LOCAL BIODIVERSITY ACTION PLAN

FOR BRIDGEND COUNTY BOROUGH

Volume 1

A Framework and Strategy for Action

BRIDGEND BIODIVERSITY PARTNERSHIP

Compiled by Planning Department, Bridgend County Borough Council and David Clements Ecology on behalf of the Bridgend Biodiversity Partnership, January 2002
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Acknowledgements

The Bridgend Biodiversity Partnership wishes to acknowledge the work of the Association of Local Government Ecologists in providing support to the biodiversity work of local authorities.
INTRODUCTION

This document, a draft Local Biodiversity Action Plan (‘LBAP’) for Bridgend County Borough, has been prepared on behalf of the Bridgend Biodiversity Partnership. It is an unfinished document, and such incompleteness is not inappropriate at this early stage in the process because LBAPs are intended to be constantly evolving and improving as knowledge about the region increases. This LBAP does not belong to any one group or individual. Without the involvement and commitment of a wide partnership, inclusive of all sectors of society, there is little prospect of effective long-term action in achieving its objectives. This is therefore the first step in building a consensus and support for action in the whole community.

Local Biodiversity Action Plans differ from previous approaches to nature conservation in two important ways:

♦ they are intended to be prepared by, and involve, a broad partnership of individuals and organisations;

♦ they follow a disciplined approach to auditing and target setting: the aim is to ensure that national targets for nature conservation are translated into effective action at the local level, and that important local features are fully included in strategies for action.

The Bridgend Biodiversity Partnership (BBP) was formed to advance the conservation and enhancement of biodiversity in Bridgend County Borough, and the launch of this consultation document is the group’s first main task. The LBAP will provide a strategy for action in two volumes: Volume 1 will set out the strategic framework and main courses of action, and Volume 2 will contain the detailed actions required for priority habitats and species in the county borough.

The first draft of Volume 1 was initially launched in July 2000, and was exhibited for public comment alongside the emerging Unitary Development Plan. It has been commented on by a variety of locally based nature conservation bodies and individuals. The present version comprises both a revised copy of Volume 1, incorporating the comments received, together with the first draft of Volume 2.

Volume 1 contains statements about issues affecting biodiversity, puts forward a framework and strategy for action, and suggests broad actions that should be taken to help conserve it, whilst Volume 2 contains the detail of the Plan, setting out the actions and partnerships required to conserve and enhance the County Borough’s wildlife resource. The development of individual Species and Habitat Action Plans, including clarification of the status and distribution of species and habitats, is an ongoing process. Initiatives such as the disaggregation of habitat data held by the national conservation agencies, and the working-up of relevant targets for habitat management and enhancement, are still unavailable in some cases at the time of writing.
THE BRIDGEND BIODIVERSITY PARTNERSHIP

The Bridgend Biodiversity Partnership (BBP) was initiated in August 1998 and comprises a range of conservation organisations involved with the collection and collation of wildlife data for the Bridgend County Borough area. The Partnership feeds into, and is informed by, a grouping of key partners responsible for delivering the Countryside Strategy and Integrated Action Programme for Bridgend County Borough.

The work of the BBP is supported by the Glamorgan Biodiversity Advisory Group, a forum, established in July 1997, whose remit is to develop biodiversity objectives and action plan targets for the old Glamorgan County area (often referred to as the Watsonian Vice-County 41). This ‘strategic approach’ was seen as both sensible and logistically essential, considering the limited resources of not just the eight local authorities that comprise Glamorgan, but also of the old county’s statutory and non-statutory environment organisations. In any event, such an approach is consistent with Planning Guidance (Wales): Planning Policy, which stresses that ‘landscape and nature conservation issues are not confined by administrative boundaries, and should be addressed strategically and discussed with adjoining planning authorities’.

The goal of the BBP is to maintain the physical and biological integrity of the biodiversity resource of Bridgend County Borough in a condition capable of supporting its characteristic range of habitats and species, to improve or enhance its ability to support these habitats and species through proactive management and to encourage human contact with and enjoyment of biodiversity, so that present and future generations can benefit from its environmental quality and economic benefits.

The BBP comprises:

<table>
<thead>
<tr>
<th>Organisations</th>
<th>Members of Bridgend Biodiversity Partnership Steering Group</th>
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<tr>
<td>Botanical Society of the British Isles</td>
<td>Coed Cymru</td>
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<td>Butterfly Conservation</td>
<td>Environment Agency</td>
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<td>Countryside Council for Wales</td>
<td>Forestry Commission</td>
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<tr>
<td>Botanical Society of the British Isles (East Glamorgan Recorder)</td>
<td>Forest Enterprise</td>
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<td>Glamorgan Bird Club</td>
<td>Groundwork Bridgend</td>
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<td>Glamorgan Moth Recording Group</td>
<td>Prince’s Trust - Cymru</td>
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<tr>
<td>Glamorgan Wildlife Trust</td>
<td>Royal Society for the Protection of Birds</td>
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<tr>
<td>British Trust for Ornithology</td>
<td>Wales Tourist Board</td>
</tr>
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<td></td>
<td>Welsh Development Agency</td>
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</tbody>
</table>

Organisations shown in bold type are members of the Bridgend Biodiversity Partnership Steering Group; the other organisations are a grouping of key partners also involved with delivering the Countryside Strategy and Integrated Action Programme for Bridgend County Borough.

For further information on the Local Biodiversity Action Plan for Bridgend County Borough, please contact: Implementation and Environment Section, Directorate of Environmental and Planning Services, Bridgend County Borough Council, Civic Offices, Angel Street, Bridgend, CF31 4WB. Tel: 01656-643170, Fax: 01656-643190 or e-mail moonsj@bridgend.gov.uk.
Chapter 1

BIODIVERSITY

What is Biodiversity? Why does it matter?

‘Biodiversity’ is a term used to describe the variety and richness of all living things. The term encompasses all life forms, and includes both the genetic variation within species, the interactions between species and the interactions of species with their habitats. It covers everything from algae to elephants, bacteria to blue whales. It is a term that, since the signing of the Biodiversity Convention at the Earth Summit in Rio de Janeiro in 1992, has rapidly moved from the realms of pure science into the public and political arena, and which has stimulated an increased level of interest in nature conservation all over the world.

‘Biodiversity is all living things, from the tiny garden ant to the giant redwood tree. You will find biodiversity everywhere, in window boxes and wild woods, roadsides and rain forests, snow fields and sea shore’

UK Steering Group Report, 1995a

Conserving biodiversity is not just about rare and threatened species and habitats, although Bridgend County Borough has its share of both. All biological life, including we humans, is maintained in a delicately balanced environment, which is easily upset by the loss of species or habitats. The quality of our lives is intimately bound up with the maintenance of biodiversity, since it is ultimately the source of our food, our medicines and many vital materials - even the oxygen in the air that we breathe - as well as a source of well-being and aesthetic enjoyment. It is our responsibility, and in our own self-interest, to look after biodiversity now and for future generations.

There are many compelling reasons for doing this: some are moral, whilst others are aesthetic, economic or simply essential to the maintenance of human life on the planet.

REASONS FOR CONSERVING BIODIVERSITY

Biodiversity supports life itself – Most species have a precise role to play in the Earth’s well being. Many plants and animals are dependent upon each other in a complex web of life, with each species relying on others for survival.

Biodiversity provides essential goods - Plants and animals provide food, medicines, clothing and some of the raw materials for building and industry. It is vital to conserve biodiversity to maintain a wide range of species for future use.

Biodiversity helps to maintain the environment – Natural processes assist with flood control, prevent soil erosion, help to filter wastewater, clean pollutants from the air, and mitigate noise and the visual intrusion of development. Biodiversity also acts as an indicator of the health of the environment and is a key test of sustainability.
Everyone should be concerned at the loss of biodiversity, which has occurred increasingly in recent centuries and especially so over the past fifty years. These have seen an unparalleled rate of loss of wild plants and animals across Britain, with the extinction of more than one hundred species in the 20th Century alone. Humans are ultimately the losers if pollution of the air, land and sea, and the destruction of habitats continues unabated. But humans are also important in being able to take action to reverse the current trends of extinction and environmental degradation. Everyone can assist with the conservation of biodiversity, both as individuals or in organisations, and it is in your interest to do so.

The Global Challenge

The United Kingdom was one of over 150 countries that pledged to develop a national strategy for the conservation and sustainable use of biological diversity at the Earth Summit in Rio de Janeiro in 1992. The signing by these countries of the Convention on Biological Diversity signalled global concern that habitats and natural ecosystems were being lost at an alarming rate. Each country recognised that it had a responsibility to halt the decline of biodiversity within its territorial boundaries.

UK Strategy

The UK Government was one of the first signatories to the Convention to produce a biodiversity strategy and action plan in January 1994 - 'Biodiversity: The UK Action Plan' (HMSO 1994). This report outlined the broad strategy for conserving and enhancing biodiversity in the UK for a 20-year period.

Although the Plan set broad goals and objectives, it was recognised that implementation would require detailed targets. The UK Biodiversity Steering Group (UKSG) was subsequently established with the task of preparing a detailed programme of action. This group had a wide membership including representatives from national agencies such as the Country Nature Conservation Agencies, the Environment Agency, local government, farming and land management, voluntary conservation bodies and industry.

The two volumes of 'Biodiversity: The UK Steering Group Report' were published in December 1995 (UKSG 1995a/b) and were endorsed by the Government in May 1996. This report advocates four key elements to achieve biodiversity objectives:

♦ development of action plans with costed targets for key species and habitats;
♦ improving the handling of information and data;
♦ raising awareness and involvement;
♦ production of Local Biodiversity Action Plans.

The UK Biodiversity Programme is now addressing each of these topics. The preparation of national action plans for habitats and species of particular conservation concern is central to this approach, and 45 national habitat action plans and 391 national species action plans have been produced over the past few years. These plans have clear objectives and have quantified and costed targets, enabling progress to be monitored in the long-term. This represents a new and disciplined approach to nature conservation in the UK.

The UK Biodiversity Programme is being steered by the UK Biodiversity Group (UKBG), which replaced the former UK Steering Group. The various elements of the Programme are being overseen by a range of sub-groups. Also reporting to the UK Biodiversity Group are groups for England, Wales, Scotland and Northern Ireland which help provide information and support biodiversity action within each country area. Six volumes of national Species and Habitats Action Plans have been produced to date by this group (UKBG 1998a/b; 1999a-d).

