<p><b>3. Fund-raising for BAP delivery</b></p> <ul style="list-style-type: none"> <li>• Develop and implement a funding strategy to obtain national (e.g. HLF) and local sources of external funding in support of BAP projects and to obtain funding for the local biodiversity service in the long term.</li> <li>• Work with the regional biodiversity partnership in the development of funding for collaborative projects.</li> </ul>	<ul style="list-style-type: none"> <li>• Implementation of funding strategy to lever funds for biodiversity from external bodies and to secure long-term funding for biodiversity in the area.</li> </ul>	<ul style="list-style-type: none"> <li>• A funding application has been submitted to Norwich City Council for continued core support to the Biodiversity Partnership. Work has also commenced on an application to Broadland Council for the 2009/10 financial year.</li> <li>• Two proposals to Defra for the control of invasive alien species in the Nar and Waveney Valleys have been successful. These amounted to nearly £12,000, and were developed under the auspices of the Non-native Species Initiative.</li> <li>• Two proposals were submitted to Natural England's underspend, requesting support for a roadside bat survey and the Non-native Species Stakeholders' Forum.</li> </ul>
<p><b>4. Reporting and monitoring progress</b></p> <ul style="list-style-type: none"> <li>• Use the Biodiversity Action Reporting System (BARS) to report on the implementation and delivery of actions initiated locally.</li> </ul>	<ul style="list-style-type: none"> <li>• Progress is reported at least annually, and the LBAP contribution is fully reported in triennial national BAP reporting rounds.</li> <li>• Results of monitoring used to inform review of objectives and to set future directions. Undertake a review of the LBAP at least every 5 years seeking to ensure that it remains relevant and adapts to take into account any changes to national priority species, habitats and targets.</li> </ul>	<ul style="list-style-type: none"> <li>• A report for the 2008 national BAP reporting round was prepared on schedule and submitted via BARS.</li> <li>• Plans for the special ten-year review workshop on 23 June are now well advanced. This will be a full-day, facilitated event, open to all members of the Steering Group.</li> </ul>

CORE SERVICES	SUCCESS MEASURES AND OUTPUTS	PROGRESS
<p><b>5. Integrating BAP into local policies</b></p> <ul style="list-style-type: none"> <li>Proactively support local authorities, so that they are better able to develop innovative ways of delivering biodiversity locally.</li> <li>Actively promote the inclusion of biodiversity objectives into Community Strategies, Local Development Frameworks and other local plans.</li> <li>Promote best practice in the planning system, providing support and advice to LPAs to avoid loss of features through development, and to make the most of opportunities from planning gain.</li> </ul>	<ul style="list-style-type: none"> <li>Regular liaison established with the local strategic partnership and planning authority.</li> <li>Increased profile for biodiversity within existing and new local plans (demonstrate this with examples).</li> <li>New or revised Community Strategies and LDFs include biodiversity objectives consistent with LBAP targets.</li> </ul>	<ul style="list-style-type: none"> <li><u>Norfolk Local Area Agreement</u>: Considerable progress has been made in taking forward the two biodiversity indicators in the LAA: NI 197 on County Wildlife Sites, and a local indicator dealing with ecological networks. Sam Neal, Heidi Thompson, John Hiskett, Helen Baczkowska and I represented Norfolk at a regional workshop on NI 197, held in Cambridge on 13 January 2009. The methodology for the econets indicator has been finalised through a series of working group meetings involving NE, FC, NCC and NWT; targets have now been identified and a detailed action plan drawn up.</li> <li><u>Seminar on Planning and Biodiversity</u>: Arrangements are being put into place for the next Planning and Biodiversity Seminar, which will be held on 10 September 2009. As with previous seminars, the event is being organised in collaboration with the Suffolk Biodiversity Partnership. Mike Oxford from ALGE has once again kindly agreed to be the lead facilitator.</li> <li><u>Community Strategies</u>: I attended two board meetings of the Broadland Community Partnership, and have continued to serve as BCP's "Environment Champion". A proposal submitted by Norfolk Wildlife Services to the Broadland Community Partnership for work on County Wildlife Sites has been successful. I also remain engaged with the South Norfolk LSP's working group on ecological networks.</li> </ul>

