

Tayside Biodiversity Partnership



BIODIVERSITY
THE VARIETY OF LIFE

**BENEFITS OF
BIODIVERSITY
TO TAYSIDE**

August 2009

EXECUTIVE SUMMARY

For the past decade, the Tayside Biodiversity Partnership has provided a unique and vital link between public, private and voluntary groups, as well as the general community. The purpose of this report is to outline the benefits that biodiversity brings, not only to Tayside's habitats and species, but also its economy and people.

Since its introduction, the Nature Conservation (Scotland) Act 2004 has placed a duty on public bodies to further the conservation of biodiversity. With the Single Outcome Agreements being key drivers for public service delivery and as Lead Partners in the Partnership, there is now an opportunity for the three local authorities to demonstrate how integral Tayside's rich biodiversity resource is to our overall economic and social well-being.

Biodiversity is key to sustainable development: without it we would have few pharmaceuticals, a diversity of food pollinated by our bees, or attractive landscapes. It is critical to the productivity of our economy, including tourism. In 2008, UK and overseas visitors stayed 5.43 million bed-nights in Tayside and spent £298m. Just over one in five people in Tayside work in tourism-related employment; an equally large percentage work in agriculture, food production and forestry. Biodiversity is therefore "big business" and "local business".

With a focus on Single Outcome Agreements, local authorities are actively reducing their total carbon footprint. As grasslands purify our atmosphere – they store far more carbon in their soils than tropical rain forests - carbon sequestration is an increasingly important aspect of greenspace management. A hectare of urban park is estimated to remove 1,200 kg of carbon dioxide from the air each day, returning a similar amount of oxygen. Dundee's urban area includes 28% greenspace; both Angus and Perth & Kinross Council are actively changing their parkland and graveyard grassland regimes, so Tayside can very significantly contribute to carbon reduction by managing land with biodiversity in mind.

Studies have also shown that heart rate and blood pressure are reduced within minutes of entering a park. With up to 60% of Britain's urban biodiversity also found in its gardens, the Partnership can demonstrate that gardening (or taking on an allotment) is not just good for local community health. Angus Council's Ranger Service is including the elderly in their sheltered housing biodiversity project. Many Tayside schools now have an outdoor classroom; more and more people are involved in managing a community garden or orchard.

In the past 9 years, the Partnership has become the key "biodiversity information hub" in Tayside, its website attracting over a half million hits per annum and a suite of publications distributed, including the Planners and Developers' Manual, the "Integrating Biodiversity into Local Services" handbook, and the "Making Way for Nature in Community Gardens, Orchards and Allotments" booklet. In 2003, the Partnership's 'Building Better Biodiversity' series of seminars and workshops was launched. Since then, over 1,300 people have attended training courses. If charged at a commercial rate, this would have cost the local authorities approx. £63,000 to provide.

There have also been many direct economic, employment, and health benefits. In the last 3 years, 56 projects have been championed by the Partnership. The SITA Tayside Biodiversity Action Fund has enabled a further 49 "on the ground" projects

to be started through the allocation of £447,724 (and a total leverage of nearly £870,000). Very few, if any, of these projects would have gone ahead without funding from the SITA Trust. Additional projects have ranged from small local community groups improving their housing association courtyards for biodiversity, to complex projects bringing together partners and funding to directly contribute towards a UK Biodiversity Action Plan target.

In October 2008, the first Carse of Gowrie Orchard Festival attracted 3,500 participants (and great media interest) – the first Festival of its kind in Eastern Scotland. In May 2009, Tayside’s first Biodiversity Festival offered 58 events which attracted a further 10,000 visitors. In addition to a variety of walks and talks arranged by Partners, the Co-ordinator worked with the Dundee Science Centre to bring the prestigious “What on Earth is Biodiversity” exhibition to Scotland for 3 months and Dundee Contemporary Arts held their selection of international WildScreen films at the same time.

The term “biodiversity” is now used widely by the media and understood by all age groups; children, especially, use the term. TV and radio programmes, newspapers and magazines all include articles on biodiversity projects, so local communities are now contacting the Partnership as a matter of course. However, for this to continue, long-term funding from the three Tayside local authorities is essential.

TAYSIDE BIODIVERSITY PARTNERS

Lead Partners

- *Angus Council*
- *Dundee City Council*
- *Perth and Kinross Council*

Partners

- *Forestry Commission Scotland*
- *Littlewood Landcare*
- *Lockett Agri-Environmental*
- *National Farmers’ Union Scotland*
- *National Trust for Scotland*
- *Perth College UHI*
- *Royal Society for the Protection of Birds*
- *Scottish Agricultural College*
- *Scottish Government Rural Payments and Inspections Directorate*
- *Scottish Environmental Protection Agency*
- *Scottish Field Studies Association*
- *Scottish Rural Property and Business Association*
- *Scottish Natural Heritage*
- *Scottish Wildlife Trust*

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The broad aim of the Tayside Biodiversity Action Plan is:

**** To co-ordinate existing actions, as well as initiating and co-ordinating new actions.***

**** To preserve and enhance the region's biodiversity, taking into account both local and national priorities.***

SECTION 1

ECONOMIC BENEFITS

Biodiversity – a Key Component to Sustainable Development

In the Scottish Biodiversity Strategy (published 2004), it is stated “Traditional tools for economic evaluation typically under-represent or even ignore the economic value of the environmental capital or ecosystem services delivered by Scotland's natural environment, including biodiversity.” The Strategy continues: “This leads to biased outputs from traditional cost/benefit assessments, for example for new developments. Novel methods are required to permit both more accurate estimation of the economic value of biodiversity and the assessment of value in non-monetary terms.” It concludes: “Realistic expectations are required: precise monetary estimates are likely to remain elusive. It is essential to develop and improve policy support and evaluation tools in order that they may account for the wide ranges of values expressed in both monetary and non-monetary terms.”

Five years on from the Strategy's publication, the fact that biodiversity underpins our national economy is only just beginning to be realised. Professor Edward Wilson, who coined the term “biodiversity” from “biological diversity, said *“it is the key to the maintenance of the world as we know it. This is the assembly of life that took a billion years to evolve. It... created the world that creates us. It holds the world steady.”*

Biodiversity is key to sustainable development: without it we would have few pharmaceuticals, a diversity of food pollinated by our bees, or attractive landscapes, essential for tourism. It is critical to the productivity of our economy. In 1992, the Convention on Biological Diversity - signed by over 150 countries - recognised the importance of the world's natural resources and ecosystems in its objectives:

- Conservation of biodiversity
- Sustainable use of biological resources
- Equitable sharing of biodiversity benefits

The Economic Relevance of Biodiversity to Tayside

Scotland attracts visitors who benefit directly from biodiversity – 80% of them have cited “the scenery” as their reason for visiting; 20% of overseas visitors have placed specific value on “naturalness of the countryside”. Films have exploited Tayside's rich cultural and natural history, for instance Harry Potter (Rannoch Station) and Rob Roy (Drummond and Megginch Castles). It is not just the environment that people enjoy whilst walking, cycling, boating or skiing: wildlife watching is an increasingly important element of tourism whether it is in the uplands, our woodland, rivers or coast. Local foods are becoming more important – as is shown by Perth becoming, in 2007, the first Cittaslow city in Scotland. Responsible use of water and the discharge of pollutants are now being recognised as vital, as is the need to lower fuel miles as well as food miles –a slow realisation that everything is connected.

For 2008, VisitScotland figures show that over 4 million bed-nights by UK visitors were spent in Tayside, with a spend of £215m. Overseas visitors added 1.43m bed-nights and a spend of £83m – a total spend of nearly £300m per year. Just over one

in five people in Tayside works in tourism-related employment. An equally large percentage of people work in agriculture, food production and forestry.

There is a growing acceptance of green tourism and the visitor's "lighter ecological footprint". The Tayside Biodiversity Co-ordinator has liaised with caravan parks, visitor centres, hotels and guesthouses throughout Tayside (often via VisitScotland training courses) to encourage the management of surrounding land with biodiversity in mind, as well as the inclusion of nest boxes and provision of leaflets and survey forms for visitors.

Case Study of Economic Value for Biodiversity

Community & School Orchards Workshop

With the aim of informing local people and teachers of the management requirements for orchards (planting methods, future care, biodiversity value, etc.), a one day workshop was held in the village hall at Errol. The Biodiversity Co-ordinator drew up the programme, arranged speakers (including one from Ayrshire and another from Glasgow) and secured funding (from the Forestry Commission and the Perth & Kinross Countryside Trust). The Partnership publicised the event (mailing and preparation of press releases) and administered the bookings.

The outcome was 32 people attending from across Central Scotland (most delegates were from the N E Fife/Tayside area); several school and community orchards were planned as a result of the expertise gained. The Partnership's aims were met. In addition, the following benefits also arose from the workshop:

1) On the day, the local shop-keeper provided soup and sandwiches at a cost of c£95. The workshop coincided with a charity Coffee Morning in the hall, so participants were encouraged to join this – donations of c£120 to the charity were generated. The Partnership paid hall hire (£50) and fees to speakers: £320.00.

2) Thirty two people attended the workshop; the potential for them returning to the area could be calculated at c10 people x 2 nights' B&B @ £35, plus evening meals taken locally (£15 a head) = £1,000. Total input into community, including hall hire, workshop refreshments = £1,265. This excludes the value of widespread awareness-raising and local publicity for the event.

3) During the workshop, the first fruit trees were planted down the Gas Brae for the benefit of the local community. It was the primary instigation for the first orchard trail in the Carse (eco-tourism benefits). The first tree planting led to the Errol Apple Fair during the first Orchard Festival in 2008 – with the community planting more trees: there is now an avenue of 36 fruit trees on the edge of Errol which will enhance the walking experience of both local people and visitors during blossom time and the autumn.