In Wales the objectives of the UK Biodiversity Programme are met by the Wales Biodiversity Group (WBG). The role of the Wales Biodiversity Group is to promote the implementation of the UK BAP, monitor progress and advise the National Assembly of Wales on the action necessary to maintain and enhance the biodiversity of Wales. Specifically, the WBG will:

♦ Stimulate action and monitor progress on the implementation of Species and Habitat Action Plans;

♦ Promote good practice in the preparation and implementation of Local Biodiversity Action Plans, and monitor progress with local delivery of biodiversity objectives;

♦ Promote public awareness of, and involvement in biodiversity, and monitor progress;

♦ Maintain an overview of the range of biodiversity action by different sectors in Wales and assess its overall contribution to maintaining and enhancing biodiversity;

♦ Consider how funding might be encouraged from key partners for biodiversity activities in Wales;

♦ Report to the National Assembly on progress in implementing the UK BAP in Wales, identifying the key policy issues, and advise on the implications of future strategy for Wales;

♦ Liaise with the UKBG to report on progress and future plans for Wales, and to coordinate approaches to common issues where appropriate.
Much of the detailed work on the ground is carried out by the Wales Local Issues Advisory Group (WLIAG) which reports to the WBG. WLIAG seeks ‘to promote awareness of and involvement in biodiversity, and monitor progress’ through an annual ‘Practitioners’ Seminar’ and an annual questionnaire to local authorities on progress with LBAPs which is reported to WBG and the Practitioners Seminar. WLIAG also agrees and manages the workload of the Wales LBAP Facilitator based at CCW. CCW chairs the Wales Biodiversity Targets and Actions sub-group, and the National Museum & Gallery of Wales chairs the Information sub-group. WLIAG looks to these groups for help in the disaggregation of national targets to LBAPs to local authority areas, and the formulation of a data collection system for reporting local action.

Local Biodiversity Action Plans

The Government has taken a lead in setting the approach for biodiversity conservation, but in order to succeed action needs to be taken at all levels and in all sectors of the community. National objectives for biodiversity can be achieved only through concerted action at the local level, and the preparation of Local Biodiversity Action Plans is something which is clearly advocated by ‘Biodiversity: The UK Steering Group Report’. LBAPs are a fundamental contribution to Local Agenda 21 programmes, another product of the Rio Earth Summit. A healthy natural environment is important to everyone and is essential for our well being and our quality of life. A healthy environment is the main goal of sustainable development, and the conservation of biodiversity plays a major part in this process.

Local Biodiversity Action Plans have two broad functions:

♦ to ensure that national action plans are translated into effective action at the local level;
♦ to establish targets and action for species and habitats characteristic of each local area.

Local Biodiversity Action Plans differ from previous approaches to nature conservation in two important ways; they are prepared by a wide partnership of interested individuals and organisations, and they follow a very disciplined approach to auditing and target setting. The Plans form the framework from which individual members of biodiversity partnerships can develop strategies for delivering relevant parts of the Plan.

FUNCTIONS OF LOCAL BIODIVERSITY ACTION PLANS

To ensure that national targets for species and habitats, as specified in the UK Action Plan are translated into effective action at the local level. National priority species and habitats occurring in the local area must be identified; targets should be linked to national priorities.
To identify targets for species and habitats appropriate to the local area, and reflect the values of people locally. Local Biodiversity Action Plans can highlight important local features and provide an opportunity for people to express their views about what is important in their area.

To develop effective local partnerships to ensure that programmes for biodiversity conservation are maintained in the long term. The Local Biodiversity Action Plan must be built by consensus. The Plan should be owned by all parties that have a key role in delivering action.

To raise awareness of the need for biodiversity conservation in the local context. Increasing public awareness and involvement in biodiversity conservation is crucial for success.

To ensure that opportunities for conservation and enhancement of the whole biodiversity resource are fully considered. Plans need to consider appropriate action for different localities within the plan area. Opportunities for habitat enhancement and restoration should be pursued in addition to conservation of the existing resource.

To identify the resources available for implementing the objectives of the Plan.

To provide a basis for monitoring progress in biodiversity conservation, at both local and national level. A periodic review of whether targets have been achieved will assess the effectiveness of the plan and contribute to national monitoring.


It may perhaps seem surprising that Biodiversity Action Plans do not make specific reference to geology, geomorphology and soil science, since these are ultimately the foundation of all habitats and the biological ecosystems that depend on them. The earth sciences form part of the natural world, and are an essential factor both in human development and in the maintenance of the natural environment. Biodiversity Action Plans, however, are normally taken to encompass the living elements of the environment, rather than the environment as a whole, making reference to the earth sciences only where they have a direct impact on the survival or maintenance of biological habitats or species, for example through the impacts of quarrying.

The conservation and management of geological resources are currently being addressed through separate means, such as the UK Geological Conservation Review, Minerals Local Plans, and the Regionally Important Geological /Geomorphological Sites (‘RIGS’) programme. The latter is in the process of being established in south Wales, where it is being coordinated by the South Wales Geologists Association, amongst others. It is anticipated that geological and earth sciences issues will increasingly be addressed as a significant conservation issue in its own right under the aegis of Local Agenda 21 and Sustainability programmes, and that there will be considerable scope for liaison and integration of these interests with the Biodiversity Action Plan in the future.
### Landmarks in the Biodiversity Action Plan Process

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<thead>
<tr>
<th>Year</th>
<th>Event</th>
<th>Description</th>
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<tbody>
<tr>
<td>1992</td>
<td>Earth Summit, Rio de Janeiro</td>
<td>UK Government signed the Biodiversity Convention at the UN Conference on the Environment &amp; Development</td>
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<tr>
<td>1994</td>
<td>Biodiversity: The UK Action Plan</td>
<td>The UK Government’s response to the challenge of the Biodiversity Convention, which set out the principles for biodiversity conservation in the UK and led to the setting up of the UK Biodiversity Steering Group.</td>
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<tr>
<td>1995</td>
<td>The UK Biodiversity Steering Group Report</td>
<td>The first biodiversity audit for the UK, which established national and international priority habitats and species for conservation, and the development of quantifiable conservation targets for 391 species and 45 habitats.</td>
</tr>
<tr>
<td>1997</td>
<td>Action for Wildlife</td>
<td>A report published by the Countryside Council for Wales which set out preliminary Wales-wide action plans for 12 habitats and 53 species considered to be special priorities in Wales.</td>
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<tr>
<td>1999</td>
<td>Secretary of State for Wales called for Local Biodiversity Action Plans</td>
<td>called for Local Biodiversity Action Plans to be prepared throughout Wales by the year 2000.</td>
</tr>
<tr>
<td>1998/1999</td>
<td>UK Biodiversity Group succeeds the UK Biodiversity Steering Group: six volumes of detailed action plans published covering 40 Priority Habitats and 400 Priority Species in the UK.</td>
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<tr>
<td>2000</td>
<td>Countryside &amp; Rights of Way Act</td>
<td>Puts the Biodiversity Action Plan process on a statutory basis and requires all Government departments and the National Assembly of Wales to have regard to, and promote, the objectives of biodiversity conservation wherever possible.</td>
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Chapter 2

A LOCAL BIODIVERSITY ACTION PLAN FOR BRIDGEND COUNTY BOROUGH

The Bridgend Biodiversity Partnership (BBP) has been established to advance biodiversity conservation and enhancement in Bridgend County Borough. The preparation of this Local Biodiversity Action Plan has been one of the partnership's first achievements. The Plan will guide action on nature conservation in the County Borough for the coming years, and will provide a focus for everyone involved. But this is only the beginning of an on-going and evolving process of biodiversity action planning.

BBP works closely with the Glamorgan Biodiversity Advisory Group (GlamBAG), which embraces a wide range of organisations – local authorities, statutory conservation agencies, voluntary bodies, representatives of landowners and others – all working together with the common goal of conserving the biodiversity of the eight local authorities of the former 'Glamorgan' county area.

BBP is currently mainly supported by the local wildlife recording organisations, but it will undoubtedly expand as the process of conserving biodiversity progresses. Additional partners from many sectors of society are invaluable in being able to bring with them their own particular skills in formulating and implementing the Plan.

The Biodiversity Action Plan

The Plan consists of two parts. Volume 1 sets out the overall strategy for biodiversity action and the key objectives, and also:

- explains the audit of habitats and species undertaken in Bridgend County Borough
- outlines how the Partnership has selected habitats and species of priority concern
- identifies data needs
- summarises the main issues influencing biodiversity
- examines the raising of awareness and involvement in biodiversity conservation

Volume 2 contains detailed action plans for a range of key habitats and species in Bridgend County Borough. Together, the overall strategy for action in Volume 1 plus the detailed action plans for habitats and species in Volume 2 provide a basis for biodiversity conservation in Bridgend County Borough, and this will be reviewed, supplemented and updated at regular intervals in the future.
The Process

The Biodiversity Action Plan should be seen as a platform for actions to be taken forward by the Partnership, enabling each organisation to develop its own ideas and approaches to biodiversity conservation. The Partners may come together collectively to implement joint projects and address strategic issues, and of course, there will also be opportunities to implement action for biodiversity by building on existing initiatives.

The Plan will promote a variety of actions. The strategic action points set out in this document - for example, how to deal with data needs, or the raising of awareness and involvement in biodiversity conservation - will require further detailed programmes of action to be developed. The habitat and species plans will also recommend action such as site protection, habitat management and restoration, and the need for up-to-date survey data, and they will also raise issues of policy. There will be, within every subject, a variety of mechanisms at different levels for delivering objectives. One way to assist the implementation of the Plan will be to identify lead agencies or individuals to co-ordinate the necessary action.

Roles and Contributions

Implementation of actions depends on a range of functions, for example in land-use planning, provision of grant-aid and land management. Each Partner will have a particular role to play, for example:

♦ planning is the remit of local authorities;
♦ giving grants and incentives is one of the functions of the National Assembly for Wales and Government Agencies;
♦ land management is a primary responsibility of farmers and the farming bodies;
♦ community action can be fostered by bodies such as the Glamorgan Wildlife Trust and Town and Community Councils.

If the Plan is to be successful it must stimulate a growing web of action. Success will largely rest on the commitment and enthusiasm of individual partners, and the vital role of the Partnership is to stimulate and co-ordinate action. Effective networking and information exchange by the Partnership will help to minimise duplication and instead build co-operation, making the best use of the expertise and resources available. The Partnership must also undertake the fundamental role of monitoring progress and reviewing priorities.