CORE SERVICES	SUCCESS MEASURES AND OUTPUTS	PROGRESS
<p><b>6. Promoting BAP locally</b></p> <ul style="list-style-type: none"> <li>• Develop and implement a communications plan to raise awareness in support of BAP, working with partners and any established public awareness working group.</li> <li>• Increase the engagement of local businesses and communities in the BAP process.</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure a web-presence for the partnership is maintained and take steps to promote biodiversity through implementation of the communications plan, including the publication and distribution of an annual newsletter.</li> <li>• Demonstrate an increase in business participation through funding and implementation.</li> </ul>	<ul style="list-style-type: none"> <li>• Mike Sutton-Croft, the Co-ordinator of the Non-native Species Initiative, has developed a major new section on the website dealing with invasive alien species.</li> <li>• As mentioned above, Anglian Water has recently become a formal member of the Biodiversity Partnership; AW is also an active member of both the Wetlands and Waterbodies Topic Groups. A representative of the SeaLife Centres has recently joined the Coastal Topic Group, and has identified a range of areas for potential collaboration with the Partnership.</li> </ul>
<p><b>7. Representation</b></p> <ul style="list-style-type: none"> <li>• Ensure the LBAP partnership is represented on the regional biodiversity forum and other relevant regional and national meetings.</li> <li>• Respond to consultation from partners at regional and national levels of the BAP process.</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure the LBAP partnership is represented at appropriate regional and national meetings and fora (e.g. review groups and training workshops). Demonstrate with examples.</li> </ul>	<ul style="list-style-type: none"> <li>• I took part in the SITA Project Assessment Panel on 15 December 2008 and the Regional Biodiversity Forum on 22 January 2009. SITA has recently renewed its biodiversity funding programme (“Enriching Nature”) for a further year, and remains a particularly important source of support for conservation activities.</li> </ul>

CORE SERVICES	SUCCESS MEASURES AND OUTPUTS	PROGRESS
	<ul style="list-style-type: none"> <li>• Responses to regional and national consultations relating to biodiversity (demonstrate with examples).</li> <li>• Regular contacts exist with the regional biodiversity partnership and the national LBAP co-ordinator and facilitator, with a two-way flow of information including exchange of examples of good practice and over-arching problems (demonstrate with examples).</li> </ul>	<ul style="list-style-type: none"> <li>• I attended a meeting of the Local and Regional Strategic Implementation Group on 17 November 2008. This is a national group established under the umbrella of the England Biodiversity Strategy.</li> <li>• I remain in frequent communication with the Regional Biodiversity Co-ordinator, eg, regarding the arrangements for the regional workshop on NI 197.</li> </ul>

ADDITIONAL SERVICES	SUCCESS MEASURES AND OUTPUTS	PROGRESS
<p><b>Establishing and maintaining a broad partnership</b></p> <ul style="list-style-type: none"> <li>• Organise an Annual Biodiversity Forum, in order to: encourage networking among a diverse range of organisations and stakeholders with an interest in biodiversity; provide opportunities to learn about the work of the Biodiversity Partnership; and stimulate discussion about the key issues and challenges facing biodiversity in the county.</li> </ul>	<ul style="list-style-type: none"> <li>• Biodiversity Forum is held on an annual basis, with participation from a diverse range of organisations and stakeholders; feedback via evaluation forms demonstrates that objectives are being met.</li> </ul>	<ul style="list-style-type: none"> <li>• Planning has begun for the next Annual Biodiversity Forum, which will be held at the Abbey Conference Centre on 1 October. The Forum this year will be designed to celebrate ten years of the Norfolk Biodiversity Action Plan.</li> </ul>
<p><b>Delivering BAP locally</b></p> <ul style="list-style-type: none"> <li>• Facilitate and support the operation of multi-stakeholder, thematic/habitat-based Topic Groups.</li> </ul>	<ul style="list-style-type: none"> <li>• Existing Topic Groups continue to meet on a regular basis, and to develop, promote, monitor and revise Habitat and Species Action Plans and other relevant LBAP plans.</li> </ul>	<ul style="list-style-type: none"> <li>• Seven Topic Group meetings were held during the period. (Please see Annex 1).</li> <li>• Two bat action plans have now been finalised. Work on a number of other action plans has continued, including those for reed bunting, sandy stiltball and ponds.</li> </ul>

ADDITIONAL SERVICES	SUCCESS MEASURES AND OUTPUTS	PROGRESS
<ul style="list-style-type: none"> <li>Subject to the availability of funding, administer and manage a Biodiversity Project Fund to support the delivery of projects linked to the implementation of the Habitat and Species Action Plans and/or the achievement of LBAP aims more broadly.</li> </ul>	<ul style="list-style-type: none"> <li>The existing Biodiversity Project Fund remains operational; projects which meet the Fund's criteria are financially supported.</li> </ul>	<ul style="list-style-type: none"> <li>Four new project proposals were approved in principle over the reporting period, totalling £10,795. Please see Annex 2 for a summary of proposals considered.</li> <li>A complete list of the activities supported by the Biodiversity Project Fund from its inception can be found in Annex 4.</li> </ul>