The Partnership arranges a number of such events each year – in 2008-09, the 17 events held generated an estimated £21,505 for the local economy.

Single Outcome Agreements

Single Outcome Agreements are the key drivers for public service delivery. The Biodiversity Co-ordinator was involved in the Dundee and Angus meetings that decided upon priorities; Partnership members were involved in the Perth and Kinross meetings.

In Angus, via the Angus Rural Environment Partnership (AREP), one of the key priorities is to 'protect and enhance the quality of the natural environment locally'. Under National Outcome 12, one of the "below the waterline" indicators is the proportion of priority species in Angus for which positive action is in place. The Partnership will report back to the AREP on the 26 chosen indicators – the baseline information as at 2008 stands at 17 out of 26 species; the end target indicator in 2012 is 20 out of 26 species.

In Dundee, via the Dundee Partnership for the Environment, priorities include:

- Improve the quality and diversity of the city's open space
- Enhance the biodiversity and ecological value of Dundee
- Increase awareness and encourage community and individual action to protect and enhance open spaces and biodiversity

Dundee's urban area includes 28% greenspace; seven out of ten of the city's residents visit this every month, benefiting their health and well being. Studies have shown that heart rate and blood pressure are reduced within minutes of entering a park: people have been observed slowing their walking pace as they cross greenspace. Dundee is committed to improving the quality of its parks, greenspaces and beaches by gaining nationally accepted awards which concentrate on a range of environmental but also social and economic factors - Broughty Ferry gained its Blue Flag beach award in 2005.

With up to 60% of Britain's urban biodiversity found in backyard gardens, the Partnership is able to raise awareness on how biodiversity can contribute to healthy living by gardening or taking on an allotment. Gardening can be part of a sheltered housing "activity", part of a school's outdoor classroom project, or an opportunity for like-minded people to meet locally to manage a community garden or orchard.

Perth and Kinross' priorities proposed for the area in the SOA includes "reduce the total carbon footprint for Perth and Kinross". This is mirrored in other priorities highlighted in both Dundee and Angus. Coupled with the importance of tourism and new business attracted to the area because of its high quality of life, reducing the area's carbon footprint may prove achievable because of the high number of organisations and projects in the area who are concerned with safeguarding the environment and its inherent biodiversity.

Carbon Sequestration

Carbon sequestration through grassland management is an increasingly important aspect of greenspace management. In research carried out during 2008, scientists (Le Roux and McGeoch)¹ pointed out that "the conservation of biodiversity might play a role in greenhouse gas mitigation" and suggest that "higher biodiversity might lead to higher soil carbon sequestration in the long-term." This is reiterated in Graham Harvey's book "Forgiveness of Nature"² which says that a hectare of urban park is estimated to remove 600 kg of carbon dioxide from the air over a 12 hour period, returning a similar amount of oxygen. Grasslands are the unsung purifiers of our atmosphere – they store as much carbon in their soils as temperate forests and far more than tropical rain forests.

¹ www.co2science.org/articles/V12/N12/EDIT.php

² Harvey, G, 2001, *The Forgiveness of Nature*, Vintage ISBN 0 099 28366 2



SECTION 2

TAYSIDE ACHIEVEMENTS AND AWARENESS-RAISING

Introduction to the Tayside Biodiversity Partnership

In 1998 the three local authorities of Dundee City, Angus and Perth & Kinross formed the Tayside Biodiversity Partnership. Its members also include the statutory bodies – Forestry Commission Scotland, the Scottish Environment Protection Agency and Scottish Natural Heritage, plus organisations such as the Royal Society for the Protection of Birds, Scottish Wildlife Trust, National Trust for Scotland, National Union of Farmers Scotland, the Scottish Rural Property and Business Association, Scottish Agricultural College and until recently, the Farming and Wildlife Advisory Group (see Appendix 1).

In the past 11 years, the Partnership has provided a unique and vital link between public, private and voluntary groups, as well as the general community, in making plans to protect the various habitats and wonderful variety of Tayside’s fauna and flora.

Perth & Kinross Council Environment Services took the lead in setting up the Partnership. When three-year SITA funding was granted in late 2000, the Scottish Wildlife Trust and Angus Council took on the Partnership’s financial management. Angus Council’s Director of Planning agreed to Chair the group. The Tayside Biodiversity Co-ordinator was employed in November 2000. At the launch of the Tayside Biodiversity Action Plan in 2002, the Chair moved to Dundee City Council (Leisure & Communities) and in 2004 the Partnership welcomed Professor Martin Price of the Centre of Mountain Studies at Perth College UHI as its Chair.

The Partnership consists of a Steering Group and a Management Group. To ensure existing targets within the UKBAP and that local needs are taken into account, there are five Habitat Sub-groups: Coasts & Estuaries; Farmland & Upland; Urban & Built Environment; Water & Wetlands; Woodland. There is also an Education Sub-group and a number of Species Interest Groups (including Barn Owl, Swift, Sand Martin, Tern, and Red Squirrel). The membership of each of these working groups is extremely diverse, ensuring that as many organisations and individuals as possible can be involved in the local biodiversity process.

Public and Community Outreach: The Written Word

Within ten months of the Co-ordinator being in place, in September 2001, over a hundred people attended the Partnership’s first seminar, hosted by SNH. Each sub-group set up a ‘Habitat Corner’ featuring individual projects and information. Delegates included councillors, local authority heads of department, businesspeople and landowners, representatives from local environment and community organisations and many statutory and non-governmental bodies. Such “public outreach” by the Partnership has continued ever since with seminars, workshops and lunch-time seminars being held every year.

From the outset, two sets of exhibition boards, funded by SNH, toured the area extensively – including libraries, Country Parks, local authority offices, museums and tourist information centres, plus the Dundee Botanic Gardens and the Birnam Institute. They have been featured regularly at the Angus Show, Countryside Festival (Glamis), Dundee Flower Shows and the Angus Walking Festival. The need to have a display to lend to schools and businesses, as well as regular use at agricultural shows, highland games, community fairs and flower festivals, led to two much lighter-weight banners also being funded.

In 2001, the Partnership pioneered a paper-saving idea by offering a mini CD-ROM version of the Consultation Draft; the local press featured the Tayside company that undertook the mini CD work for its part in saving resources. Many LBAPs (including Tayside) have since been published in CD format. To coincide with the publication of the Consultative Draft, a newsletter “From Summit to Sand” was also produced; its integral “What You Can Do to Help” poster proved popular with local schools. In 2002, the Tayside Biodiversity Action Plan was published in both paper and CD versions; in due course it was also added to the Partnership’s website.

Since those early days, the Partnership has reported back on projects and filled the information gap with booklets, newsletters and advisory leaflets. These include:

- Newsletters – “From Summit to Sand”; Barn Owl; Red Squirrel; Swifts in Tayside
- A summary booklet (including a reprint): “An Introduction to the Tayside Biodiversity Action Plan”
- “Biodiversity in Community Gardens, Orchards and Allotments – Making Way for Nature”
- “Traditional Orchards in Tayside – a Guide to Wildlife and Management”
- “Tayside Green Kirk & Graveyard Initiative”

Before the Scottish Government prepared its guidance on how to comply with the biodiversity duty enshrined in the Nature Conservation (Scotland) Act 2004, the Partnership prepared its “Incorporating Biodiversity into Local Services” handbook. This was prepared to help promote specific biodiversity action within local authority departments and the Community Planning Partnerships.

The publication was followed by a separate Planners and Developers’ Manual. This consists of two general leaflets: “Householders’ Guide to Biodiversity” and “Biodiversity – a Developer’s Guide”, together with “A Guide to Incorporating Biodiversity into Development” and a suite of Biodiversity Advice Notes.

To engage the wider public, various publications have featured key species within Tayside - for instance:

- Tayside Terns: Information and Code of Practice;
- Tayside’s Farmland Priority Species Guide;
- ZOOM Bumblebee survey;
- Have you Seen a Barn Owl survey;
- Tayside Swift Survey.

Biodiversity Information Hub for Tayside

One of the Partnership’s key roles has been in awareness-raising – as shown above. By working constantly with Partnership members, the Co-ordinator has ensured that Tayside’s biodiversity successes (and its all-important partnership-working) are

known, not just within Tayside, but Scotland-wide and across the UK. With the setting up of the Partnership's website in 2005 – www.taysidebiodiversity.co.uk (which in 2008-09 attracted 546,353 hits) – and regular articles in both the local and national press – local projects have received wide acknowledgement. This in turn has encouraged volunteers to offer their help to many Partners because of an increased sense of receiving credit for their work.

Partnership projects and events have been featured on TV, radio, and the general press, including:

- BBC Radio Scotland, all Dundee radio stations, Heartland FM;
- STV, BBC Scotland, www.bbc.co.uk, www.visitscotland.com, www.perthshire.com;
- Sunday Times; Scotland on Sunday; UK Biodiversity News, Resurgence Magazine, National Orchard Forum Newsletter;
- Scottish Biodiversity Forum News, FWAG Scotland Magazine, Scottish Native Wood Newsletters, SEPA View; Eco-Congregation Scotland News; Trellis Scotland "Propagator" News;
- Angus FWAG / Perthshire FWAG and Fife & Kinross FWAG Newsletters;
- The Courier, The Press & Journal, Montrose Review, Forfar Dispatch, Kirriemuir Herald, Brechin Advertiser, Arbroath Herald, Kincardine Observer, Perthshire Advertiser;
- Westmuir Community Newsletter – and many other local dispatches.

Felicity Martin's regular 'Let's Go Outside' feature in the Perthshire Advertiser has included coverage of Tayside Biodiversity Festival, Scottish Biodiversity Week, Red Squirrels, Swifts, Carse of Gowrie orchards, and the Carse of Gowrie Orchards Festival, as well as topics such as Red Kites, Sea Eagles, ancient trees, native woodlands and various nature reserves. The Angus Courier has also been very proactive in covering stories from TBP as well as its Partners.