What’s New?

A fair question! Much is already being done for biodiversity conservation in Bridgend County Borough. There is a wide range of existing projects and initiatives and a variety of mechanisms already in place. Nevertheless, this is not simply a relabelling exercise. The Local Biodiversity Action Plan process brings a new discipline to all of this work. It produces the opportunity to review current activities, identify priorities and set specific targets. It also provides a clear framework for reviewing and monitoring progress. Each organisation can examine its own
programme of work against the agreed priorities of the Bridgend Biodiversity Partnership and the national targets laid down in the Biodiversity Action Plan.

Although organisations with an interest in biodiversity conservation have worked together before, the groupings forming the Bridgend and Glamorgan Partnerships are proof of a new approach and understanding. Partners from a diverse spectrum of organisations and agencies have agreed to joint responsibility. This co-ordinated approach to biodiversity, both in the region and in the county borough, should translate into an unprecedented degree and range of action for biodiversity.

**Links with Other Plans**

The UK Biodiversity Action Plan (UK BAP) sets the national priorities for all other biodiversity plans in Britain. In South Wales, regional guidance is being formulated to fit into the hierarchy between national and local programmes. The Glamorgan Biodiversity Advisory Group has assisted local authorities at both the audit and action planning stages of the Biodiversity process. GlamBAG's work, essentially looking at habitats and species of conservation concern within the region, will assist local unitary authorities in matching their priorities with each other, and with those in the national guidance.

A range of other plans and processes will help to deliver biodiversity objectives. Objectives and targets should be included in Local Agenda 21 programmes, the Unitary Development Plan (UDP), transport plans and many others. There are many plans and strategies in existence or in preparation which address biodiversity issues; for example Local Environment Agency Plans and management plans for specific areas such as the Kenfig National Nature Reserve, the Porthcawl Lakes, and the Craig-yr-Parcau and Frog Pond Wood Local Nature Reserves. Each of these has a distinct role and contributes to biodiversity conservation within Bridgend County Borough. The biodiversity programme relies on a network of such plans. In turn, the Biodiversity Action Plan will help to identify the need for further plans, help guide them, and support the review of existing plans.

The Habitat and Species Action Plans must identify relevant current action and existing plans, and put these in the context of the overall action required. Individual organisations and agencies such as the Environment Agency Wales and Forestry Commission need to be encouraged and supported in the preparation of biodiversity action plans to cover their own areas of activity. In many cases, individuals responsible for the management of land may find it useful to prepare a plan which relates specifically to their own landholding, and which forms part of their overall business plan.
PREPARATION AND IMPLEMENTATION OF THE PLAN

National Biodiversity Programme
UK Biodiversity Group
UK Local Issues Advisory Group

Wales Biodiversity Group
Wales Local Issues Advisory Group

Glamorgan Biodiversity Advisory Group

Bridgend Biodiversity Partnership

Bridgend County Borough Biodiversity Action Plan

Action
by Individual Partners or the Partnership

Contribution to National Targets

Conservation & Enhancement of Bridgend County Borough’s Biodiversity

Monitoring & Review
STRATEGY FOR ACTION ON BIODIVERSITY

The Bridgend Biodiversity Partnership has identified the following broad objectives:-

- to audit the nature conservation resource of Bridgend County Borough (chapter 3)
- to identify from the audit habitats and species of priority nature conservation concern, including those which are locally distinctive (chapter 3)
- to prepare action plans for habitats and species of priority conservation concern and follow through with programmes of implementation and monitoring (chapter 4)
- to ensure that data on habitats and species in Bridgend County Borough is sufficient to enable effective implementation and monitoring of biodiversity objectives (chapter 5)
- to review general issues affecting biodiversity, such as agriculture and development, and chart a course of appropriate action (chapter 6)
- to raise awareness and involvement in biodiversity conservation across all sectors (chapter 7)
- to encourage individuals and organisations to review their role in biodiversity conservation and the resources required, and develop their own action in response to the Biodiversity Action Plan for Bridgend County Borough (chapter 8)
- to maintain an ongoing partnership which will co-ordinate, develop and support action for biodiversity (chapter 8)
- to monitor and review progress towards meeting the above objectives and the targets set out in the habitat and species action plans (chapter 8)
- to periodically update the Biodiversity Action Plan for Bridgend County Borough and its component habitat and species action plans to take account of changing circumstances (chapter 8)
Chapter 3

THE BIODIVERSITY OF BRIDGEND COUNTY BOROUGH

Bridgend County Borough is exceptionally rich in wildlife and diverse landscapes. But many habitats have been lost or damaged, and there is a pressing need to conserve and enhance those that remain. The audit has enabled the identification of habitats and species of priority concern.

HABITATS

The Glamorgan Biodiversity Advisory Group has produced a number of draft Regional Habitat Action Plans (RHAPs) covering the Glamorgan area, and which are directly relevant to Bridgend County Borough (GlamBAG 1999). The first tranche of RHAPs covers UK BAP priority habitats, namely:

- Coastal and Floodplain Grazing Meadow
- Lowland Heathland
- Ancient & Species-Rich Hedgerows
- Fens
- Reedbeds
- Lowland Purple Moor-grass and Rhos Pasture
- Upland Oak Woodlands

These seven plans, in final draft form, were launched at a special seminar aimed at land managers, land developers and landowners, which was hosted by the Welsh Development Agency in the spring of 1999. A second tranche of regional habitat action plans is currently in production, and these are at various stages of consultation with the Countryside Council for Wales, prior to their public consultation phase. These plans include:

- Lowland Hay Meadow
- Lowland Dry Acidic Grassland
- Lowland Calcareous Grassland
- Eutrophic Standing Waters and Ponds
- Sand Dunes
- Shingle
- Coastal Cliff & Slope
- Cereal Field Margins
- Wood Pasture & Parkland
- Wet Woodland
- Upland Mixed Ash Woodland
- Beech & Yew Woodland
- Saltmarsh

The main source of habitat information for these and other plans is the Countryside Council for Wales (CCW) ‘Phase 1 Habitats Survey’ carried out in the mid-1980s and early 1990s, together with the Upland Habitats Survey carried out by the former
Nature Conservancy Council (NCC) in the early 1980s. All of the present local authorities (now called ‘Unitary Authorities’) have access to these data, but disaggregation of the Phase 1 area data held by CCW into individual Unitary Authority Areas has only been partially achieved at the time of writing, which makes the setting of quantified targets for habitats difficult. Nevertheless, approximate areas and targets have been derived from the data in their present form, and future improvement of the dataset will further assist both RHAP and LBAP development in due course.

**Habitats: Diversity and Importance**

Bridgend County Borough’s mosaic of habitats includes ancient woodlands, unimproved wet grasslands, chalk grassland, river valleys and rocky gorges, coastal sand dunes and saltmarsh. These habitats support an exceptionally varied flora and fauna, including many rare and declining species.

Sites of nature conservation importance in Britain which have statutory designations because of their international or national interest represent the ‘top tier’ of protection in Britain. Such sites are therefore probably the best understood and most widely accepted. The primary designations in this tier are Special Protection Areas (SPAs), proposed Special Areas of Conservation (pSACs), Sites of Special Scientific Interest (SSSIs), National Nature Reserves (NNRs) and Local Nature Reserves (LNRs). Background information about the various legislative and statutory arrangements under which these designations arise is provided in Appendix 1 of Volume 2.

Just two sites of nature conservation importance within the County Borough receive statutory protection for their international wildlife conservation interest; these are Kenfig NNR and Merthyr Mawr pNNR, both of which are SSSIs, and which together form the candidate Kenfig pSAC designated under the EC Habitats & Species Directive.

A very small additional number of sites in the county borough also receive statutory protection for their national interest. There are twelve *Sites of Special Scientific Interest* (SSSIs) and two *Local Nature Reserves* (LNRs), designated in respect of their habitats. These include ancient oak woodland, mixed ancient woodland with rich ground flora, wet meadows on peaty soil, valley and upland blanket mire, deep rocky chasms with mosses and ferns, large sand dune systems and geological features. Statutory designated sites cover only 1,215 hectares or 4.8% of the county borough’s land-area, which includes the 974 hectares of the Kenfig pSAC. Excluding these sand dune sites, the figure reduces markedly to just under 1% of the county borough’s land-area. This compares rather unfavourably with the 18 ‘Landscape Conservation Areas’ identified in the Local Plan for reasons of scenic and amenity value, rather than for nature conservation, which together cover some 3,062 hectares or 12% of the County Borough.

But statutory designations form only a part of the biodiversity picture. As has been indicated above, statutorily designated sites protect only some of the best examples of Bridgend County Borough’s habitats. In addition to these a large number of non-statutory ‘Sites of Importance for Nature Conservation’ (SINCs) have also been identified in the county borough. The main purpose of these is to help to conserve
additional areas of important wildlife habitat which may not qualify as nationally or internationally significant, but which are important in the regional or local context. SINC's are normally protected against destruction or adverse development through their recognition in the planning and development process, and may be targeted for grant-aid to maintain and enhance their nature conservation interest.

In March 2000, the UK Local Sites Review Group prepared a report for the DETR and gave the following agreed description of the purpose of a Local Site (SINC):

"The series of non-statutory Local Sites seek to ensure, in the public interest, the conservation, maintenance and enhancement of species, habitats, geological and geomorphological features of substantive nature conservation value. Local Site systems should select all areas of substantive value including the most important and the most distinctive species, habitats, geological and geomorphological features within a national, regional and local context. Sites within the series may also have an important role in contributing to the public enjoyment of nature conservation"

DETR-LSRG, 2000

Over 160 non-statutory Sites of Nature Conservation Importance have been identified in the county borough, first in the Ogwr Wildlife Strategy and subsequently highlighted in the Landscapes Working for Bridgend County Borough (Opus 1997) strategy. These areas have recently been validated, and are now added as a layer to the County Borough's Geographic Information System database which is used in planning and development control. An up-to-date (2001) list of SINC's within Bridgend County Borough is attached at Appendix 1 of this Volume, together with guidance on their selection.

In addition, sites may be adopted or designated as nature reserves by voluntary and private sector bodies such as the county wildlife trusts, Butterfly Conservation and the Woodland Trust. For example, the Glamorgan Wildlife Trust manages Park Pond and the Parc Slip Restoration Site near Tondu as one of their nature reserves, while the Woodland Trust owns Trafalgar Wood, Porthcawl.