### Annex 1: Summary of Topic Group Meetings Held

Topic Group	Meeting Date	Principal Issues Discussed
Coastal BAP Topic Group	11 February 2009	Agenda items included: the Wash Green Infrastructure Master Plan; the revision of the AONB management plan; and the proposal to develop regional marine action plans for cetaceans and fish.
Communities and Nature BAP Topic Group	4 November 2008 and 17 February 2009	Agenda items included: a presentation on biodiversity in school grounds; the Community Biodiversity Awards; and the arrangements for the Community Wildlife Conference.
Ecological Networks Topic Group	No meeting held this period	Meeting scheduled for 29 April 2009.
Farmland BAP Topic Group	18 November 2008	Agenda items included: the final report of NWT's grassland monitoring project; review of the second draft of the Barbastelle Action Plan; and a discussion about a BAP training day for agri-environment advisors.
Heathland BAP Topic Group	No meeting held this period.	Meeting scheduled for 24 February 2009.
Waterbodies BAP Topic Group	14 January 2009	Agenda items included a presentation on crucian carp, a summary of recent research on stoneworts, and an introduction to FrogLife.
Wetlands BAP Topic Group	29 January 2009	Agenda items included: a review of the draft Reed Bunting Action Plan; an update on the Broads BAP; and a discussion about the criteria for identifying wet grassland of BAP quality.
Woodlands BAP Topic Group	6 November 2008	Agenda items included: the wet woodlands project; NI 197; and the plans for the woodland masterclass.

## Annex 2: Summary of Recent Proposals Submitted to the Biodiversity Project Fund and Decisions Taken

	Title of Proposal	Topic Group/ Lead Organisation	Amount Requested	Decision
1	Survey of the Contorted Pine Hedgerows of the Brecks	Farmland Topic Group/ UEA	£3,500	Approved in principle (subject to the Biodiversity Project Fund being replenished).
2	Cut-off Channel Management Project	Farmland Topic Group/NWT	£3,495	Approved in principle (subject to the Biodiversity Project Fund being replenished).
3	Wild about the Wensum	Communities and Nature Topic Group/Pensthorpe Conservation Trust	Not specified	£500 approved in principle, subject to clarification of charging policies.
4	Identifying the Status of Non-native Species in Norfolk Ponds – Towards a Species Action Plan for Crucian Carp	Waterbodies Topic Group/ CEFAS	£3,300	Approved in principle (subject to the Biodiversity Project Fund being replenished).
5	The Conservation Ecology of the Eurasian Nightjar in a Mosaic Heathland-Plantation Landscape	Heathland Topic Group/UEA	Not specified	The aims and objectives of the project were fully supported; however, it was felt that the Biodiversity Project Fund may not be the most appropriate source of funding for a research project of this kind. The proposal was referred back to the Heathland Group for further discussion. The applicant was also invited to re-apply in the future in the event that research activities become stalled because of a shortage of funding.

### **Annex 3: Calendar of Forthcoming Biodiversity Events**

#### **BAP Steering Group**

- 4 June 2009
- 5 November 2009

#### **BAP Co-ordinators' Group**

- 18 May 2009

#### **10-Year Review Workshop**

- 23 June 2009

#### **Topic Group Meetings**

- Coastal Topic Group: 17 June 2009
- Communities and Nature Topic Group:
- Ecological Networks Topic Group: 29 April 2009
- Farmland Topic Group: 7 April 2009
- Heathland Topic Group: 24 February 2009
- Waterbodies Topic Group: 13 May 2009
- Wetlands Topic Group: 24 April and 21 July 2009
- Woodlands Topic Group: Date to be set

#### **Biodiversity Forums**

- Heaths Forum: 7 May 2009
- Annual Biodiversity Forum: 1 October 2009

### **Other Biodiversity Events**

- Community Wildlife Conference, “Natural Neighbours”: Saturday 7 March 2009
- Wild about the Wensum: Saturday 16 May 2009
- International Day for Biological Diversity: 22 May 2009 (Displays to be hosted at the Forum in Norwich)
- Woodland Masterclass: 1 or 2 June 2009
- Non-native Species Initiative – Day of Action: 5 July 2009
- Planning and Biodiversity Seminar: 10 September 2009
- Wild about Norfolk: 3 October 2009