Annual input into the Scottish Biodiversity Week celebrations (averaging between 20 and 30 events per year in Tayside) led, in 2009, to the first Tayside Biodiversity Festival. From May 1 - 10, 58 events took place. The Co-ordinator worked with the Dundee Science Centre to bring the "What on Earth is Biodiversity" exhibition to Scotland – it featured in Dundee for 3 months, including during the Festival, and was also shown in Aberdeen. The interactive exhibition was designed and funded by the Biotechnology & Biological Sciences Research Council and the Natural Environment Research Council; it enabled Dundee Sensation to make direct links with science and biodiversity in its own programme of events. Dundee Contemporary Arts held their selection of international Wildscreen films during the Festival and Partners right across Tayside contributed to walks, talks, exhibitions and events. There are no figures available for the number of people who found out about biodiversity through the Festival: an informed estimate is 10,000.

As a result of the increased publicity about biodiversity, the media appear to be much more interested in wildlife issues and encouraging biodiversity in all its forms – and they are much more supportive of the protection of native wildlife than they were five years ago.

Funding Local Biodiversity Action

Over the years, the SITA Trust has been extremely supportive of the Partnership – starting in November 2000 when it contributed funds for the employment of the Co-

ordinator until March 2004, together with the publication of the Tayside Biodiversity Action Plan. From 2004, Scottish Natural Heritage and the three local authorities (Angus, Dundee City, and Perth & Kinross) took over the funding of the Co-ordinator with much in-kind help from other Partners and funding for specific projects by Forestry Commission Scotland. As from 2010, Scottish Natural Heritage funding will stop.

During this period, the key players for funding biodiversity projects throughout Scotland were inundated with requests. Very little extra project funding was available, although the Scottish Government's "Biodiversity Action Grant" (available only between 2004 and 2007) proved exceptionally popular and helped fund a £25,000 Barn Owl Project across the lowland areas of Tayside, Fife, Stirling and Clackmannanshire. With the publication of the Tayside Biodiversity Action Plan, however, the swamping of existing funds put a strain on ensuring any of its actions could be achieved.

In 2005, the SITA Trust once again offered help and the Tayside Biodiversity Action Fund (TBAF) was launched in September 2005 to deliver local biodiversity conservation in line with the Landfill Tax Credit Scheme. It is the only SITA Trust fund in Scotland and the Partnership has been extremely fortunate to have £100,000 per year to distribute to local biodiversity projects.

Between September 2005 and March 2009, the SITA Trust allocated £447,724 to 49 practical "on the ground" projects throughout Tayside. The total leverage of these projects is nearly £870,000. Very few, if any, of the projects would have gone ahead without the funding from the SITA TBAF, so this is direct "work on the ground" being funded for the Tayside area. The list of projects is given in Appendix 5.

Furthermore, all the SITA TBAF projects have been entered onto the UK Biodiversity Action Recording Scheme (BARS): a web-based information system www.ukbap-reporting.org.uk that supports the planning, monitoring and reporting of national and local Biodiversity Action Plans. Currently there are 1,200 organisations registered across Britain as BARS users. The Tayside Biodiversity Partnership's 50+ projects are also included. Thus local projects, including the SITA TBAF ones, are being monitored at a national level and recognised as contributing significantly to targets within both the national and local Biodiversity Action Plans.

A small amount of additional funding – the SITA Tayside Biodiversity Promotions Fund – has enabled items not normally covered by the landfill tax monies to also be funded. This has included the tea towels for the Tayside Lochs Project and biodiversity pens for the Orchard and Biodiversity Festivals 2008 and 2009. Many of the Partners have also been able to contribute small-scale funds for specific projects, especially the three local authorities and Forestry Commission Scotland.

Projects

In 2007, a list was drawn up of 50 projects that each Sub-Group and Interest Group would take forward. Since then the Partnership's focus has been on this shortlist. However, the biodiversity process is inherently dynamic, so by 2009 the opportunities to further biodiversity within Tayside had grown to 56. These projects are reported on a quarterly basis to the Partnership's Steering Group and are listed on the UK BARS website.

Local councillors across Tayside are very supportive of, and active in, Partnership projects, alongside local MSPs working with different Partners and local MP Pete Wishart participating in projects at Inchewan Burn and visiting the new Carse of Gowrie orchard project. The Minister for the Environment, Roseanna Cunningham, gave the keynote speech at the Birnam Wild Harvests Conference and made a separate visit to the Carse of Gowrie Orchard Project.

A separate list of the priority projects is attached as Appendix 3. Just a few successes are listed below (with further details given in Appendix 4).

Project Title	Priority Project	Key Partners	Benefits	SITA TBAF Funding	Comments
Dundee Red Squirrel Project	Tayside Red Squirrel Project	Sustain Dundee	<ul style="list-style-type: none"> Control of Grey squirrels setting up of supplementary feeding stations (to improve breeding success of Red squirrels) increased awareness of an iconic species 	£14,750 (total project costs: £38,750)	The Dundee Red Squirrel Project led to the Tayside Red Squirrel Project which is now part of the Scottish Wildlife Trust's Save our Squirrels Project
Swift/ Bat Housing Project	Tayside Swift Project	Angus Council	<ul style="list-style-type: none"> Provision of Swift and bat boxes on William Wallace House and St Margaret's House, Orchardbank, Forfar (Angus Council Housing Dept.) Awareness-raising amongst local authority staff 	£4,424 (total project costs: £6,744)	As part of the Tayside Swift Nestbox Trial Project, this very public demonstration site has proven to be extremely useful in publicising the need to safeguard existing swift nest sites as well as providing new ones.
Dundee Bat Project	Mammal Atlas	Bat Conservation Trust	<ul style="list-style-type: none"> 200+ volunteer hours 38 survey squares achieved revitalised local bat group led to 5 similar projects in England and Wales led to Perth Bat Project 2010 information provided to the UK Bat Monitoring Programme (and 	£9,660 (total project costs: £20,570)	A small-scale project with long-term benefits, not just in revitalising the local Bat Group, but in informing local planners, developers and bodies such as the University of Dundee of the presence of an EU Protected Species to assist with their forward

			reporting back to the UK Bat Species Action Plan).		plans.
Highland Perthshire Calcareous Grassland Project	Highland Perthshire Calcareous Grassland Project	Scottish Agricultural College	<ul style="list-style-type: none"> worked with local farming community to set up and manage demonstration sites of grassland managed for invertebrates Training and survey undertaken to check status of Mason bee (one of only two known sites in Scotland) 	£15,778 (total project costs: £22,764)	Public walks during the summer brought together the local community, visitors and species specialists alike.
Linnet Link	Farmland Birds	(Angus FWAG and Angus Council)	<ul style="list-style-type: none"> enhanced cycle track for improved safety and enjoyment of route provision of habitat to encourage a greater number of breeding linnets to use the surrounding area. 	£13,530 (total project costs: £15,280)	Provision of new native shrub plantings along A92 cycle track
Following the Life of Water	Tayside Ponds Project	Broughty Ferry Environmental Project	<ul style="list-style-type: none"> amphibian hibernacula created at Broughty Ferry library restored key urban ponds in Eastern Dundee/ Broughty Ferry. 	£18,370 (total project costs: £31,770)	A community-based focus on the theme of water which raised awareness of the habitat and the species it supports.

The Tayside Biodiversity Partnership has enabled much wider associations than would have been possible otherwise, with BFEP being able to interact with organisations and people across Central Scotland, the Dundee and Perth City Bat Projects spreading UK-wide, and Tayside-wide projects involving collaboration with other Biodiversity Partnerships. Within the Partnership, pilot projects have been launched in one local authority area and rolled out (as ‘best practice’) to the other local authority areas – two examples being the Green Graveyard Initiative and the Urban Grassland Initiative.

The Co-ordinator has specifically taken forward projects linking local communities with biodiversity – for instance from liaison with small organisations in Braco and Glenfarg (both in Perthshire), there is potential for three or four small-scale projects being considered under a “Biodiversity Village” banner – and the opportunity to set up similar projects across Tayside.

Student Placements

In 2007, by working with the national Business Environment Partnership, biodiversity input was achieved into one of their Sustainable Development placements with Hillcrest Housing Association, Dundee. This led to good relations with the Association which is slowly burgeoning into a number of small-scale community projects.

Additionally, by taking part in the Dundee University Student Placement Service since mid-2008, the Partnership has been able to achieve tasks much more quickly and support 11 students in giving them work experience in the biodiversity process.

In 2008-09, seven students assisted with the organisation of the Orchard Festival and Tayside Biodiversity Festival, prepared a Tay Wader & Wildfowl Audit, input Swift Survey results into a database, and prepared case studies for four Habitat Action Plans - Burial Grounds, Traditional Orchards, Community Gardens, Orchards and Allotments, and Ponds and Pools.

In 2009-10, four more students are helping prepare a Tayside Recorders' Forum listing and webpage, reviewing the website, and planning the 2010 Tayside Biodiversity Festival.

Without this free help, the work of the Partnership would be very much slower – and the students have gained work experience and made excellent contacts to help further their careers.

Project Outcomes - Attitudes

Partnership projects are engaging a very wide group of people, many of whom would not normally engage in biodiversity; the understanding of what biodiversity is and involvement in projects has increased greatly in the past few years. Aspects of the environment which are often seen negatively - such as bats - are now viewed more positively, and associations between habitats and species are beginning to be understood – the Green Graveyard Initiative, for instance, is raising awareness of habitat management (predominately grassland management) to not only the local authorities, but also local communities, linking in the need for overall site management for specific species – retention of lichens on gravestones, care in renovation of buildings to safeguard bats and swifts, maintenance of boundary walls for their fauna and flora value, planting of wildlife-friendly trees, shrubs and flowers.