Even outside of the specially recognised sites, the rest of the county borough is rich in wildlife habitats. For example, patches of scrub, field margins, hedgerows, ponds, mature trees, vegetated tips, road verges and urban green spaces can all contribute to Bridgend County Borough's biodiversity. They are often of particular value to local people in their everyday lives, as well as supporting much of the 'background' biodiversity of ubiquitous species which are not by any means confined to the special, designated sites.

Annex 1 sets out a preliminary assessment of the key habitats in Bridgend County Borough, as determined by the Bridgend Biodiversity Partnership, a list of Sites of Importance for Nature Conservation within Bridgend, and Guidance on their Selection.
Habitats : Losses and Threats

Despite the richness of the wildlife resource in many areas within the County Borough, there has been a considerable loss of biodiversity over the past 100 years, with the fragmentation of many habitats paralleling their decline in quality and extent. The main attrition of habitats has been due to built development, such as roads, houses and industry, but much has also been lost to changes in agricultural practice and commercial afforestation.

Built development results both in direct loss of habitat and in degradation due to the secondary impacts of development, such as increased water abstraction, loss of buffer zones and pressure of increased human presence and disturbance. Where agricultural practice has changed, it is factors such as the disruption of drainage patterns, spraying with herbicides and pesticides, nutrient enrichment and removal of traditional farm features (such as hedges, ponds, and small copses) that have caused impoverishment of wildlife habitats. Changes like these have come about largely through support by successive governments anxious to see Britain become more self-sufficient in food-production, as also as an unwanted consequence of Europe-wide convergence in farming policy in the 1980s and early 1990s.

The main damage caused by afforestation has been to areas of heathland and ancient woodland, which were deemed ‘unproductive’ and therefore suitable for intensive forestry management in the 1970s and 80s. The pre-existing habitats, which support many rare and characteristic species, were often severely damaged or destroyed entirely by the use of modern drainage and enrichment techniques, before being planted with non-native conifers or broadleaved timber crops.

Agriculture and forestry practices are nowadays more sensitive to the needs of nature conservation, and there have been significant shifts in national and European policy which have seen some slowing in the dramatic rate of habitat and species losses of the past. However, there is still pressure from built development, and many valuable wildlife sites now suffer from a lack of management caused by the decline of traditional, smaller-scale mixed farming.
SPECIES

Species : Diversity and Importance

Bridgend County Borough is rich in a wide range of species due to the area's geographical variation, and the wide range of habitats it contains; in particular, its internationally important sand dune systems. The variety of coastal habitats, which include small areas of saltmarsh, sandy beaches and rocky shoreline, supports a number of species that cannot be found in inland areas. An example is the Strandline Beetle (Eurynebria complanata), which at Kenfig is present in one of its most northerly stations in Britain.

Many large areas on the coast have remained comparatively unchanged for long periods. Stable environments allow many species that have very specific habitat requirements to persist. The Merthyr Mawr and Kenfig sand dune systems are a special case. These constitute some of the best dune areas in Wales, and are rich in fungi, bryophytes, vascular plants, invertebrates and vertebrates. Some species are found in very few other places in Britain, such as the Fen Orchid (Liparis loeselii) and the Shrill Carder Bee (Bombus sylvarum). Even though these species have survived here, management is still required to ensure their long-term survival. The Fen Orchid, for example, appears to enter a new, damp, bare sand slack area after about thirty years, and then finds it difficult to compete with the colonising vegetation after about sixty years! The Shrill Carder Bee needs flower-rich meadows, with good forage plants such as Yellow Rattle and Red Clover, and is badly affected when stock grazing levels are too low, resulting in scrub development, or if they are too high, when flowering heads get nibbled off.

Species : Losses and Threats

Species can be threatened by a range of factors, which can affect both the individual organisms and their habitats. These factors can be broadly grouped together as changes in habitat, pollution, species effects, direct human impacts and genetic effects.

The Marsh Fritillary butterfly (Eurodryas aurinia) is a good example of a species that has been driven close to extinction in many parts of Britain because of the way that traditionally managed damp pastures and meadows have been reduced in extent by development, agricultural improvement and abandonment. Species can be affected by a reduction in the overall extent of habitat, fragmentation of the habitat, or changes in habitat quality. In the case of the Marsh Fritillary, the damp grasslands that it needs now often occur in patches too small, or too fragmented, to support a viable population.

Pollution affects many species directly. Freshwater molluscs can be used as bio-indicators in aquatic environments, and lichens are well known for their role as sensitive indicators of air pollution. Many such species are intolerant of high levels of sulphur or nitrates, both key pollutants arising from industrial or farming operations.
Some species can be adversely affected by other species - through competition, disease or predation. For example, invasive species of plant such as Sea-Buckthorn on dunes, or Japanese Knotweed and Himalayan Balsam in river systems, can out-compete native flora and replace it with a monoculture.

Several species of orchid and fern have had their populations reduced, sometimes almost to extinction, by enthusiastic human collectors. Human disturbance can have similar consequences, and is a factor in the reduction in numbers of some birds, notably breeding waders, which depend on open habitats such as wet grasslands in river valleys, or coastal shingle.

Though the genetics of wild populations are generally poorly understood, issues include the introduction of alien varieties, for example cultivated daffodils, and the release of genetically modified organisms. Many individual populations of species have developed very specific genetic adaptations to the precise environmental conditions of their locality. The introduction of ‘alien’ genetic material through crossbreeding with introduced strains of the same species may severely affect the ability of a localised population to survive.

**An Audit of Bridgend County Borough’s Species**

In its early days, the Glamorgan Biodiversity Advisory Group attempted to establish the presence and/or absence of UK BAP Priority Species in each local authority area. Information was scattered between a variety of sources and proved difficult to assemble. Real progress was only made when resources were found for a Welsh Wildlife and Countryside Link initiative, managed by the Royal Society for the Protection of Birds, and grant aided by CCW. This compiled local species information on a CD-ROM which then underwent testing by biodiversity practitioners throughout Wales, and was eventually launched at the Wales Biodiversity Group meeting in Cardiff on 30th July 2000 (CCW et al 2000).

The UK Biodiversity Programme identified 1,288 species of national conservation concern. Of these, some 489 species are of priority concern (rapidly declining or globally threatened). The Countryside Council for Wales has so far identified 181 UK Priority Species with published action plans, which are present in Wales.

An audit of Key Species has been carried out for Bridgend County Borough. This has taken account of the national Priority Species and other species of national conservation concern which are known to occur within the county borough, together with small number of additional species which are of local concern and distinctiveness. These are listed in Annex 2. Further identification of the Key Species in the county borough is subject to the continuing work of the Bridgend Biodiversity Partnership and the input of specialist recording bodies and individuals working in the region.

The input of information from the local community is especially important in identifying species of local distinctiveness and rarity, and additional or new information will be included in the LBAP during its periodic revision in the future.
Key Species in Bridgend County Borough should include all of the UK BAP species which occur, together with any additional species that meet local inclusion criteria. Key Species will normally comprise those which:

♦ have significant populations in a regional or national context
♦ are declining locally
♦ are locally rare
♦ have local threats to their survival.

National action plans have been prepared for the majority of these species. These plans set targets and a broad framework for action, but to be effective they must be translated into the local context.

Conservation action for most Key Species can be dealt with through Habitat Action Plans. Positive management actions which benefit a particular habitat will also benefit the majority of species which depend on that habitat. However, a few species have very special requirements that cannot be met through habitat action alone. Species Action Plans will therefore be required, for example, where:

♦ a species is so highly threatened, or rapidly declining, that urgent action must be taken to avoid local extinction - the rarer fritillary butterflies are a case in point;
♦ where a species is widespread, occurring on a range of habitats, but general habitat work will not cater for it;
♦ there are species which, although restricted to a particular habitat, have such peculiar ecological requirements that normal habitat management will not cater for it: for example, the Fen Orchid at Kenfig NNR.

**Wildlife Recording**

Finding out about the wildlife of an area relies on individual people keeping records of what they see and then passing this information on to national and local recording schemes. There is at present no coordinated recording of wildlife information in south Wales, although a number of bodies and individuals compile information themselves, including CCW, the Glamorgan Wildlife Trust and the National Museum & Gallery of Wales. There are several initiatives underway both at the national and the regional level to consolidate and organise the gathering of biological records in south Wales, but these are unlikely to result in any concrete developments in the near future.

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<thead>
<tr>
<th>NATIONAL &amp; LOCAL WILDLIFE RECORDING ORGANISATIONS</th>
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<td>British Bryological Society</td>
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<td>British Dragonfly Society</td>
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<td>British Lichen Society</td>
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</table>
Monitoring

The current Key Species in Bridgend County Borough will be placed in a database, which will be updated as additional information on the status of species becomes available. The database will also keep track of relevant conservation projects and current action for each species.

Biodiversity Policy Base

Throughout most of Britain, local planning authorities have policies aimed at protecting their own locally important sites as well as the nationally important statutory sites and protected species. Thus in the Mid Glamorgan Replacement Structure Plan 1999, as it affects Bridgend County Borough, the relevant policies EV5 and EV6 refer to the protection of non-statutory designated sites (ie SINCs) against inappropriate development. The adopted Ogwr Borough Local Plan also contains policies related to the protection of trees, hedgerows and woodlands, the protection of sites of national, regional and local importance, and mitigation for their loss or damage by development.

Bridgend County Borough Council is in the process of producing a new ‘Unitary Development Plan’ for the county borough, which replace the former Mid Glamorgan Structure Plan and other outdated Local Plans. The ‘deposit version’ of the Unitary Development Plan for Bridgend County Borough, which was issued for public consultation on 24th May 2001, contains a suite of policies regarding biodiversity conservation and enhancement.

At the regional and national level, local planning policy is influenced by a number of published documents, including:

♦ **Planning Guidance (Wales): Planning Policy (1st Revision) 1999** (currently being revised)

♦ **Planning Guidance (Wales): Technical Advice Note (Wales) 5: Nature Conservation & Planning 1996**

♦ **Strategic Planning Guidance for South East Wales 2000**
Chapter 4

HABITAT AND SPECIES ACTION PLANS

The audit of biodiversity in Bridgend County Borough is on-going, through the collation of existing data and new survey work coordinated by, or carried out by, the Bridgend Biodiversity Partnership. This has enabled the selection of habitats and species of priority concern in the county borough.