### **Regional and National Meetings**

- East of England Biodiversity Forum: 28 April, 30 July and 22

**Annex 4: Summary of Projects Supported by the Norfolk Biodiversity Partnership through the Biodiversity Project Fund, from 2004/05 Onwards**

<b>Topic Group</b>	<b>Project Title</b>	<b>Project Objectives</b>	<b>Linkage to SAP/HAP</b>	<b>Location</b>	<b>Project Manager</b>	<b>Time-scale</b>	<b>Total Cost</b>	<b>Biod. Project Fund</b>	<b>Status</b>
Coastal	Saline Lagoon Workshop	- To organise a one-day workshop on saline lagoon management, with Dr. R.N. Bamber.	Saline lagoon HAP	North Norfolk	Peter Lambley, EN	One-day event (workshop, held on 14 Oct 2004)	£550	£550 (100%)	Successfully completed
Coastal	A Study of the Soft Rock Cliff Invertebrate Fauna of the Norfolk Coast	- To gather new data on the invertebrate communities of the Norfolk coast - To contribute data to Buglife's UK-wide study into maritime soft rock cliffs - To hold a workshop on soft cliff management.	Maritime cliff and slope HAP	North Norfolk	Andrew Whitehouse, Buglife	May - Nov, 2006	£7,300	£4,300 (59%)	Completed and report received. A soft cliffs practitioners' workshop was held on 19 July 2007.
Coastal	Production of a Harbour Porpoise Identification and Survey Card	- To enhance understanding of the distribution and status of harbour porpoise off the coast of Norfolk	Harbour porpoise SAP	North Norfolk, KLBC, GYBC	Scott Perkin	Card to be launched in summer 2008	£4,270	£1,770 (41%)	Ongoing. Over 800 cards have now been distributed to a wide range of coastal organisations.
Coastal	Survey of Coastal BAP Habitats in Great Yarmouth Borough	- Identify extent of BAP habitats and prepare a GIS layer - Identify possible County Wildlife Sites	Coastal sand dune, maritime cliff and slope, and grassland HAPs	GYBC	Reg Land, NWT	Aug-Nov 2007	£3,000	£750 (25%)	Survey completed; report received.

 = Project closed.

Topic Group	Project Title	Project Objectives	Linkage to SAP/HAP	Location	Project Manager	Time-scale	Total Cost	Biod. Project Fund	Status
Communities and Nature	Norwich Rivers and Green Spaces Project	- To raise awareness about Norwich's rivers and encourage community involvement to enhance the urban river corridor.	The project has linkages to a number of action plans.	Norwich City	Matt Davies, Norwich Fringe Project	One year (Sept 2005-Aug 2006)  Extended to Nov 06	£30,490	£5,000 (16%)	Completed and final report received.
Communities and Nature	Support for "Wild about Norfolk" 2005 (bird and bat boxes)	- To inform the general public (particularly children) about Norfolk's wildlife and inspire an active interest in conservation.	This project contributes to the Biodiversity Partnership's Awareness Strategy	Thetford	Jennie Murdy, RSPB local group	One day event (15 Oct 2005)	£4,300 + volunteers' time est. at £6,900	£500 (11.6%)	Successfully completed; report received.
Communities and Nature	Support for "Wild about Norfolk 2006" (printing of activity booklet)	- As above.	As above.	Norwich	Jennie Murdy	9-10 Sept 2006		£500	Successfully completed. Over 4,000 people attended the event. Report received.
Communities and Nature	Support for "Wild about Norfolk 2007" (printing of activity booklet)	- As above	As above	Norwich	Jennie Murdy	8-9 Sept 2007	£750	£500 (67%)	Booklet printed and WaN successfully held. Report received.
Communities and Nature	Wensum Valley Churchyards	- To improve the management of churchyards and cemeteries for wildlife	Churchyards and Cemeteries HAP	Breckland	Robin Goolden	One year (July 2008-June 2009)	£1,000 (Additional £2,000 approved in principle for future years.)	30%	First-year completed and brief report received. Future support under discussion.
Communities and Nature	A Community Toolkit for the Protection of White-clawed Crayfish	- To reduce the risk of introducing alien crayfish and crayfish plague to the River Wissey	White-clawed crayfish SAP	Breckland	David Shearing	One year (June 07-June 08)	£3,114	£2,600 (83%)	Survey of the Thet river completed; report received.