Although the influence on the wider community is difficult to put into economic figures, it is now very much easier to engage with the community than five years ago because the level of understanding has increased. There is a much greater willingness to discuss changes in management or to agree a compromise than before.

This level of greater awareness is evident in both the public and organisations - along with greater knowledge of how to resolve these issues with actions on the ground. With the work of the Partnership, local authorities are more aware of their duties and are making better use of the resources available from the Partnership to ensure they act appropriately - examples include the Partnership's Biodiversity Advice Notes, its Manual for Planners and Developers, and the general information available from the Biodiversity Office (on the distribution of Barn Owls and Swifts for planners, for instance, and booklets on orchard or community garden/allotment management).

The Partnership offers a valuable “one stop shop” for local environmental information. With a “working” Partnership of so many organisations, all with local, regional and national contacts, good quality, reliable information and advice can be fed back to the enquirer promptly. Such is the standing of the Partnership that enquiries are not just confined to Tayside: the Co-ordinator quite often fields requests for information from England, Northern Ireland and Wales.

The Partnership also offers a focus to allow people and organisations to see how local projects fit into a bigger picture – a small community gardening project in Dundee, for instance, can access advice from the Partnership by way of its “Community Gardens, Orchards and Allotments” booklet or advice from the Co-ordinator, and then be able to make contact with national organisations such as Trellis, the Scottish Allotments and Gardens Society, Garden Organic – as well as regional organisations such as the Perthshire Organic Growers or the SEER Garden. Coupled with funding advice, small-scale projects can often result in company-wide projects, as is happening with the Hillcrest Housing Association and the Candle Lane Residents’ “Courtyard Biodiversity” Project. A similar project is likely to take place for a Backies Community Orchard in Dundee, with Dundee City Council taking the new project forward.

Many businesses are more ready to consider biodiversity in their plans now, for example, the over-subscription of the biodiversity section of SRDP Rural Priorities shows how ready many farmers and businesses are to include biodiversity aspects. With the work of Tayside Biodiversity Partners such as Lockett Agri-Environment and Littlewood Land Care, farmers and landowners are now much more aware of how they can help safeguard Barn Owls, and some of the owners and managers of good species-rich grassland sites are more aware of their value and of best management practices. This expertise is also emerging within the local authorities, universities and housing associations that are now more aware of biodiversity benefits in urban greenspace management – and how to publicise/market them.

Therapeutic Value of Biodiversity

A national NHS Scotland biodiversity seminar was to be held in Stirling but, because of good relations in Tayside, this prestigious event will now take place during the Tayside Biodiversity Festival next May in Dundee. This will enable the new NHS Hospital Greenspace Project to highlight its first Scottish pilot project at Ninewells. Dundee City Council, Forestry Commission Scotland and the Partnership are involved in what promises to be a high-profile opportunity to raise awareness of the use of hospital grounds as therapy for patients and to demonstrate the quality of the hospital’s environment in visual, landscape and environmental terms. Plans are being made to roll out the project to other hospitals in Tayside and beyond in the future.

On a smaller scale, the Angus Ranger Service, with SNH funding, has for the past 8 years been running a highly successful Sheltered Housing Biodiversity Project, encouraging an interest in wildlife within a number of care homes by providing binoculars, identification charts and talks/visits. The project is now extending to Perth & Kinross. In the meantime, international artist/designer Joanna Kessel involved the Partnership in her NHS commission for artwork on a biodiversity theme at the new Macmillan Centre in Perth.

CASE STUDY

Carse of Gowrie Orchard Festival 2009

A survey of the Carse orchards in 2007 galvanised Partners into action when it was discovered that of 51 known orchards only 9 had any premier heritage interest. Although nearly all the orchards have been neglected, this will invariably mean they have a very high biodiversity value and a priceless genetic resource preserved in the rare varieties of plum, pear and apple. In raising awareness of the veteran trees, the biodiversity message is just as important as help in improving their yield. To safeguard the orchards it will be necessary to reintroduce their economic value – and to save the genetic heritage of trees nearing the end of their lifespan.

Innovation and Community Participation: the Festival attracted in the region of 3,500 participants and was the first of its type in eastern Scotland – neither Historic Scotland, nor the Glendoick Garden Centre had considered being part of such an event before; the latter reported their greatest footfall to any event held at the garden centre. In 2010 the Orchard Festival will be widened to encompass all of Tayside, bringing even greater benefits to those involved in safeguarding veteran orchards and those setting up new community and school orchards. The 2008 Orchard Festival was funded by LEADER, Perth & Kinross Countryside Trust and much in-kind assistance by Glendoick Garden Centre, Historic Scotland and volunteers. It attracted a great deal of media interest, including a special two-page article in Scotland on Sunday and a mention in the Sunday Times, plus an interview for the BBC Scotland “Out of Doors” programme.

Economic Growth and Tourism - the small-scale cider-making course provided technical expertise to two local companies thinking of starting a micro-business and 18 orchard owners who wanted to expand their knowledge on how to use the produce from their trees. Cairn o’Mhor Winery went on to produce Tayside’s first locally-sourced cider; its Carse apple juice has since been chosen by Gleneagles Hotel as its “morning fruit juice”. The Glendoick Apple Weekend proved an excellent networking opportunity for local orchard contacts and producers alike: this led to two additional evening seminars during 2009 to bring businesses and orchard owners together to discuss joint marketing initiatives and the development of local supply chains.

Although Historic Scotland’s smaller properties will close for the winter in September 2009, the success of the 2008 Family Fruit Weekend at Elcho Castle will lead to it opening especially for the second Festival. Elcho will also host a delegation of Diageo staff from Gleneagles Hotel on a special visit during the Festival. Thousands of Historic Scotland members receive free text messages alerting them of events, showing the added value of working with such key Partners. Last year an American couple holidaying in Oban received such a text and made a special journey to Perthshire to see Elcho’s display of 100 Scottish heritage varieties of fruit.

Protection of the Environment – there is now a much greater desire to safeguard existing traditional orchards and an interest in planting new school and community orchards with Scottish heritage varieties. New plans for an Orchard 800 project as part of the Perth 800 celebrations are underway; Angus Council will be planting over 40 school orchards.

One of the outcomes of the Festival was the publication of the Tayside Traditional Orchards booklet – based on the People’s Trust for Endangered Species booklet, the Tayside version was totally re-written with the blessing of the PTES. The charity is now using the Tayside version to prepare its own 2nd Edition for England; other Orchard Groups elsewhere in Britain are following suit.

Overall, the Festival fully integrated into the local Community Plans and contributed directly to the aims of the draft Tayside Traditional Orchards Habitat Action Plan, and the UK Traditional Orchards Habitat Action Plan, both of which are helping to focus the vital importance of the Carse Orchards in the Scottish context.

Professional Development Opportunities for Local Authorities (and Partners)

The Partnership's "Building Better Biodiversity" series of seminars and workshops has been an ongoing source of information since May 2003. Between this date and the end of March 2009, 1,304 people attended the training courses. The true cost of the training opportunities would suggest that at least £63,200-worth of training has been made available to Partners

- Lunch time seminars - 30 x lunch time seminars – 644 people x £25 = £16,100
- Half days - 60 people x £35 = £2,100
- Full day seminars - 600 people x £75 = £45,000

Additional benefits have occurred over this time too – all those giving of their expertise have had the opportunity to further their own objectives and achieve "awareness-raising targets" to key audiences. In many cases, participants have also had the opportunity to meet a local representative of a national organisation – and to have access to them by way of e-mail or telephone afterwards. This is particularly true of Dusty Gedge of London-based Living Roofs and John Little of the Grass Roof Company. A half-day workshop held in Perth in 2004 introduced the concept to a local audience of architects, planners and landscape designers and led to similar events in Glasgow and Edinburgh. In 2009, generous sponsorship from Hertalan and contributions from the Dundee Architects Institute and the three local authorities enabled a practical workshop to take place in Dundee. Dusty Gedge also played a part in the Partnership's "Greenspace and Biodiversity" seminar held in Forfar. Following the publicity for the events, enquiries were received from organisations across Scotland interested in creating their own green roof.

Those organisations that have given seminars and workshops in Tayside include:

Concern for Swifts Scotland; Scottish Badgers; British Herpetological Society; Forestry Commission Scotland; Scottish Natural Heritage; Butterfly Conservation Scotland; Living Roofs (and Alumasc Exteriors); SEPA; Scottish Biodiversity Forum; Scottish Golf Environment Group; Scotia Seeds; Kyle of Sutherland District Salmon Fishery Board; Tweed Foundation; Arboretum Internationale; RSPB; Eden Ecology; RPS Planning & Development Ltd; Tayside Police (Wildlife Liaison); Fife Ranger Service; FWAG Scotland; Scottish Children's Orchard; Buglife Scotland; Gaia Group; London Swifts; Green Roof Company; World Wildlife Fund; Highland Biological Recording Group; Tullie House Museum (Carlisle); British Trust for Ornithology; North East Biological Records Centre Saving Scotland's Red Squirrels; River Restoration Centre; Moray Council; Stirling University; Rivers & Fisheries Trusts for Scotland; Fisheries Research Service.

Staff from Angus and Perth & Kinross Councils have also shared their expertise, including the Ranger Services and Museums.