One of the Partnership’s objectives is to prepare a detailed action plan for those priority habitats identified by the Wales Biodiversity Group which are found in Bridgend County Borough. Relevant Habitat Action Plans (HAPs) should cover the actions that are needed to help conserve the many of the county borough’s Key Species. However, some species will not be adequately covered by the Habitat Action Plans, and where this is the case, individual Species Action Plans (SAPs) will also be drawn up.

Volume 2 of the Bridgend Biodiversity Action Plan contains some 16 HAPs and 30 SAPs prepared to date. This volume will be expanded to include any additional Habitat and Species Action Plans as they become available in the future.

Purpose and Scope of the Plans

The overall aim of each action plan is to enable successful conservation or restoration of priority habitats and species. Each plan should provide an up-to-date and comprehensive review of the current status of these habitats and species, enabling effective and well-directed action.

Each plan will therefore have several goals:

♦ to provide information
♦ to establish targets for action
♦ to direct conservation action
♦ to raise awareness
♦ to provide a monitoring framework

Action plans will set the conservation direction and outline priorities. They will also present challenges to the many organisations and sectors that are involved. Each plan will help individual organisations to identify their role; for example, whether site management, provision of grant-aid, site protection, or perhaps influencing national policy. Plans must clearly present the extent and type of action that is required and the funds needed for implementation.

The focus of each plan will be the action required at a variety of levels, from the local neighbourhood to national policies and programmes. Action in Bridgend county borough should contribute effectively to national objectives and targets.
This Plan is not intended to be written and then shelved. In the same way, each Habitat or Species Action Plan should be seen as a working document, providing a reference point to monitor progress at regular intervals. Every action plan will be updated over time; additional habitats and species may have plans prepared for them if the UK Action Plan recommends them, or if local circumstances dictate.

Content

Each habitat or species action plan will have three main elements:

♦ Assessment – a summary of status, threats and action to date
♦ Objectives and Targets – detailed objectives with measurable targets
♦ Action Points – actions required to meet objectives and targets.

Action plans will integrate all relevant previous work in the county borough, and provide a comprehensive assessment of conservation needs. They will set out detailed objectives and specific, measurable targets such as area of habitat to be re-created or restored. Targets will, pragmatically, need to be based on funding that might be reasonably available, and indeed action plans may stimulate new resources. The trick is to focus action to reach targets over realistic, yet ambitious, time-scales. Lack of comprehensive data should not be a barrier to setting targets, and indeed a target may be the improvement of data quality. Targets will be audited and reviewed as further information and resources become available in the future.

Each plan will ideally follow a standard format, ensuring a consistent approach and level of detail, and should strive to be compatible with plans written for the same habitats and species - whether regionally or nationally. Liaison is undertaken with neighbouring local authorities through the Glamorgan Biodiversity Advisory Group, the body preparing regional guidance relevant to Bridgend County Borough.

Action plans will need to integrate relevant proposals and approaches accepted in other plans and strategies. Examples of these are Local Environment Agency Plans, Local Authority Countryside Strategies, and LANDMAP strategies. In turn these other plans will help to refine, develop and implement initiatives.

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<td>Description of habitat – including its variation and associated species</td>
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<td><strong>Lists of projects, schemes, publications and contacts</strong></td>
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CONTENT OF SPECIES ACTION PLANS

Background
Reasons for including the species in the Biodiversity Action Plan for Bridgend County Borough – species of international conservation concern; priority species within the National Biodiversity Action Plan; species of particular Bridgend County Borough concern

Ecology and habitat requirements

Current Status
Population and distribution – international, national and Bridgend County Borough

Legislation and site designation

Summary of important sites

Current Factors Causing Loss or Decline
Summary of the current factors causing decline in populations and distribution

Current Action
Protection – legislation and site designation

Site management and programmes of action – habitat management, special projects e.g. recovery programmes; incentive schemes

Surveys, research and monitoring – audits; research into impacts; research into habitat requirements and habitat restoration techniques etc.

Objectives and targets for maintaining and increasing species populations and distribution, taking into account national objectives and targets

Future Action
Proposed Action with Lead Agencies

How the objectives and targets will be delivered, and by whom

Species protection and management – site designation; policy changes; habitat management; restoration and re-creation; special projects

Incentive schemes and other resources – targeting and strengthening of incentive schemes; identifying other resources

Advice – liaison with landowners and land managers; provision of support and information to relevant organisations

Survey, research and monitoring – to support local and national action plan objectives
Communication and publicity – raising awareness and providing information to all relevant sectors

Information Sources
Lists of projects, schemes, publications and contacts

Preparation of Action Plans

Each Habitat or Species Action Plan will be prepared by a working group or lead partner. The opportunity is open to all partners to be involved in the preparation of any plan, and the plans will undergo wide consultation. This will result in them being comprehensive, accurate, forward thinking and widely supported. The involvement of those people who have specialist knowledge, or who have a particular sphere of activity, or the ability to influence implementation, is particularly important.

Implementation

Implementation of each action plan will be achieved through the Bridgend Biodiversity Partnership acting collectively, through individual partners taking action, or through the actions of others not yet involved. There will be a variety of issues and types of action required, and these will be different for different plans. Success will be best achieved through each partner identifying how they can contribute. For example, the National Assembly for Wales might wish to review the targeting of the Tir Gofal scheme, the local authority might wish to identify land-use and management issues within a specific geographical area; or landowners may consider reviewing the management objectives for their landholdings. Encouragement or support will be needed to help some partners take action or to focus efforts, and it is important that a lead agency is encouraged to oversee implementation of each plan.

Some issues and action may be common across a number of plans. For example, several different habitats would benefit from initiatives which encourage grazing. There may be cases where action for one habitat or species works to the detriment of another habitat or species. Such cases will need careful review.

Monitoring progress will be essential, and plans will need to be continually monitored, as circumstances and issues change over time.
Chapter 5

INFORMATION AND DATA

The UK Biodiversity Steering Group Report stresses the fundamental importance of good data and a coordinated approach to both national data provision and local data management. The collection of data on the biodiversity of Bridgend County Borough, its habitats and species, is essential to the development and implementation of a Local Biodiversity Action Plan. No single organisation has a statutory duty to collect biological information, yet the need to record and monitor this is self-evident. Preparation of this Local Biodiversity Action Plan will assist in meeting the guidance in Planning Guidance (Wales): Planning Policy, and will further assist in ensuring that nature conservation is included in the surveys of local authority areas required by Section 30 of the Town and Country Planning Act (1990). This will ensure that development plans are based on fully adequate information about local species, habitats, geology and landform.

The county borough has made a start on collating data through its partnerships. It has carried out a Hedgerow Survey and begun a Pond Survey in partnership with the National Museum & Galleries of Wales, it has produced ‘The Birds of Bridgend’ (BCBC 2000) in partnership with Celtic Bird Tours, and has sponsored the Glamorgan Moth Recording Group’s ‘Provisional Atlas of Macro-Moths in Glamorgan’ (Gilmore & Stewart (1999). The CCW has provided copies of its Phase 1 Habitat Survey. Close day-to-day working with the local conservation and recording groups and agencies is an important way of accessing the data needed to prepare action plans.

A list of publications and data sources for Bridgend County Borough is given at Appendix 2 of Volume 2.

The National Biodiversity Network

Much information still needs to be obtained. There is also a need to further coordinate the sets of data held by different organisations and individuals. The National Biodiversity Network is a project attempting to establish a national data system and network of local biological record centres.

The Glamorgan Biodiversity Advisory Group, and its sister organisation the Greater Gwent Biodiversity Advisory Group, mirror the operating areas of agencies such as the Countryside Council for Wales and of voluntary sector organisations such as the Glamorgan Wildlife Trust. This existing co-operation on biodiversity issues would support the possible development of a Local Biological Records Centre serving Glamorgan and Gwent in the future.

The twelfth report of the House of Commons ‘Environment, Transport & Regional Affairs Committee’ was published on 7th July 2000. The Committee identified a number of shortcomings in delivering biodiversity action in the UK. Their report, entitled ‘UK Biodiversity: Interim Report’, identifies that primary legislation would be required to remedy some of these shortcomings, and one of their recommendations
is for a statutory basis to be given to local authorities and other public bodies to set up and maintain local biological record centres.

**LOCAL BIOLOGICAL RECORDS CENTRES**

The UK Biodiversity Steering Group Report suggests that local data management is best carried out by local biological record centres. Local centres are needed to both serve local needs and contribute information at a national level. The Report recommends that each centre should be developed and managed by a consortium of local organisations, and have the following functions:

- to act as a focus for biological record management in the area
- to manage the collection, validation and maintenance of key data sets on behalf of partners
- to act as a contact point for access to data by local and national users
- to provide support and guidance to recorders, local societies and recording schemes
- to provide support for the local planning process
- to promote and steer future survey
- to provide data and an information service to a range of organisations and individuals

The consortium-led approach has many benefits: managing partners will have a sense of ownership of the centre; costs of the data service are shared between a number of organisations; there is less duplication of records; it is easier to standardise and quality control the collection, validation and management of the data.

**Management Guidance for Habitats and Species**

There are many published sources of advice for the general management of habitats and specific management for species available, and some of these are listed in Appendix 3 of Volume 2. In addition, guidance may be sought from a wide range of organisations including:

- British Trust for Conservation Volunteers
- Coed Cymru
- Countryside Council for Wales
- Countryside Management Association
- Environment Agency
- Farming & Rural Conservation Agency
- Farming & Wildlife Advisory Group
- Forestry Commission
Chapter 6

GENERAL ISSUES AFFECTING BIODIVERSITY

The conservation of biodiversity is not only dependent on direct action for habitats and species; there are many wider issues that have a great influence on the welfare of wild plants and animals. Agriculture and development are two key issues in Bridgend County Borough, but many other human activities have considerable impact - for example, the various uses of land, patterns of resource consumption, energy use and transport. The intention of this chapter is to review these issues, and make the connection between biodiversity conservation and other activities.

The principal organisations and agencies that are represented on the various biodiversity forums in Wales, Glamorgan and Bridgend County Borough should develop their own awareness and understanding of how the various issues affect biodiversity, and chart a course of appropriate action. There are many different levels of action required, not least the integration of biodiversity objectives into plans and strategies such as Local Environment Agency Plans, for example. The Bridgend Biodiversity Partnership will encourage and support organisations that are formulating their own action for biodiversity.