Topic Group	Project Title	Project Objectives	Linkage to SAP/HAP	Location	Project Manager	Time-scale	Total Cost	Biod. Project Fund	Status
Communities and Nature	Wild about the Wensum	- To raise environmental awareness and promote partnership working	BAP Awareness Strategy	County-wide	Pauline Chamberlain	17 May 08	£5,000	£500 (10%)	Event successfully held on 17 May; report received.
Communities and Nature	Community Wildlife Conference	- To assist the community biodiversity sector to become better networked and resourced and more engaged with the BAP process.	An umbrella project with links to many action plans.	County-wide	Marya Parker, BTCV	7 March 09	£5,253	£2,000 (38%)	Planning is now well advanced.
Communities and Nature	Wild about the Wensum	- To raise public awareness of the local environment and promote partnership working.	BAP Awareness Strategy	County-wide, with a focus on the Wensum	Pauline Chamberlain and Mark Noble	16 May 09	£3,000	£500 (17%)	Funding confirmed subject to clarification of parking charge policy.
Ecological Networks	Making Space for Wildlife: Creating an Ecological Network for Norfolk	- To promote the development of an ecological network in Norfolk; - To develop a Norfolk econet map; - To prepare a set of project briefs to take the econet forward.	An "umbrella project" with linkages to many different HAPs and SAPs.	County-wide	Reg Land, NWT	March 2005 – February 2006	£16,400	£7,200 (44%)	Successfully completed. A CD with all the reports, maps and GIS layers produced by the project has been sent to every local planning authority and to a number of other interested parties.

Topic Group	Project Title	Project Objectives	Linkage to SAP/HAP	Location	Project Manager	Time-scale	Total Cost	Biod. Project Fund	Status
Ecological Networks	County Wildlife Site Habitat Mapping	<ul style="list-style-type: none"> <li>- To measure the extent of BAP habitats on County Wildlife Sites;</li> <li>- To input this information into the CWS database;</li> <li>- To generate digital distribution maps for each habitat.</li> </ul>	As above.	County-wide	Andrina Walmsley, NWT	March – May 2008	£2,000	£2,000 (100%)	Project completed; report awaited.
Farmland	Databases of Lowland Calcareous Grasslands and Lowland Meadows	<ul style="list-style-type: none"> <li>- To develop a database for each of the BAP grassland habitats for Norfolk</li> </ul>	Calcareous grasslands and lowland meadows HAPs (in prep)	County-wide	Helen Baczkowska, NWT	Nov 05 – March 06	£5,000	£3,500 (70%)	Successfully completed; report received.
Farmland	Biodiversity and Farming Exhibition at the Royal Norfolk Show	<ul style="list-style-type: none"> <li>- To demonstrate ways in which farmers can manage their land to help conserve and enhance biodiversity.</li> </ul>	Farmland HAPs and SAPs	County-wide	Belinda James	June 2006	£22,375	£1,000 (4.5%)	Completed; brief report received.
Farmland	Norfolk Hedgerow Database and GIS Layer	<ul style="list-style-type: none"> <li>- To develop a hedgerow GIS layer and leaflet</li> </ul>	Hedgerow HAP	County-wide	Tom Williamson, UEA	Jan-Oct 2008	\$5,000	£3,500 (70%)	Nearing completion; anticipated April 2009.
Farmland	Habitat Management for the Rare Arable Weeds <i>Silene gallica</i> and <i>Galeopsis angustifolia</i>	<ul style="list-style-type: none"> <li>- Increase the area occupied by both populations and establish a new self-sustaining population of <i>Silene gallica</i></li> <li>- Identify management and disturbance requirements</li> </ul>	Arable plant SAPs	Snettisham and Felmingham	Graham Hopkins	Oct 2007- Oct 2008 (Phase 1)		£1,019  In-kind contributions of £20,600 expected by 2015.	Underway.