Building Better Biodiversity Training Courses

	Host	Training Course Title	Format of Event*	Comments *
2003-04				LTS – lunch time seminar; HD – half day; FD – full day
150 attendees				
	DCC	Swift Nest Site Conservation	LTS	
	DCC	Verges and Wildlife Corridors for Reptiles and Amphibians	LTS	
	AC	Badgers in Tayside	LTS	
	AC	Bats in Bridges and Buildings	LTS	
	PKC	Planning for Barn Owls	LTS	
	Angus FWAG	Hedge Management (i) Machinery demonstration; (ii) Hedge Management for Biodiversity	HD/ FD	
	Forestry Commission Scotland	The Care and Management of Urban Trees	FD	45 Local Authority staff from across Central Scotland attended: planners, landscape architects, woodland officers and countryside rangers from seven local authorities - Angus, Dundee, Perth & Kinross, Edinburgh, North Lanarkshire, Fife and Clackmannanshire. A number of Perthshire Tree Wardens also attended, as did several private consultants and Biodiversity Partnership members. The Perth Provost chaired the seminar.
2004-05				<i>The audience widened out to include staff from many different Council departments, housing associations, Dundee Sustainable Construction Group and Dundee University, private business people, consultants, and naturalists.</i>
170 attendees				
	PKC	Grassland Management in Green Graveyards and Urban Spaces	LTS/HD	The additional afternoon visit to local graveyards in Perth was well attended.
	PKC	Managing Watercourses for Water Vole, Otter and Other Priority Mammals	LTS	
	PKC	Butterflies on Brownfield Sites: Options for Management	LTS	
	PKC	An Introduction to Living Roofs	HD	From this introduction of the subject to Scotland, other LBAP Partnerships invited Mr Gedge back to head conferences in Glasgow & East Dunbartonshire.
	SEPA	Habitat Enhancement Initiative	LTS/HD	The additional afternoon visit to a wet grassland site west of Perth was well attended.
	DCC	Best Value, Community Planning and Biodiversity	LTS	
	DCC	Greening the Golf Course: Managing the Golf Course with Biodiversity in Mind	LTS	The latter led to two workshops being held for greenkeepers – see below.
	AC/PKC	Greening The Golf Course Workshops (held at Carnoustie and Blairgowrie Golf Clubs)	FD x 2	49 delegates attended, representing 26 golf clubs from across Tayside and Fife.

2005-06				<i>the popularity of the events (240 people) saw attendees from neighbouring LBAP Partnerships – and led to other LBAPs offering similar events.</i>
240 attendees				
	PKC	Swift Nest Site Conservation	LTS	
	PKC	Bats in Buildings and Bridges	LTS	
	PKC	Working with Different Generations	LTS	
	Dundee Botanical Gardens	Greenspace Design	LTS/HD	The additional guided afternoon tour of the Gardens was well attended.
	TBP/Fife Ranger Service/SNH	Tayside Field Days (i) grassland management – tour of best practice sites in the Aberfeldy area	FD	
	Angus FWAG/Scotia Seeds	(ii) Tayside Field Days Wildflower Training Day - creation and management of species-rich grassland	FD	
	Fife & Kinross FWAG/RSPB	(iii) Tayside Field Days Farmland Birds Walk	FD	
	TBP (Water and Wetland sub-group)	River Engineering – Solutions for Roads and Fish (Birnam Institute)	FD	100 delegates Presentations included: An introduction to Controlled Activities Regulations; Risk Assessment Approach (both by SEPA); case studies and discussion on Fisheries Improvements (Kyle of Sutherland District Salmon Fishery Board); Pitlochry Flood Event (Perth and Kinross Council); Tweed Fishery Restoration - multi-agency collaboration (Tweed Foundation); Brechin Flood Alleviation Scheme – a partnership approach (Angus Council).
2006-07				<i>fewer events were held owing to Partners being unable to host events free of charge as in previous years.</i>
107 attendees				
	DCC	Protected Species Legislation	LTS	
	PKC	Swift Nest Site Conservation	LTS	
	TBP/PKC	Tayside Field Day - Perthshire Grassland Discussion Tour	FD	
	TBP (part-funded by the Scottish Biodiversity Action Grant)	Planning for Wildlife Seminar - Accommodating Wildlife in Everyday Developments	FD	60 delegates attended from all over Central Scotland. Chaired by the Perth Provost, presentations included: “Biodiversity and Buildings – Protected Species and the Law” (Ben Ross, SNH); “Barn Owls, Buildings and Trees” (Les Hatton); “Development Sites and Wildlife Crime” (Alan Stewart, Tayside Police); “Bats: Nightmare or Added Value” (Keith Cohen, RPS Planning & Development Ltd.); “Making Swifts Good for Business – Examples of Good Practice in Tayside and Beyond” (Clare Darlaston, Concern for Swifts Scotland). Tutorials included: Birds and the Law; Wildlife Law; Bats – Key Issues in Developments; Practical Swift Nest Conservation in Public Housing.
2007-08				<i>Owing to the office move and subsequent disruption at the beginning of the year, much of the ‘Building Better Biodiversity’ programme was</i>
245				

attendees				<i>delayed until later in the year.</i>
	SCRI	Urban Grassland Management	HD	The workshop created an opportunity for PKC to set up a Tayside-wide event "Larks and Parks" with Chester-le-Street District Council staff - a follow up meeting subsequently held with DCC and BFEP enabled a similar project to be rolled out across Tayside.
	TBP/ Dundee Botanic Gardens	Bats and Trees		Delegates attracted from all over Tayside, Stirling and Edinburgh.
	PKC	Bats and Trees		
	DCC	Tree Planting Opportunities with a Difference – The Scottish Children's Orchard		
	TBP	Community and School Orchards Workshop, Errol		
	TBP/PKC	Gardens, Greenspace and Graveyards" Community Workshop		The event officially launched the Green Graveyard Initiative.
	PKC	The first Tayside Recorders' Forum Day		50 delegates - planned by the three local authority Museum Services and the TBP, Professor Price, the Partnership's Chair, chaired the event.
2008-09				
392 attendees				
	PKC	Mitigating for Badgers		
	PKC	Verge Management for Amphibians and Reptiles		Perth & Kinross Council followed with another suite of seminars during the spring of 2009
	AC	Setting the Framework - How is this my responsibility?		
	AC	Wildlife Crime - Council Responsibilities		
	AC	Badgers - Mitigation and the Law		
	AC	Bats in Development		
	AC	Wildlife Issues in Development		
	AC	Greenspace & Biodiversity Seminar		6 acclaimed national speakers
	DCC/ PKC / AC	Swifts in the Built Environment Workshop and a practical		
	DCC/ PKC / AC	Living Roofs Workshop		
	TBP / Forestry Commission Scotland	5 separate practical training courses for Traditional Orchard Management: (i) fruit tree grafting course, (ii) summer pruning, (iii) winter pruning courses, (iv) and (v) small-scale cider making		(part of the Carse of Gowrie Orchard Project)
	DCC	Second Tayside Recorders' Forum Day		34 participants
	TBP (Water and Wetland sub-group)	Sustainable River Management for Biodiversity, Fish and People		7 speakers and an audience of nearly 80.

This report has been compiled by Catherine Lloyd, Tayside Biodiversity Co-ordinator, on behalf of the Tayside Biodiversity Partnership.

Thanks are due to Iain Campbell for his assistance in preparing the original draft and to the Steering Group members and Professor Martin Price who contributed to the report.

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Tayside Biodiversity
The Variety of Life



STEERING GROUP MEMBERS 2009

Pam Coutts	Angus Council
Stewart Roberts	Angus Council
Merrill Smith	Dundee City Council
Alison Anderson	Dundee City Council
Bryan Harris	Dundee City Council
Syd House	Forestry Commission Scotland
Tim Barrett	Forestry Commission Scotland
Carol Littlewood	Littlewood Landcare (formerly Angus FWAG)
Richard Lockett	Lockett Agri-Environmental (formerly Perth FWAG)
Kate Scott	National Farmers' Union Scotland
Ben Notley	National Trust for Scotland
Martin Price	Perth College UHI (Centre for Mountain Studies) (Chairman, TBP, from October 2004)
Graham Esson	Perth and Kinross Council
Esther Rogers-Nicoll	Perth & Kinross Council
Mark Simmons	Perth and Kinross Council
Bruce Anderson	Royal Society for the Protection of Birds
Amy Crowther	Royal Society for the Protection of Birds
Christine Hall	Scottish Agricultural College
Alan Hendry	Scottish Government RPID (SGRPID)
Bruce Campbell	Scottish Environment Protection Agency
Ian Lorimer	Scottish Environment Protection Agency
Martyn Jamieson	Scottish Field Studies Association
Paul Ramsay	Scottish Rural Property and Business Association
Carolyn Deasley (vacant)	Scottish Natural Heritage Scottish Wildlife Trust
Catherine Lloyd	Tayside Biodiversity Co-ordinator
Iain Campbell	Tayside Biodiversity Assistant (part-time)

WIDER PARTNERSHIP LINKS

Some of the organisations which liaised with the Partnership 2006-09 include the following:

- Aggregate Industries
- Angus Countryside Initiative
- Angus FWAG
- Angus Rural Partnership
- Alyth Environment Group
- Ardoch Trust
- Art Angel
- Atholl Estates and Ranger Service
- Axis-Shield, Dundee
- Bankfoot Eco-Congregation
- Bat Conservation Trust
- BEAR Scotland
- BM Cordah, Montrose
- Boys Brigade
- Bridge of Earn In Bloom Group
- British Association for Shooting and Conservation
- British Deer Society
- British Trust for Conservation Volunteers (Scotland)
- British Trust for Ornithology
- Broughty Ferry Environmental Project
- Bumble Bee Conservation Trust
- Butterfly Conservation (Scotland)
- Cairngorms National Park Authority
- Cairngorms Water Vole Project
- Concern for Swifts (Scotland)
- Community Woodlands Association
- Deer Commission for Scotland
- Dunbarney Eco-Congregation
- Dun Coillich Community Buy Out group
- Dundee & Angus Bird Group
- Dundee University
- Duntrune House (Green Tourism member)
- Dundee Botanic Gardens
- Dundee Naturalists' Society
- Dundee Partnership for the Environment
- Dunning Community Association
- Eassie Community Council
- Eco-Congregation Scotland
- Fife & Kinross FWAG
- Fisheries Research Service
- Friends of Baxter Park
- Froglife
- Game Conservancy Trust
- Guild Homes - sponsor