AGRICULTURE

Agricultural use of land affects approximately 52% of Bridgend County Borough. This figure is a low estimate, since it is a sum of the areas of farmland as stated in the 1997 Agricultural Census, and does not include minor holdings (under 6 hectares) or land designated as common land. Agriculture plays a pivotal role in determining the biodiversity of the countryside and traditional farming practices are particularly important in maintaining wildlife habitats. Many different types of habitats occur on farmland, including ponds, hedgerows and wildflower meadows. Stubble, field margins and fallow land are also valuable for wintering, feeding and breeding birds. Often, within the farmed landscape, but usually not directly linked to the agricultural enterprise, woodland blocks and copses, are not only valuable for biodiversity but also for landscape and timber production.

Habitat Loss and Change

Changes in farming practice over the last fifty years - towards greater intensification and specialisation away from mixed farming systems - have resulted in major losses and fragmentation of habitat. These changes have come about through a national and European policy framework initially developed to meet an urgent need to produce more homegrown food at a time when Europe faced a serious risk of food...
shortage. The policies have encouraged food production without commensurate support for the conservation of biodiversity and protection of the landscape; these policies have remained unchecked for too long, and only now are reforms coming on stream.

Food production is important, but needs to be balanced with environmental objectives. Many of the habitats that remain have suffered degradation through drainage, nutrient enrichment, heavy grazing, re-seeding, the application of pesticides or herbicides and the lack of traditional management. Many farmers are aware of the effects of these practices on biodiversity and some are turning to alternative approaches such as integrated crop management.

**Incentives for Land Management**

The balance between agricultural production and conservation of biodiversity has, in recent years, been encouraged by the introduction of financial incentives to encourage farming practices more sympathetic to wildlife. Such agri-environment schemes, administered by the National Assembly for Wales, Countryside Council for Wales Agriculture Department, Forestry Commission, Cadw: Welsh Historic Monuments, National Parks and other public bodies, have included:

- Environmentally Sensitive Areas (ESA) Scheme
- Habitat Scheme
- Moorland Scheme
- Organic Aid/Organic Farming Scheme
- Countryside Access Scheme
- Set-Aside Scheme
- Farm Woodland Scheme
- Farm Woodland Premium Scheme
- Farm and Conservation Grant Scheme
- Tir Cymen
- Hedgerow Renovation Scheme
- Forestry Commission Grant Scheme (FCGS, including the Woodland Grant Scheme - WGS)
- Cadw: Welsh Historic Monuments Management Agreement
- National Park Management Agreement
- SSSI Management Agreements

Tir Gofal is the new ‘all-Wales whole-farm’ agri-environment scheme delivered on behalf of the National Assembly for Wales by the Countryside Council for Wales (CCW) in partnership with the Farming & Rural Conservation Agency (FRCA) and the National Park Authority in Snowdonia. Some of the above schemes will be running in parallel with Tir Gofal for the remaining years of their contracts before being phased out, but most (eg ESAs, Habitat Schemes, Moorland Scheme, Countryside Access Scheme, Tir Cymen, FCGS and smaller WGS) will eventually be integrated with, or subsumed by, the All-Wales Scheme.

Set-Aside Schemes remain available to arable farmers, but are not strictly agri-environment schemes although they can offer some wildlife benefits. Current policy
directives, reflected in the Tir Gofal scheme, should allow greater discretion in the implementation of schemes, so maximising benefits to wildlife at least with respect to nationally identified priority habitats and species. All of these schemes are vital to support the Biodiversity Action Plan. Funding is of course limited, and much good environmental management is reliant on the willingness and financial resources of land managers.

The ‘Agri-Food Partnership’ set up by the Welsh Development Agency, and of which Bridgend County Borough Council is a member, seeks to support the Welsh agricultural and food industry. Support includes the promotion of organic farming, and the development of farmers’ markets. The environmental benefits associated with the latter initiative is the reduction of long freight journeys (food miles), so reducing air pollution and the encouragement of environmentally friendly farming practices in the long term. Green consumerism is likely to prove an incentive for environmental land management, and encouraging local markets to buy produce from environmentally-managed land-holdings could bring benefits both to farmers and biodiversity.

Advice on Land Management

Advice to landowners on how to manage land for biodiversity is very important. Whilst the Country Landowners Association (CLA), the National Farmers Union (NFU) and the Farming Union of Wales (FUW) are all active in promoting environmentally sensitive farming, the availability of on-the-ground advice from advisors with a strong agricultural and environmental background is essential.

However, there is a lack of a Farming and Wildlife Advisory Group (FWAG) officer for Glamorgan, and advice and information is not always easy to come by. The Countryside Council for Wales has an advisory role on the management of SSSIs and with the Tir Gofal agri-environment scheme, although the coverage of these sites remains very restricted. The possible appointment of a FWAG officer is currently being investigated as part of a trans-boundary ‘Farmers Group’ initiative involving a number of the local authorities in the former Glamorgan county area.

Organisations in Glamorgan (through GlamBAG) are currently exploring ways to improve support and advice for the owners of the locally designated Sites of Importance for Nature Conservation.

Common Agricultural Policy (CAP)

Incentive schemes and advice, and the goodwill and sense of stewardship towards the environment by landowners, are all important. However, the primary determinant of the future of biodiversity within agriculture is the Common Agricultural Policy (CAP). Related aspects are consumer demand, social trends and employment within the countryside, policies promoting diversification of enterprise within the countryside and development in technology.

The original aims of the CAP were to increase agricultural productivity, ensure a fair standard of living for the agricultural community, stabilise agricultural markets, guarantee regular supplies of food and ensure reasonable prices to consumers.
The Policy has been very successful in these aims but was due for review. The CAP was in effect supporting farming practices which were insensitive to biodiversity needs, and this was at odds with the national rise in awareness, demand and policy for conservation. The CAP and national policy on biodiversity gave conflicting messages, and this was a source of frustration for many landowners and conservation organisations.

In 1997 the European Commission published Agenda 2000, a blueprint for the development of certain European Union policies including the CAP. The Commission suggested that CAP reform should be accompanied by measures to diversify rural economies, maintain social stability and conserve and enhance the environment. Reform of the CAP may result in removal of support for farm product prices over time. The issues involved are complex but one goal will be to integrate environmental objectives fully into the CAP, resulting in a re-invigorated agri-environmental policy, with new and extended agri-environmental instruments such as Tir Gofal more readily available.

A Range of Activity

Conserving biodiversity within the agricultural sector is a particular challenge and one that involves a wide partnership, from delivery of national and local incentive schemes and advice, to forecasting change and influencing policy. Particularly influential in the latter will be the NFU, FUW and CLA.

The aim of the Biodiversity Action Plan for Bridgend County Borough will be to influence this range of activity. Action stemming from the Plan will have to be clearly relevant to the landowners who manage a large proportion of our countryside.

DEVELOPMENT

Extensive loss of wildlife habitat, particularly within the last 50 years, has been caused by development. Significant activities include housing, industrial and business development, roads, coastal defences, land-fill and mineral extraction, resulting not only in loss of habitats, but also causing a variety of indirect impacts on nature conservation in the form of pollution, modification of water courses, disturbance of sites adjacent to development and isolation and fragmentation of habitats.

The demand for new development continues and has to be accommodated in accordance with the relevant Development Plan. Notwithstanding this requirement the quality of the environment must also be maintained.

Sustainable Development

Two key documents were published in 1994 - ‘Sustainable Development : The UK Strategy’ (HMSO 1994b) and ‘Biodiversity: The UK Action Plan’ (HMSO 1994a). Both are inextricably linked, since sustainable development ‘seeks to improve the quality of human life without undermining the quality of the environment’. In carrying out sustainable development, habitats and features that are effectively irreplaceable should not be destroyed, since once lost they are lost forever. The concept of
sustainable development embodies the principles of not only preventing destruction or damage, but also taking the opportunity to enhance biodiversity. Also important is the adoption of the precautionary principle: if in doubt about the environmental effects of the development, avoid the development.

> ‘Where there are threats of serious or irreversible damage, lack of full scientific certainty should not be used as a reason for postponing measures to prevent environmental degradation’

(Bergen Declaration on Sustainable Development in the UNECE Region, May 1990).

Land-use Planning

There are several pieces of national and European legislation and national government guidance which support biodiversity objectives, including:

- **EC Directive 92/43/EEC, on the Conservation of Natural Habitats and of Wild Fauna and Flora**
- **The Conservation (Natural Habitats Etc.) Regulations 1994**
- **Wildlife & Countryside Act 1981, as amended**
- **The Countryside & Rights of Way Act 2000**
- **Technical Advice Note 5: Nature Conservation & Planning 1996**

For development to be sustainable in terms of biodiversity, it needs to be well planned and controlled. The Unitary Development Plan for Bridgend County Borough, if it is to assist in maintaining and enhancing biodiversity at the local level, should be based on detailed audits of the nature conservation resource and the capacity of the area concerned to accommodate development. The UDP needs to contain policies which address the protection of designated sites of nature conservation importance, conservation of biodiversity in the wider countryside and the enhancement of biodiversity within development. Current Planning Guidance also requires planning authorities to conduct environmental appraisals of their development plans to make clear the implications of various strategies and policy alternatives.

The assessment of the effects of development proposals requires a disciplined approach, and decision-makers should be sufficiently well advised as to what makes a good environmental assessment and what the opportunities are for conserving or enhancing biodiversity.

**FORESTRY**

Forestry is a major land-use, and can have a great effect on biodiversity. Broadleaved woodlands throughout Wales have suffered from lack of management for decades due to changing markets and the reduced economic viability of woodland products. Replacement of native broadleaved woodland with conifers and the cessation of traditional forms of management such as coppicing have all led to a reduction in biodiversity. Circumstances are changing now, however, particularly with the provision of grant-aid. The role of Forest Enterprise, the commercial arm of
the Forestry Commission, has changed recently to include the protection and enhancement of biodiversity, especially in ancient woodlands, and the drafting of its own Habitat and Species Action Plans for forestry sites.

The Government has set out its approach to sustainable forestry in the UK Forestry Standard 1998. This provides a framework for protecting and managing woodland in the future and gives specific attention to biodiversity issues. In 1996 the Forestry Commission introduced Woodland Improvement Grants under its Woodland Grant Scheme, specifically targeting biodiversity conservation. Grants are available for under managed woods, including funding for the restoration of coppice and for woodland biodiversity. This new targeted approach to grants by the Forestry Commission will greatly assist biodiversity conservation.