Topic Group	Project Title	Project Objectives	Linkage to SAP/HAP	Location	Project Manager	Time-scale	Total Cost	Biod. Project Fund	Status
Farmland	Identification of Important Arable Plant Areas: Phase 1	- To determine the number and location of important arable plant areas in Norfolk, using the Plantlife methodology.	Arable plant SAPs	County-wide	Henry Walker	Oct 2008 – March 09	£5,700	£4,000 (70%)	Underway.
Farmland	Cut-Off Channel Management Project	- Survey the biodiversity of the Cut-off Channel and advise on management and the potential for CWS designation	Links to several plans, including lowland calcareous grassland, song thrush and turtle dove	West Norfolk	Andrina Walmsley	April 09 – Oct 10	£6,995	£3,495 (50%)	Approved subject to availability of funds.
Farmland	Survey of Brecks Contorted Pines	- Develop a GIS layer of the Brecks pine hedgerows	Hedgerow HAP	Brecks Natural Area	Gerry Barnes and Tom Williamson	April 09 – Sept 10	£6,000	£3,500 (58%)	Approved subject to availability of funds.
Heathland	Heathland CWS Assessment	- To draw together existing information on heathland CWS; - To establish a programme of condition monitoring; - To identify priority areas for management advice and grant aid.	Heathland HAP	County-wide	Helen Baczkowska, NWT	Oct 2004 - Oct 2005	£1,000	£1,000 (100%)	Completed; brief summary report received.
Heathland	Translocation of Silver-studded Blue	- To carry out a translocation of SSB from Buxton heath to Cawston heath	Draft silver-studded blue SAP calls for re-introductions to two sites by 2010.	Broadland	Mandy Gluth, BC	July 2006	£500	£500 (100%)	Translocation completed. Report received.

Topic Group	Project Title	Project Objectives	Linkage to SAP/HAP	Location	Project Manager	Time-scale	Total Cost	Biod. Project Fund	Status
Heathland	Translocation of Silver-studded Blue: Phase 2	- To carry out a second translocation of SSB from Buxton to Cawston.	As above.	Broadland	Mandy Gluth, BC	July 2007	£500	£500 (100%)	Translocation completed; report received.
Heathland	Research and Survey on the Ground Beetle <i>Ophonus laticollis</i>	- To assess the size and extent of the population at Gallows Hill; - To provide recommendations on the management of field margins and hedgerows, as well as a monitoring protocol.	<i>O. laticollis</i> SAP	Breckland	Mark Telfer	May – June 2008 (fieldwork). Report by Jan 2009.	£1,916	£1,916	Field work completed; report awaited.
Heathland	Conserving the Grey Carpet Moth in the Brecks	- To create a network of suitable habitat for grey carpet across 13 Brecks sites.	Heathland HAP	Breckland	Sharon Hearle, BC	Oct 2008-Sept 2009	£54,491	£2,093.85 (4%)	Underway.
Heathland	Brecks Biodiversity Audit	- To develop a site-specific LBAP for the Brecks, with management prescriptions.	Contributes to multiple HAPs and SAPs	Breckland	Paul Dolman, UEA	Nov 08 – Oct 09	£18,000	£6,000 (33%)	Discussions with other partners are underway to agree roles and funding contributions.
Waterbodies	Water Vole Survey	- To carry out a repeat survey of the national survey sites in Norfolk in 2005/06 -	Water vole SAP (Action 5.5.4)	County-wide, with focus on Broads.	Steve Henson, NWT	Oct 05-Aug 06 (extended to 2007)	£3,400 plus in-kind costs from NWT	£1,400 (41%)	Ongoing; first phase completed.
Waterbodies	Great Crested Newt Record Collation	- To create a single, integrated dataset of GCN occurrence in Norfolk.	GCN SAP (Actions 5.1.1, 5.1.2, 5.2.1, and 5.5.2)	County-wide	Helen Baczowska, NWT	Nov 05 – March 06 (extended to 2007)	£3,000 plus in-kind costs from NWT	£2,000 (66%)	Completed and all records sent to NBRC. Brief summary report received.

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Waterbodies	Norfolk Broads Mink Management Project	<ul style="list-style-type: none"> <li>- To establish strategic control of mink in the Broads;</li> <li>- To establish a self-sustaining mink control network;</li> <li>- To monitor mink and water vole populations;</li> <li>- To improve habitat management.</li> </ul>	Water vole SAP	Broads National Park	Rick Southwood	April 06 - March 08	£43,100	£5,000 (12%)	This project is ongoing (see below).
Waterbodies	Mid-Norfolk Mink Management Project: Phase II	<ul style="list-style-type: none"> <li>- To establish strategic control of mink in selected parts of the Wensum River Valley;</li> <li>- To establish a self-sustaining mink control network.</li> </ul>	Water vole SAP	Wensum	Heidi Thompson, NCC	1 year	£15,000	£3,500 (23%)	Ongoing.
Waterbodies	River Glaven White-clawed Crayfish Survey 2006	<ul style="list-style-type: none"> <li>— To clarify the distribution and status of WCC on the River Glaven and assess its suitability as a refuge ("Ark") site;</li> <li>— To provide training to the River Glaven Conservation Group in crayfish surveying techniques.</li> </ul>	White-clawed crayfish SAP	North Norfolk	Steve Henson, NWT	Sept/Oct 2006	£4,445	£3,733.75 (84%)	Survey completed; final report awaited.