- Guildtown Community Association
- Guildtown Community Association
- Guide Dogs for the Blind (Forfar)
- Heather Trust
- Hillcrest Housing Association
- Historic Scotland
- John Muir Awards
- Kindrogan Field Centre
- Muirhead Sanctuary
- Muirtonhouse Sheltered Housing (Blairgowrie)
- Murton Trust
- Muthill Environment Group
- National Orchard Forum
- Perth & Kinross Tree Wardens
- Perthshire FWAG
- Perthshire Housing Association
- Perthshire Organic Growers
- Plantlife International
- PriceWaterhouseCooper;
- Scottish Allotments and Gardens Society
- Scottish and Southern
- Scottish Crop Research Institute
- Scottish Golf Environment Group
- Scottish Native Woods
- Scottish Nature
- Scottish Sustainable Construction Forum
- Scripture Union (Lendrick Muir)
- Sense Scotland
- Tay Estuary Forum
- Tay District Salmon Fisheries Board
- Tay Ringing Group
- University of Dundee
- Westmuir Community Group
- Wildfowl and Wetlands Trust
- World Wildlife Fund
- VisitScotland

Plus numerous schools, angling clubs, churches, businesses and golf clubs.

BUSINESS PLAN 2007-10: PROJECT PRIORITY LISTING (as at March 2009)

1.	Links Golf Course Initiative
2.	Dune Habitat Restoration
3.	Tayside Terns
4.	Firth of Tay Wader & Wildfowl Audit
5.	Nature on Track
6.	Tayside Barn Owl Projects
7.	Highland Perthshire Calcareous Grassland Project
8.	Farmland Birds
9.	Perthshire & Angus Treelines
10.	Farm Buildings for Biodiversity
11.	Enhancement of Irrigation Ponds
12.	Saving the Small Blue Butterfly
13.	Operation Bumblebee
14.	Wet Grassland for Waders
15.	Living Field Study Centre
16.	Perthshire Hedgerow & Tree Project
17.	“ZOOM” Bumblebee Project (originally Local Patch Project) and ZOOM In2 Project
18.	Invasive Species
19.	Tayside Green Graveyard Initiative
20.	Tayside Swift Project
21.	Tayside Red Squirrel Project (incorporating the original Red Squirrel Conservation Project)
22.	Urban Watercourse Initiative
23.	Sand Martins in Tayside
24.	Urban Grassland
25.	Green/Living roofs
26.	Community Gardens, Orchards & Allotments
27.	Acoustic Ecology
28.	Highland Tayside Paths Impacts Project
29.	Tayside Upland Heath Project
30.	Tayside Upland Butterfly & Moth Conservation Initiative
31.	Tayside Ponds Project
32.	Perth Lade Enhancement
33.	Mammal Road Death Survey
34.	River Earn Invasive Species
35.	River Tay Tributary Initiative
36.	Salmon in the Classroom
37.	Water Vole and Mink Project
38.	Freshwater Pearl Mussel
39.	Tayside Lochs Project (Fingask & White Lochs)
40.	Friarton Ponds Project
41.	Green Tourism Scheme
42.	Woodland Management Awareness
43.	Management of Non-Timber Forest Products
44.	Wildlife Tree Project
45.	Woodland Grazing Initiative
46.	Ancient Tree Hunt
47.	Tayside Juniper Project

48.	Tayside Orchards Project (incorporating the Carse of Gowrie Historic Orchards Project, Orchard Festival and Orchard 800)
49.	Sheltered Housing & Hospitals Biodiversity Project
50.	Tayside Biodiversity Festival
51.	Mammal Atlas
52.	Countryside on Wheels Farm Bus
53.	Bee Wild Communities and Schools Project
54.	Community and Education Biodiversity Awards
55.	Practitioner Training (Building Better Biodiversity)
56.	Geodiversity Trails

Appendix 4

Partnership Projects - Examples

Tayside has an exceptionally rich biodiversity and is a nationally important area. Specific examples include:

- the internationally significant upland populations of Alpine fleabane and Alpine gentian;
- the internationally important groups of Dolphins and Porpoises in Tayside's coastal waters
- the River Tay catchment's importance in Britain for Atlantic Salmon;
- the important concentrations in the Tay Estuary SAC and South Esk SAC of Freshwater pearl mussels (Scotland holds 60% of the world's population);
- The Slender naiad - a plant found exclusively in Scotland: present in the Loch of the Lowes chain of lochs;
- 50% of the world's over-wintering population of Pink-footed geese;
- 30% of the UK's breeding population of Osprey.

All these species have numerous - and often unique - threats causing loss or decline; these are outlined in the Tayside Biodiversity Action Plan. Local and national partnership working, together with targeted actions, is highlighting opportunities and potential projects to turn these challenges into positive outcomes directly contributing to UKBAP objectives and targets. Arising from the priority listing drawn up for 2007-10 (Appendix 3) and the opportunities shown by the SITA Tayside Biodiversity Fund grants, the following is a small selection of projects being undertaken by Partners and the Partnership:

Local Authorities - small-scale projects within individual graveyards, as part of the Tayside Green Graveyard Initiative, have helped to involve local schools in biological surveying and photographic projects which are now leading to input by nationally-recognised lichenologists and entomologists. Dundee City Council operative staff received practical training in greenspace grassland management (via the BFEP and Fife Council). The Partnership also proffered technical assistance in the preparation of the Perth & Kinross Council Committee Report regarding change of management of PKC greenspace (graveyards, parks, etc.). A morning workshop for senior staff was also arranged at Angus Council to suggest a way forward for greenspace management with biodiversity in mind. All this contributes to the local authorities (and office holders) compliance with the duty to further the conservation of biodiversity under the Nature Conservation (Scotland) Act 2004.

Broughty Ferry Environmental Projects (BFEP) – already a highly successful local group, additional biodiversity input has ensured that this community-led organisation has contributed to both local and national targets in a number of projects, including Following the Life of Water; ZOOM (bumblebee); practical dune management; the wide-ranging Dighty Connect project; Wildflower Meadows and Sound Parks; biodiversity mosaics, the Sand Martin Project and the mobile bathing machine - the latter is a community focus for marine interpretation. The BFEP has involved over 2,600 people in their biodiversity projects and participated in events linked to the Partnership. Two of its local projects have been rolled out across Tayside via the Partnership – the ZOOM Bumblebee Pack and Survey; and the ZOOM In2 local patch photographic project.

Scottish Agricultural College (SAC) and Farm & Wildlife Advisory Group Scotland (FWAG) - over 250 participants took part in the various Barn Owl projects (Tayside Barn Owl Project, Upland Barn Owl Project, and Barn Owls of Lowland Scotland). By working with four other LBAP Partnerships, £25,000 funding was obtained from the Scottish Biodiversity Action Grant Scheme and led to a Central Scotland awareness-raising campaign. The Partnership has been running a long-term postcard survey to ascertain the actual Tayside distribution of Barn owls – in excess of 300 responses have helped produce a Tayside Barn Owl Distribution Map which has been made available to the three local authorities. Through the survey, advice to the farming community and planners to prevent destruction of nest sites has become easier. With the Nestbox projects, the area being used by Barn owls in Tayside has expanded (with in excess of 60 nest boxes erected).

FWAG and Angus Council - the Linnet Link Project would not have gone ahead without the Partnership and TBAF funding and will result in an improvement of the links between habitats suitable for Linnets along the Arbroath/Dundee cycle track. Importantly, the work will improve the aesthetics of the area for those using the track.

FWAG - 243 Tree Sparrow nestboxes were provided across Tayside, heavily involving the local farming community and involving a P5 class of 31 children at Woodlands School in Carnoustie – along with other projects, overall awareness and support for biodiversity has increased greatly via the Eco schools.

The Angus Glens Treelines and Perthshire & Angus Treelines projects involved over 200 participants between them and achieved an increase in the number and length of treelines throughout Tayside – 2,070 trees were planted to restore degraded treelines and extend existing treelines.

SAC - the Highland Perthshire Calcareous Grassland Project and the Highland Perthshire Water Vole Project were both taken forward by SAC and would not have gone ahead without the Partnership; over 80 participants were involved in these projects. Awareness of the value of grasslands has increased, especially with the setting up of four restored sites as demonstration sites.

SEPA – reporting back to the UK Mesotrophic Lakes Steering Group, SEPA has been leading on a Scotland-wide lochs project to achieve a reduction of diffuse phosphate pollution. The Partnership is working with SEPA and local organisations on five Tayside lochs projects – the first was led by FWAG. The White and Fingask Lochs Recovery Project (Blairgowrie, Perthshire) involved an estimated 40 participants at first, but 250 tea-towels on “Make the Link with your Sink” have now publicised the project to all local septic tank owners, local schools, hotels, the hospital, sheltered housing and the golf club. The work on the ground has achieved a reduction of diffuse phosphate pollution in the lochs. The poster about the

partnership project achieved an accolade at a national conference held at Battleby; the Co-ordinator will take the poster to the 2009 UK Biodiversity Conference in York.

Forestry Commission Scotland (FCS) - working towards both UK and Local Biodiversity Action Plan targets, the Forestry Commission's work on both private and public land (the latter supported through Government core funding and partnership work) has seen a woodland expansion of c. 4,000ha in the last five years, about 80% of which is native, with ongoing work on SSSIs to achieve recovering favourable condition. The FCS has been instrumental in ensuring Partners can take forward the Carse of Gowrie Orchard Project.