Bridgend County Borough Council supports the appointment of a Coed Cymru Officer based within Rhondda Cynon Taff County Borough Council’s Planning Department. Coed Cymru promotes the use, protection and enhancement of the native woodlands of Wales. It represents a focal point for organisations that share a concern for native woodlands. Coed Cymru aims to rebuild the timber market for sustainable managed native woodlands, whilst ensuring that the vitality and biodiversity value of each individual woodland is enhanced through positive management.

COASTAL ISSUES

The coastline of Bridgend County Borough supports a rich assemblage of plants and animals. The large sand-dune systems of Kenfig and Merthyr Mawr are sites of European importance for nature conservation. There are only small areas of intertidal mud and salt-marshes, but other habitats include rocky outcrops, cliff, shingle spit and beaches, all of which are important as feeding and roosting places for large numbers of birds - particularly in winter and at migration times - and for other species. Nevertheless, the coast is suffering from pressures that threaten this wildlife interest, including exploitation of offshore sandbanks and channel dredging.

Sea level rise due to global warming also puts pressure on the coast. Within the Bristol Channel a significant loss of inter-tidal habitats is predicted as they are ‘squeezed’ between rising sea levels and coastal defences. A sea level rise of 6mm per year along the coast of Glamorgan has been predicted; this would give a 32cm increase by 2050. The amenity value of the coast introduces further pressures from recreation and tourism. Pollution is also a problem and includes organic enrichment from sewage and agricultural run-off.

The Swansea Bay Shoreline Management Plan should fully embrace biodiversity objectives. The issues and action required will be included in coastal habitat action plans.

RECREATION AND TOURISM

The trend towards an increasing use of the countryside for recreation is important. Most visits are less than a five-mile round-trip from home, so access to recreation
near to where people live is particularly significant. Access helps to increase public understanding of nature, thus making a contribution to biodiversity protection.

Visitor pressures can, however, be detrimental, especially at heavily used sites, where sensitive species and habitats may be damaged. Noisy, disruptive and damaging activities should be prevented or very carefully controlled in vulnerable sites such as ancient woodlands, fens, heathlands and coastal habitats. On the other hand, some habitats can readily absorb recreational use, such as forestry sites for example. Appropriate measures will be included in Habitat Action Plans where relevant.

Visiting the countryside is one of Britain’s most popular leisure activities, and there is clearly an opportunity to promote concern for biodiversity as a central theme in all countryside recreation and tourism initiatives. Raising awareness among people about the needs of the plants and animals that they enjoy seeing in the countryside, will also help to achieve biodiversity objectives.

WATER MANAGEMENT

Biodiversity can be affected in a number of ways by how water is used. Climate change, inappropriate site management and abstraction can all lead to rivers, lakes and wetlands being severely depleted. Wetland habitats, and the wildlife which depends upon them, can be seriously affected by lack of water and the reduction in quality of remaining supplies. The naturalness, variety and extent of wildlife habitat along watercourses are at risk from inappropriate watercourse management and surface drainage.

Effluent from sewage treatment works and industrial processes, and run-off from farmland, may go directly into watercourses or seep into groundwater. Pollution such as this is the other main concern for wetland biodiversity. It is especially problematic where high nitrate and pesticide concentrations, and low dissolved oxygen levels, are the result - many animals and plants which depend on clean water cannot tolerate these conditions. Regulation of these aspects falls within the role of the Environment Agency.

Continual provision of new water resources is unsustainable, and demand for water needs to be managed. All new development, whether for industry or housing, has potentially significant water resource implications.

ENERGY

The production, transmission and use of energy have wide-ranging effects on biodiversity. The generation of energy requires large installations such as power stations, transmission lines, or pipelines, which affect biodiversity directly through land-take. It is important that these installations are sited sensitively, away from vulnerable wildlife habitats.

The burning of fossil fuels results in both acid deposition and the release of pollutants such as carbon dioxide into the atmosphere. Acid rain affects a variety of habitats, particularly forests and lakes. However, the release of carbon dioxide is
having a more widespread effect. Emissions of greenhouse gases by burning fossil fuels have now been positively linked with global warming. This will result in very significant implications for biodiversity.

A sustainable energy policy that reduces energy demand and increases the use of renewable resources such as solar power and biomass fuels was adopted by Bridgend County Borough Council in May 1997. The ‘Environmental and Sustainable Development Policy’ states that: "this authority will make every effort to use environmentally safe and sustainable energy sources and seek to eliminate the unnecessary waste and use of energy in its own buildings, plant and equipment and promote responsible energy and water management throughout the county borough". The aim is to promote and encourage energy and water conservation and efficiency of use. To this end recent energy production schemes in the county borough have included energy from methane gas at Tythegston and Stormy Down, a waste to energy scheme at Tythegston and several natural gas power stations developments.

TRANSPORT

There are both direct and indirect impacts on biodiversity caused by transportation. The growth of road transport is particularly significant, since road construction can damage, fragment or result in the complete loss of habitats, and it can also create barriers to species movement. Extraction from gravel pits and quarries for aggregates, and development adjacent to roads, can also affect wildlife.

In terms of Bridgend County Borough, car ownership and use has increased significantly in recent years, and traffic is forecast to continue growing at an unsustainable rate. The development of an integrated transportation strategy will hopefully address these issues successfully. Upgrading of the road network, if it involves new highway construction, could have significant effects on wildlife and it is important to ensure that each project does not affect important habitats. The new emphasis on reduced road construction, improved public transport, and maintenance of the existing infrastructure will reduce, but not remove, this impact.

Cycling and walking strategies are also being developed in the county borough to reduce the reliance on the private car and to change the public’s attitude to more environmentally sustainable travel. The maintenance and improvement of the existing transportation infrastructure will take priority over the development of new routes, except in exceptional circumstances.

The first Local Transport Plan for Bridgend, was submitted to the National Assembly for Wales at the end of August 2000, and brought together a wide range of practical measures at the local level to produce a comprehensive integrated transportation strategy.

AIR QUALITY

The main sources of air pollution are transport and energy production, both of which release pollutants into the air. Many industries may also contribute to low air quality, although this is a relatively minor factor in Bridgend County Borough.
Air pollution has well documented effects on people’s health, but less well known are the implications for biodiversity. The effects are both local and widespread. For example, acid deposition can result in acidification of soils and water bodies, and the release of chemicals such as sulphur and nitrates can also affect organisms. Sensitive species such as lichens, habitats naturally low in nutrients and habitats on acid soils or in acid waters are particularly at risk from poor air quality. Regulation of these aspects falls within the role of the Environment Agency.

**CLIMATE CHANGE**

‘Greenhouse gases’ being emitted worldwide contribute significantly to global warming. Even small changes in the earth’s temperature could have great effects on biodiversity. Predicted changes include a rise in sea levels and a general warming of temperate regions, which will result in shifts in the composition of aquatic and terrestrial communities, and changes in wildlife behaviour and habitats.

Sea level rise is a considerable threat in Bridgend County Borough and the problems and opportunities need to be anticipated and planned for. Coastal habitats will be lost and species on the edge of their range may well disappear. Climate change illustrates that a long-term perspective for biodiversity needs to be taken in the preparation of action plans.

### GENERAL ISSUES: ACTION

- Encourage organisations and individuals with a particular responsibility for land-use and land management activities such as agriculture, development, forestry and water resources, to establish their own objectives and action for biodiversity, taking particular account of targets and action outlined in habitat and species action plans;

- Establish groups where appropriate to review issues influencing biodiversity and prepare plans of action;

- Take full account of biodiversity objectives within land-use plans and strategies such as the Unitary Development Plan for Bridgend County Borough and Local Environment Agency Plans;

- Influence local and regional policy and national guidance, policy and legislation to support biodiversity objectives in Bridgend County Borough.
Chapter 7

AWARENESS AND INVOLVEMENT

Biodiversity conservation cannot just be left to people involved in land management and nature conservation. It involves many sectors of society and people in all walks of life. Although many people are aware of the need to conserve biodiversity, they do not always appreciate that it concerns them directly, or that their actions can make a difference.

Action plans will specifically address awareness and involvement issues. The Bridgend Environmental Education Partnership (BEEP) is well placed to assess current initiatives and their effectiveness, identify gaps, and consider methods of spreading the biodiversity message. Some initial ideas are sketched out here.

Key Sectors

One of the main aims of this Local Biodiversity Action Plan is to increase understanding and support for biodiversity throughout Bridgend County Borough. This needs to involve key sectors of society - farmers and land managers, all levels of government, business and industry, media and education, youth and community groups and the professions. Successful implementation of many of the Species and Habitat Action Plans will depend on widespread understanding.

Biodiversity messages and initiatives can be geared to the particular interests of each sector. For instance, much of the success of the biodiversity programme is dependent upon action by farmers - farm managers and the farming industry will be keen to know how to promote biodiversity without losing long-term profitability. In education, schools need to be aware of all the opportunities for integrating biodiversity into the curriculum and finding ways to interest young people in the natural world.

Getting the biodiversity message across is the job of the Bridgend Biodiversity Partnership, but the support of people in each sector who can communicate in terms that are both relevant and understandable to the sector concerned, is also important.

The Public’s Role

The biodiversity message needs to reach everyone as individuals too, focusing on the benefit of biodiversity conservation to us all. There is the enjoyment of contact with nature, the need to protect wildlife for our children and our moral duty to protect wild species. Action for biodiversity will improve the quality of everyone’s life in his or her own neighbourhoods and communities.

There are several ways to raise awareness of biodiversity. The most familiar ways are through publications, illustrated talks, displays in shopping centres and libraries, and wildlife walks. Other ways involve adverts or programmes on radio and television, using the Internet, even marketing biodiversity alongside popular products.
A more active part can be played by people by improving their own gardens for wildlife, joining a local conservation organisation, helping to clean up local habitats, or setting up a wildlife corner in their local green space. Local plants and animals can be celebrated in festivals and other events. Initiatives such as these give people a greater understanding of their local biodiversity, and will also give them a stake in its well being. Direct experience builds appreciation of biodiversity conservation.