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Waterbodies	River Glaven Signal Crayfish Survey 2007	— To clarify the distribution and status of signal crayfish within the River Glaven's Water Lane tributary stream	White-clawed crayfish SAP	North Norfolk	Steve Henson, NWT	August 2007	£3,780	£2,500 (66%)	Survey completed; report awaited.
Waterbodies	Lound Pillwort and Marginal Plant Survey	— To establish the distribution and abundance of pillwort on the Norfolk and Suffolk sides of Lound ponds	Pillwort SAP	Great Yarmouth Borough Council	Broads Authority	July-Oct 2007	£3,130	£580 (18.5%)	Project completed and report received. No pillwort found.
Waterbodies	Diving Beetle ( <i>Bidessus unistriatus</i> ) Survey	— To survey currently known Norfolk sites at Hickling and Catfield, as well as historical sites at STANTA.	Diving beetle SAP	North Norfolk, Breckland	Geoff Nobes	June-Sept 2007	£2,000	£300 (15%)	Surveys completed; report received.
Waterbodies	Norfolk <i>Tolypella intricata</i> population Assessment and Recovery Plan: Phase 1 of 3	— To survey and record <i>T. intricata</i> at three sites in Norfolk: Sculthorpe Fen, Cantley and Gillingham Marshes — To take water quality samples to determine winter water quality conditions of the sites.	Tassel stonewort SAP	Sculthorpe, Cantley and Gillingham	Stephen Lambert, UEA	Feb-July 2008	£3,050	£550 (18%)	Fieldwork completed and report. The most promising site for future work is Sculthorpe.
Waterbodies	Enhancing Greater Water Parsnip in the Fens	— To increase by 15% the number of 10km squares in the Fens occupied by greater water parsnip	Greater water parsnip SAP	Norfolk, Cambs and Lincs	Tim Pankhurst, Plantlife	April 08 – March 10	£28,891	£1,021 (3.5%)	Project underway.

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Waterbodies	Conservation Value of Non-Broads Lakes	<ul style="list-style-type: none"> <li>- Compile existing ecological information about non-Broads lakes</li> <li>- Identify sites for which no information exists and that would be worthy of survey.</li> </ul>	Mesotrophic and eutrophic lakes HAPs	County-wide	Car Sayer, UCL	March – June 08	£3,740	£1,740 (46.5%)	Final report received.
Waterbodies	Wash Rivers Crayfish Survey: Scoping Phase	<ul style="list-style-type: none"> <li>- To identify an appropriate methodology for a Wash rivers crayfish survey;</li> <li>- To prepare a detailed proposal for a 2009 survey.</li> </ul>	White-clawed Crayfish SAP	West Norfolk	Henry Walker, FWAG	Oct 08 – March 09	£1,480	£1,400 (95%)	Scoping exercise completed and findings incorporated into a revised proposal for a survey in 2009.
Waterbodies	Broads Mink Management Project (cont)	<ul style="list-style-type: none"> <li>- To continue and expand strategic control of mink.</li> </ul>	Water Vole SAP	Broads	Rick Southwood	Oct 08 – March 09	£19,000	£4,000 (plus £6,844 c/f from 07/08)	Ongoing
Waterbodies	Towards a Species Action Plan for Crucian Carp	<ul style="list-style-type: none"> <li>- To carry out a survey of the fish populations of ten ponds</li> </ul>	May lead to development of a local plan for crucian carp	North Norfolk	Gordon Copp and Carl Sayer	March 09 – Feb 10	£4,800 plus significant in-kind	£3,300 (69%)	Approved subject to availability of funding.
Wetlands	Sustainable Solutions to the Ochre and Salinity Problems in the Brograve Catchment	<ul style="list-style-type: none"> <li>- To undertake a feasibility study to develop a plan for sustainable use of land and water resources in the Brograve catchment.</li> </ul>	A variety of wetland HAPs and SAPs.	North Norfolk	Lou Mayer, KLCIDB	Jan - Aug 2005	£43,524	£7,300 (17%)	Completed. Report received.