Scottish Native Woods - the Tayside Aspen Project was adapted from the Highland Aspen Project and funded by the SITA TBAF; three members of staff have been working on this project. SITA TBAF funding also provided a significant boost for the Inchewan Burn Project.

Bat Conservation Trust (BCT) - the Dundee City Bat Project involved 27 volunteers in 2007 and went on to inspire five similar BCT projects in Wales and, closer to home, the Perth City Bat Project. As a key biodiversity project is planned on the Perth Lade, the Partnership was able to encourage the incorporation of a specific bat survey so that its results could advise the future management plan for the Lade; a similar survey will help monitor the upgrading of Perth High Street with its removal and reinstatement of trees. The Dundee City Bat Group has also recorded a greater concern from developers regarding bats, with enquiries received seeking information on bat populations in areas of development. Awareness of bats has been raised by Dundee City Bat Group's work in conjunction with the Ranger Service at Camperdown, with the general public and family groups being involved in hands-on activities which have encouraged an active enthusiasm for bats.

Perth & Kinross Countryside Trust and Forestry Commission Scotland - the Carse of Gowrie orchard conservation project would not have gone ahead without the Partnership jointly working with Forestry Commission Scotland and Perth & Kinross Countryside Trust. Following an Orchard Seminar in 2007, the Carse of Gowrie Historic Orchard Forum was set up and has met every two months ever since. The orchard owners and those with a keen interest in the veteran orchards of the Carse are discussing setting up a museum orchard to open to the public, as well as liaising with producers in creating a market for the fruit in existing orchards.

An Orchard Project Officer will now take the project forward for the next three years which will enable the Partnership to widen the project to the rest of Tayside. Angus Council is already planning a School Orchards Project (40 schools); Perth and Kinross Council may lead on the Orchard 800 project as part of the Perth 800 celebrations and Dundee City Council is considering a City Orchard Trail. The Co-ordinator is also working with local community groups and housing associations in encouraging the planting of new community orchards. There is also likely to be an alliance with Stirling-based Grounds for Learning who may base their pilot Scottish School Orchards project in Tayside.

Other Partnership Projects – Partnership assistance also helped move forward Red Squirrel and Capercaillie conservation, Upland Black grouse projects, wetland work for newts, riparian habitat management, Juniper and Small cow-wheat conservation/expansion in Perthshire, woodland management for invertebrates, Pine Marten and Otter conservation work, and the safeguarding of the nesting Ospreys at Loch of the Lowes.

Tayside Biodiversity

The Variety of Life



SITA TAYSIDE BIODIVERSITY ACTION FUND PROJECTS

Up to March 2009

Organisations	Projects	Amounts	Summary & progress	Contacts
<i>Forest Research</i>	Small Cow-Wheat Species Recovery Project (Perth and Kinross)	£23,100 (total project leverage: £31,770)	Habitat creation to recover the rare Small cow wheat plant by collecting seeds from 3 donor sites within Scotland and nurturing them on 3 sites within Perthshire. <i>Project completed</i>	Alice Broome, Alice.broom@forestry.gsi.gov.uk
<i>Broughty Ferry Environmental Project</i>	Following the Water of Life (Dundee)	£18,370 (total leverage: £30,890)	The three year project theme was water, both in terms of the habitats it provides and the species it supports. The first stage of the project included building an amphibian over-wintering habitat near a local pond located at Broughty Ferry Library. The second phase of the project focused on the restoration of a number of urban ponds across Eastern Dundee and Broughty Ferry. The third phase of the project undertook work on 5 urban wet grassland sites across Dundee. <i>Project completed</i>	Ann Lolley, Environ.projects@dundee.gov.uk
<i>Forest Research</i>	Juniper Natural Regeneration Trials (Perth and Kinross)	£19,304 (total leverage: £25,818)	Three year habitat management project to regenerate Juniper, a UKBAP priority species. The project monitors the impact of summer grazing by cattle at two identified sites in Perthshire. <i>Project in progress</i>	Alice Broome Alice.broom@forestry.gsi.gov.uk
<i>Angus Council</i>	Artificial Sand Martin Wall	£10,029 (100%)	Habitat creation through the construction of artificial sand martin wall within Crombie	Tom McGrath, monikipark

	(Angus)	funding)	Country Park. <i>Project completed</i>	@sol.co.uk
<i>Tay Ringing Group</i>	Saving Tayside's Ring Ouzels (Angus)	£1,065 (total leverage: £2,865)	Radio tracking of Ring Ouzels in Tayside, a rapidly declining red list species. <i>Project completed</i>	Les Hatton les@lydox.fsnetsnet.co.uk
<i>Tay Ringing Group (working with the RSPB)</i>	Tay Reedbed Habitat Management (Perth and Kinross)	£1,875 (total leverage: £4,050)	The ringing of various species of birds that use the River Tay reedbeds. The species targeted for ringing were Reed bunting, Bearded tit, Sedge warbler and Swallow. <i>Project completed</i>	Les Hatton les@lydox.fsnetsnet.co.uk
<i>RSPB Scotland</i>	Tay Reedbeds Biodiversity Enhancement Project (Perth and Kinross)	£26,000 (total leverage: £57,000)	The Tay reedbeds contain 15% of the British reedbed resource. The project helped conserve the reedbeds which support populations of Bearded tits, Water rail, Sedge warbler, Marsh harrier and Reed bunting. <i>Project completed</i>	Gregg Wilkie Gregg.wilkie@rspb.org.uk
<i>Angus Council</i>	Lilybank Biodiverse garden (Angus)	£6,000 (total leverage: £9,086)	Creation of a biodiverse garden, including pond, nestboxes and feeders in the grounds of an Adult Resource Centre. <i>Project completed</i>	Pierre Bernard BernardP@angus.gov.uk
<i>Tay Ringing Group (working with the RSPB)</i>	Marsh Harrier Management (Perth and Kinross)	£3,400 (100% funding)	The purchase of two satellite tags to track Marsh harrier movements down the length of the UK and raise awareness <i>Project completed</i>	Les Hatton les@lydox.fsnetsnet.co.uk
<i>Sustain Dundee (working with Dundee City Council)</i>	Dundee Red Squirrel project (Dundee)	£14,750 (total leverage £38,750)	Three year project to control Grey squirrels, and set up supplementary feeding stations to improve breeding success of Red squirrels <i>Project in progress</i>	Ken Neil Redsquirrel.project@dundee.gov.uk
<i>Angus & Tayside Conservation Group (working with Crown Estates, SNH, Smith Glaxo Kline and Angus Bird Club)</i>	Little tern Breeding Protection (Angus)	£31,968 (total leverage £56,468)	Interim safeguarding/ awareness-raising of tern colony at Montrose ahead of the 3 rd year project to build raft for the Tern spp. <i>Project completed</i>	Mechelle Coutts 01674 676336
<i>Angus Council</i>	Swift/Bat Housing Project	£4,424 (total leverage)	Provision of Swift and bat boxes on William Wallace House, Orchardbank, Forfar (Angus)	John Morrow morrowj@a

	(Angus)	£6,744)	Council Housing Dept.), and then on St Margaret's House, Orchardbank, Forfar. <i>Project completed</i>	angus.gov.uk
Dundee City Council	Dundee Biodiversity Garden (Dundee)	£4,250 (total leverage: £6,500)	Creation of a biodiverse garden providing nesting/ roosting/ hibernating boxes and bird tables and plants to attract invertebrates. <i>Project in progress</i>	John Porter John.porter@dundeecity.gov.uk
Nature Bureau projects (on behalf of Bat Conservation Trust)	Dundee Bat Project (Dundee)	£9,660 (total leverage: £20,570)	Survey and monitoring of bats in conjunction with the local bat group, to survey sites used by pipestrelle bats and how they can be improved. <i>Project completed</i>	Suzanne Marshall post@naturebureau.co.uk
Field Studies Council	Kindrogan Otter Project	£1,700 (total leverage: £1,950)	Riparian management and creation of otter holt <i>Project in progress</i>	Martyn Jamieson 01250 870150
Field Studies Council	Kindrogan Red Squirrel Project	£2,700 (total leverage: £1,950)	Woodland management and provision of Red Squirrel feeding areas <i>Project in progress</i>	Martyn Jamieson 01250 870150
Scottish Agricultural College	Perthshire Barn Owl Project	£6,040 (total leverage: £8,355)	Monitoring and research into 6 areas in Glen Isla to ascertain, and then safeguard, Barn owl population. Phase 2 of the project monitored and researched 6 new areas near the River Isla and near Dunkeld to continue the safeguarding of the area's Barn owl population. Working with local farmers, Barn Owl Management Plans were created for them to continue this work. <i>Project completed</i>	Christine Hall 01738 636611
Dundee City Council	Trottick Pond Restoration	£3,790 (total leverage: £8,200)	Community and Ranger Service restoration of historical rhetting pond for wildlife <i>Project completed</i>	George Potts – countryside.rangers@dundeecity.gov.uk
Dundee City Council	Den o'Mains Pond Restoration	£5,260 (total leverage: £10,825)	Community and Ranger Service restoration of historical rhetting pond for wildlife <i>Project completed</i>	George Potts – countryside.rangers@dundeecity.gov.uk
Angus, Perthshire and Fife & Kinross FWAG	Saving Tayside's Tree Sparrows	£24,440 (total	Monitoring and research into 30 areas across Tayside (i.e. 10 in Angus, 10 in Perthshire, 10 in Kinross-shire) to ascertain, and	Carol Littlewood – carol@littlewoodlandca