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Wetlands	Norfolk Fens Assessment	<ul style="list-style-type: none"> <li>— To assess the management status and condition of all non-SSI fen sites outside the Broads area;</li> <li>— To identify sites in need of restoration;</li> <li>— To prioritise the need for restoration and management advice;</li> <li>— To produce site management statements and conservation plans for priority sites.</li> </ul>	Fen HAP (particularly Action 5.2.4)	County-wide (except Broads)	Andrina Walmsley, NWT	Oct 2004 - April 2006	£13,300	£1,000 (7.5%)	Completed and detailed report received. The final database includes information on 678 sites, each of which is also linked to a map.
Wetlands	Pingo Mapping and Condition Assessment	<ul style="list-style-type: none"> <li>— Identify and map all pingo clusters in Norfolk;</li> <li>— Assess condition and identify sites at risk.</li> </ul>	Fen HAP	Fens and Breckland valleys	Andrina Walmsley, NWT	Jan-Dec 2007	£5,520	£3,020 (55%)	Completed; final report has been drafted and is being edited.
Wetlands	Fen Restoration Project	<ul style="list-style-type: none"> <li>— Work with landowners to develop management programmes and negotiate funding for the restoration of 20 priority sites.</li> </ul>	Fen HAP	County-wide (outside the Broads)	Andrina Walmsley, NWT	April 2008 to Dec 2010	£11,734	£3,156 (27%)	Underway and making good progress. Restoration at key sites has begun.

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Wetlands	Monitoring Biodiversity in the Thurne Catchment Ditch System	<ul style="list-style-type: none"> <li>— To collate and digitise raw data on flora and fauna from a series of surveys dating back to 1973;</li> <li>— To carry out a fourth survey of the same ditches and analyse changes in species occurrence, distribution and abundance.</li> </ul>	Coastal and Floodplain Grazing Marsh HAP	Broadland	Vicky Kindemba, Buglife	July 2008 to December 2009	£12,350	£3,500 (28%)	Project started. Steering Group meeting held on 17 October 2008. Data collation and analysis underway, but survey postponed to 2009.
Woodlands	Phase 1 Roadside Orchard Survey	<ul style="list-style-type: none"> <li>— To carry out a survey of Norfolk's traditional orchards to establish their extent, status and trends.</li> </ul>	Traditional orchards HAP	County-wide	Gerry Barnes, NCC (with EEAOP)	April-October 2005	£1,500	£1,500 (100%)	Completed; final report and database received.
Woodlands	Phase 2 Biodiversity Survey of Traditional Orchards	<ul style="list-style-type: none"> <li>— To carry out surveys of invertebrates, lichens, bryophytes, ground flora and fruit varieties at five traditional orchards, representing different geographical areas and management regimes.</li> </ul>	Traditional orchards HAP	Five sites in South Norfolk, the Fens, mid-Norfolk, and North Norfolk.	Gerry Barnes, NCC (with EEAOP)	To be completed by Dec 2005	£1,000	£1,000 (100%)	Bryophyte, mollusc, lichen and diatom surveys completed.
Woodlands	Propagation of Traditional Norfolk Apple Varieties	<ul style="list-style-type: none"> <li>— To ensure that a wide variety of traditional apple saplings is available for distribution (880 trees to be grown)</li> </ul>	Traditional orchards HAP	County-wide	Gerry Barnes, NCC (with EEAOP)	Jan 06 to March 08	£3,036	£1,400 (46%)	Completed; report received.

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Woodlands	Conservation, Enhancement and Re-creation of Wet Woodland and other Wet Habitats in the Nar and Wensum Valleys	<ul style="list-style-type: none"> <li>— Expand the area of wet woodland in positive management by 40 ha by mid-2007;</li> <li>— Re-create 10 ha of wet woodland by 2009.</li> </ul>	Wet Woodland HAP	Wensum and Nar River Valleys	Gerry Barnes, NCC	April 06 to March 09	£20,000	£3,600 (18%)	Underway. Mary Russell has been commissioned to advise on the potential for wet woodland enhancement and creation.
Woodlands	Deer Parks, Wood Pasture and Biodiversity	<ul style="list-style-type: none"> <li>— To make information about the historic location of Norfolk's deer parks available to help guide habitat re-creation schemes, etc.</li> </ul>	Wood-Pasture HAP	County-wide	Rob Liddiard, UEA	Jan – Sept 2008	£5,000	£3,000 (60%)	Underway; final report anticipated in spring 2009..