		leverage: £29,067)	then safeguard, Tree sparrow populations. <i>Project in progress</i>	re.co.uk
Scottish Agricultural College	Highland Perthshire Calcareous Grassland Project (Perth & Kinross)	£15,778 (total leverage: £22,764)	Feasibility study into suitable areas (Highland Perthshire) for demonstration sites and specific grassland management for invertebrates (inc. Mason bee). <i>Project in progress</i>	Christine Hall 01738 636611
Angus FWAG (working with Angus Council)	The Linnet Link (Angus)	£13,530 (total leverage: £15,280)	Provision of 11,250 new native shrub plantings along A92 cycle track to enhance the linnet population. <i>Project in progress</i>	Carol Littlewood – carol@littlewoodlandcare.co.uk
Perthshire FWAG (working with SEPA, SNH, Blairgowrie Angling Club)	Fingask and White Lochs Recovery Project (Perth & Kinross)	£2,848 (total leverage: £10,300)	The project undertook a catchment approach to tackle water quality issues. It involved local residents, farmers, anglers and golf club members. Separate funding from the SITA TBAF Promotions Fund paid for 250 educational tea-towels (“Make the Link with your Sink”) which were distributed locally to septic tank owners, the anglers club, schools and golf club. <i>Project in progress</i>	Richard Lockett – lockett@agri-environmental.co.uk
Scottish Wildlife Trust	Tummel Shingle Islands Project (Perth & Kinross)	£15,000 (total leverage: £16,110)	A three year project to remove non-native Japanese Knotweed and Himalayan Balsam. This will safeguard one of the rarest habitats in the UK with over 380 plants recorded on the Reserve (Priority species include Common Tern and Ringed Plover). Common Rock Rose also hosts the rare Northern Brown Argus butterfly. <i>Project in progress</i>	Stephen Gardener sgardner@swt.org.uk
Scottish Agricultural College (working with Field Studies Centre)	The Highland Perthshire Water Vole Project (Perth & Kinross)	£3,576 (total leverage - £14,974)	A pilot project centred on the Kindrogan Field Studies Centre and involving staff and volunteers in monitoring four sites to identify areas used by Water voles. Habitat enhancement will include the safeguarding or creation of riparian strips, stock exclusion and control of non-native invasive species. <i>Project in progress</i>	Christine Hall 01738 636611
Scottish Wildlife Trust	Seaton Cliffs: Maritime Cliffs Communities Enhancement (Angus)	£11,880 (total leverage - £19,840)	Restoration over two years (by removal of non-native invasive plants) is encouraging the spread of Kidney vetch, the food plant of the Small blue butterfly, a UK Species of Conservation Concern and Britain’s smallest butterfly. <i>Project in progress</i>	Stephen Gardener sgardner@swt.org.uk

<i>Scottish Wildlife Trust</i>	Osprey Protection Officers, Loch of the Lowes (Perth & Kinross)	£13,998 (100% funding)	A three year project to enable Osprey Protection Officers to offer a 24-hour, 7-days a week surveillance operation during the 8 weeks of sensitive breeding time. Payment of night-time Protection Officers enabled volunteers to commit to day-time shifts only. <i>Project in progress</i>	Stephen Gardener sgardner@swt.org.uk
<i>Murton Trust (and Forfar Academy)</i>	Sand Martin Wall Extension (Angus)	£952 (total leverage - £3,017)	Extension of an existing sand martin wall to safeguard population of sand martins. <i>Project completed</i>	Al Borland – murtontrust@btconnect.com
<i>Murton Trust (and Forfar Academy)</i>	Murton Grey Partridge Breeding Programme (Angus)	£15,760 (total leverage - £27,735)	A new breeding programme for Grey Partridges to provide a suitable wildlife corridor for the birds to access different areas of the nature reserve (and beyond), and to ultimately use as nesting areas. <i>Project in progress</i>	Al Borland – murtontrust@btconnect.com
<i>Murton Trust (and Forfar Academy)</i>	Little Ringed Plover Habitat Enhancement (Angus)	£6,277 (total leverage - £16,623)	Improving habitat for Little Ringed Plovers <i>Project in progress</i>	Al Borland – murtontrust@btconnect.com
<i>RSPB</i>	Floodplain Grazing Marsh Project (Vane Farm) (Perth & Kinross)	£28,000 (total leverage: £42,834)	Biodiversity enhancement project <i>Project in progress</i>	Gregg Wilkie Gregg.wilkie@rspb.org.uk
<i>Perth & Kinross Council (working with Coupar Angus Primary School)</i>	Project Bumblebee (Perth & Kinross)	£8,006 (total leverage: £18,006)	Creation of a species-rich meadow in the centre of Larghan Park for the local community <i>Project completed</i>	Mike Messenger MMessenger@pkc.gov.uk
<i>Scottish Wildlife Trust</i>	Balnaguard Glen Juniper Regeneration Project (Perth & Kinross)	£8,800 (total leverage: £13,466)	Eradication of bracken and other invasive species to enable the safeguarding of existing Juniper. <i>Project in progress</i>	sgardner@swt.org.uk
<i>Scottish Wildlife Trust</i>	Northern Hay Meadow Management (Perth & Kinross)	£5,640 (total leverage: £11,910)	A rare example of an upland hay meadow rich in biodiversity – correct management will safeguard this. <i>Project in progress</i>	sgardner@swt.org.uk
<i>Scottish Wildlife Trust</i>	Calcareous Grassland Improvement (Perth & Kinross)	£9,400 (total leverage: £11,910)	Vigorous control of bracken and blackthorn on the site will safeguard this rare UK habitat. <i>Project in progress</i>	sgardner@swt.org.uk

	Kinross)	£19,670)		
<i>Tay Foundation</i>	Tay District Invasive Plant Control (Perth & Kinross)	£3,000 (total leverage: 34,500)	Control and removal of Japanese knotweed and Giant Hogweed from key sites along the Tay. <i>Project in progress</i>	t.b.c.
<i>Auchterarder Golf Club</i>	Auchterarder Pond Project (Perth & Kinross)	£800 (total leverage: £1,000)	Management of vegetation in pond and creation of new adjoining pond near a right of way for the community. <i>Project completed</i>	Elspeth.cou tts@tiscali.co.uk
<i>Auchterarder Golf Club</i>	Lowland Heathland Mosaic Enhancement (Perth & Kinross)	£2,040 (total leverage: £3,600)	Expansion and enhancement of the mosaic heathland and acid grassland. <i>Project completed</i>	Elspeth.cou tts@tiscali.co.uk
<i>Auchterarder Golf Club</i>	Auchterarder Red Squirrel Project (Perth & Kinross)	£2,440 (total leverage: £3,050)	Provision of feeding stations for Red Squirrels and the removal of inappropriate trees. <i>Project completed</i>	Elspeth.cou tts@tiscali.co.uk
<i>Perth & Kinross Countryside Trust (working with Inchture Primary School)</i>	Inchture Redwood Ponds (Perth & Kinross)	£8,000 (total leverage: £34,000)	A management project to safeguard the unique avenue of giant Redwood trees and enhance the adjoining pond. <i>Project in progress</i>	PMcLennan PMcLennan@pkc.gov.uk
<i>Scottish Native Woods</i>	Highland Perthshire Aspen Restoration Project (Perth & Kinross)	£20,250 (total leverage: £33,500)	A restoration and survey project to widen the original Cairngorms Aspen project. <i>Project in progress</i>	Victor.clements@scottishnativewoods.org.uk
<i>Scottish Wildlife Trust</i>	Montrose Basin Wetland Project (Angus)	£7,102 (total leverage: £17,302)	Grassland management at Montrose Basin Nature Reserve. <i>Project in progress</i>	sgardner@swt.org.uk
<i>Bat Conservation Trust (working with Perth & Kinross Ranger Service)</i>	Perth City Bat Project (Perth & Kinross)	£9,515 (total leverage: £22,094)	Following on from the success of the Dundee City Bat Project, another community-based survey project to check which bats are present throughout the urban area. <i>Project in progress</i>	AYoungman@bats.org.uk
<i>Scottish Wildlife Trust</i>	Saving Scotland's Red	£10,000 (total	A two year project to provide Grey Squirrel Control Officers in Tayside as	Ken Neil Redsquirrel.org

<i>(working with SNH)</i>	Squirrels (Angus/ Perth & Kinross)	leverage: £66,827)	part of the Scotland-wide SWT Red Squirrel project. <i>Project in progress</i>	project@dundeeecity.gov.uk
<i>University of Dundee (working with Dundee Botanic Gardens)</i>	Small Wynd Woodland Wildflower Area (Dundee)	£2,000 (total leverage: £5,298)	Pilot project to introduce a range of wildflower meadows throughout the campus to enhance the University's biodiversity. <i>Project in progress</i>	T.Z.Cunningham@dundee.ac.uk
<i>Dundee City Council (working with Friends of Baxter Park)</i>	Baxter's Bugs, Bats and Birds Project (Dundee)	£2,000 (total leverage: £4,500)	A community-based project to improve a variety of habitats in a public park. <i>Project in progress</i>	Theresa.lynn@dundee.city.gov.uk
<i>Southern Cross Healthcare (working with Perth & Kinross Ranger Service)</i>	Muirtonhouse Biodiversity Project (Perth & Kinross)	£1,100 (total leverage: £1,285)	Part of the Sheltered Housing Biodiversity Project involving residents, staff and families in improving the surroundings for biodiversity. <i>Project in progress</i>	t.b.c.
<i>Dunbarney and Forgandenny Church</i>	Church Wildlife Garden (Perth & Kinross)	£440 (total leverage: 884)	Creation of a wildlife garden at Dunbarney Church. <i>Project in progress</i>	t.b.c.
<i>Auchtergaven and Moneydie Church</i>	Bankfoot Church Centre Bio Garden (Perth & Kinross)	£1,467 (total leverage: £11,209)	Establishment of wildflower meadows, orchard and plantings for bumblebees and butterflies. <i>Project in progress</i>	t.b.c.

Between May 2005 and March 2009:

- 49 projects funded
- £447,724 allocated, including PQLT Administration fee (£869,853 leverage)