**Education and Training**

Integrating biodiversity conservation into formal education is one of the most important ways of raising awareness. Young people form their attitudes to the environment at a very early age, and if children understand and respect nature they are more likely to grow into environmentally aware adults. Educating school children can also have an important knock-on effect to parents and the wider community!

Several national initiatives are examining how biodiversity can be better integrated into the National Curriculum and teacher training. On a practical level, biodiversity education can be promoted through ensuring that all schools have access to nature areas, preferably within their own school grounds. The Bridgend Environmental Education Partnership has been set up to co-ordinate and sponsor environmental education initiatives in the Bridgend County Borough area. BEEP’s web-site is at:

www.bridgend.gov.uk/english/beep

Visitor centres such as those at Kenfig National Nature Reserve and Bryngarw Country Park provide a focus for practical activities and field studies, offer equipment and teaching materials, and house exhibitions and libraries of information. Nature reserves in the community, whether rural or urban, give people access to wildlife at first hand.

**Coordinated Programme**

Successful implementation of this Local Biodiversity Action Plan depends on widespread understanding of all the issues. Public understanding and support must underpin actions, and there is a particular need for heightened awareness within those sectors that can have an influence on biodiversity conservation.

There are many excellent initiatives already. Examples include the Bridgend Environmental Education Partnership already referred to above, the national WATCH project for children, and the Kenfig National Nature Reserve’s environmental education programme.

However, effort is needed to co-ordinate the work of all of these initiatives, identify gaps, and greatly increase popular support. We need to get the key messages of biodiversity conservation across to both the general public and to key sectors. Leaders in society will be needed to champion the cause, and more examples of good practice will be needed to illustrate what can be accomplished. Biodiversity should become a household word and an issue that transcends all levels of society.
<table>
<thead>
<tr>
<th>AWARENESS AND INVOLVEMENT: ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Bridgend Biodiversity Partnership should prepare an action plan to address awareness and involvement in biodiversity conservation</td>
</tr>
<tr>
<td>Ensure that information on biodiversity and how to get involved in conserving biodiversity is readily available to the public. Local authorities and voluntary conservation organisations in particular can promote awareness and provide opportunities for involvement through mechanisms such as grant-aid for community projects and the management of nature reserves</td>
</tr>
<tr>
<td>Promote the Biodiversity Action Plan for Bridgend County Borough and publicise the main objectives and programme of action</td>
</tr>
<tr>
<td>Develop a strategy for marketing biodiversity which targets key sectors such as business and industry, all levels of government, the public, land managers and education</td>
</tr>
<tr>
<td>Encourage and support organisations in developing their corporate awareness and commitment to biodiversity, for example within all departments of local government</td>
</tr>
<tr>
<td>Ensure that biodiversity is a central component of Local Agenda 21 programmes and that Agenda 21 initiatives help to generate awareness and involvement in biodiversity</td>
</tr>
<tr>
<td>Support the integration of biodiversity conservation into formal education</td>
</tr>
</tbody>
</table>
Chapter 8

THE WAY FORWARD

This Local Biodiversity Action Plan for Bridgend County Borough marks the beginning of a coordinated programme of action. Everyone concerned with the conservation of Bridgend County Borough’s biodiversity has an important role in ensuring the success of the objectives of the Plan.

The Bridgend Biodiversity Partnership is committed to working together to further biodiversity conservation, and is keen to see all interested parties join with them to bring about the action that is needed.

The Partnership has a long-term vision for the biodiversity programme. Taking action will involve a great variety of projects, initiatives, courses of action and levels of activity. Some can be progressed immediately, while others will evolve over time. The process needs to be adaptable to changing circumstances. The Partnership is committed to a long-term association, one that will monitor and review progress over many years ahead. This will require considerable coordination to ensure that we remain focused and stay on course to deliver action and meet the targets that we set for ourselves.

WAY FORWARD: ACTION

Develop and maintain a long-term Partnership to progress the conservation and enhancement of biodiversity in Bridgend County Borough through developing initiatives, exchanging information, encouraging action, and monitoring and reviewing progress.

Encourage individual partners to review their own action, to help meet the objectives and targets set out in the Biodiversity Action Plan and associated habitat and species action plans.

Monitor the development of the UK Biodiversity Programme and other policies and initiatives at the national and international level, for integration into the Biodiversity Action Plan for Bridgend County Borough.

Review and update the Biodiversity Action Plan, including the habitat and species action plans, every five years.
Annex 1

1a Preliminary Assessment of Key Habitats, determined by the Bridgend Biodiversity Partnership

One of the first things that the Bridgend Biodiversity Partnership attempted was a brainstorming exercise to identify priorities. The list produced is reproduced below:

<table>
<thead>
<tr>
<th>Bridgend Biodiversity Partnership</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brain-storming Session 17th November 1999</td>
</tr>
<tr>
<td>Important Habitats in Bridgend County Borough</td>
</tr>
</tbody>
</table>

**Sea-shore** (13 kms) and coastal habitats: much is of international importance

**Sabellaria beds**

**Mussel beds**

**Rocky shore**

*associated features:*
- Purple Sandpiper, fossils (350m years)

**Rock-pools**

**Sandy shores**

*associated features:*
- Sandhill Snail, Strandline Beetle (*Eurynebria complanata*)
- Blind woodlouse

**Sand Dunes**

*associated features:*
- Fen Orchid *Liparis loeselii* var. *ovata*
- The Liverwort *Petalophyllum ralfsii*
- Long list of BAP priority species recorded (Kenfig cSAC)

**Limestone Pavement**

*associated features:*
- Long list of moths and butterflies
- RIG designation (Lock’s Common)

**Estuary** (Ogmore River, Kenfig River)

*associated features:*
- Saltmarsh areas

**River Systems** - Llynfi, Ogmore, Garw

*associated features:*
- Dippers, Otters, Grey Wagtails
- River gorges, ferns (e.g. Darren-y-Dimbath)

**Reedbeds**

*associated features:*
- Kenfig Pool, Parc Slip
- Bittern, Cetti’s Warbler, Aquatic Warbler

**Molinia/Juncus** wet pasture

*associated features:*
- Marsh Fritillary, Narrow-bordered Bee Hawk-moth, Double Line Moth

**Farmland** - grazing pastures, field edges

*associated features:*
- Decline in birds due to loss of traditional mixed agriculture

**Hedgerows**
**Associated features:**
Dormouse, Lesser Whitethroat

**Restored Land** - e.g Parc Slip
*associated features:*
- extensive areas, experimental habitat creation
- Scarce Blue-tailed Damselfly (only BCBC site?)
- Golden Plover (winter), lapwing (breeding)

**Neutral Grassland**
*associated features:*
- “Hay Meadows”, species-rich MG5

**Acid Grassland**
*associated features:*

**Calcareous Grassland**
*associated features:*
- Small Blue butterfly
- localised plant communities

**Woodland**
*associated features:*
- some is Ancient
- Coed Cymru initiative supported
- Wet woodland (e.g. Garw, Llynfi)
- Oak-Ash (sheep exclosures)
- Conifer

**Moorland (upland)**
*associated features:*
- rocky cliffs, quarries, heather

**Open Water**
*associated features:*
- Kenfig Pool, Sker Pool, Pink Bay Pond, Wilderness, Pwll-y-Waun
- Great Crested Newt

**Swamp, Valley Mire and Bogs**
*associated features:*
- rarity

**Bracken**
*associated features:*
- where violets in understorey, on south-facing slopes, potential for High Brown Fritillary

**Road Verges**

**Parks**

**Gardens**

**Disused Railway Lines**

**Quarries**

**Amenity Grassland** and **Urban Green Space**
1b Guidance on the Rationale and Methodology for the Selection of Sites of Importance for Nature Conservation (SINCs)

The Government's objective for biodiversity is to construct policies that contribute to the conservation of UK flora and fauna, whilst minimising adverse affects of development. All tiers of Government and public agencies involved in the development of land and economic growth have a duty to balance the needs of development with the preservation of natural resources in line with the principles of ‘Sustainable Development’.

Article 10 of EU Directive (92/43/EEC) The Conservation of Natural Habitats, Wild Fauna & Flora ('The Habitats Directive') identifies the important role that links or stepping-stones from one important habitat to another can be in contributing to the overall biodiversity of an area. These regionally or locally important sites play a vital role in protecting sites further up the designation hierarchy.

A system of locally important sites, termed SINCs (Sites of Importance for Nature Conservation), have been identified and designated within Bridgend County Borough. The planning system plays a crucial role in the promotion of biodiversity including the protection of these designated non-statutory sites. This is achieved through the development control process, of which, this document forms part. The purpose of this Supplementary Planning Guidance is to:

- Provide guidance on the treatment of SINCs in the development control process
- Set out standardised mitigation and compensatory measures to ensure that development does not impact significantly upon the identified SINCs

Policy Context

National planning guidance encourages the use of non-statutory designations to protect locally important sites of substantive nature conservation value. This aspiration has been stated in two Government policy documents; ‘Sustainable Development: The UK Strategy’, and ‘Biodiversity: The UK Action Plan’.

Planning Guidance (Wales): Planning Policy 1st Review (PG(W):PP) recognises the need for local planning authorities to maintain and where possible, enhance the quality of the countryside outside statutory designations (paragraph 5.3.5 PG(W):PP). The importance of “other designated sites” in the conservation of natural heritage is an issue identified within the policy document.

PG(W):PP goes on to note that there is a need to develop planning policies which differentiate between statutory and non-statutory designations. Paragraph 5.3.15 PG(W):PP obligates local planning authorities to
formulate policies that conserve the natural beauty and amenity of the countryside.

Planning Guidance (Wales): Technical Advice Note 5 – Nature Conservation builds upon the policies of its parent document with regard to non-statutory sites of nature conservation. Paragraph 29 states:

“Non-statutory sites of local nature conservation importance (often known collectively as Sites of Importance for Nature Conservation [SINCs]) should be both selected and designated…”

(PG(W): TAN 5 - 1996)

The need for weight to be given to the protection of non-statutory sites is recognised by the South East Wales Strategic Planning Group. As such, Recommendation LNC5 of Strategic Planning Guidance for South East Wales states “All development plans should contain policies which allow for the appropriate protection of species and wildlife networks and corridors”.

Part I of the Bridgend County Borough Unitary Development Plan sets the local policy context for the protection of biodiversity. Policy 2 encourages developers and all other agencies to ‘protect, conserve and enhance ..... national, regional and local biodiversity’. These principle aims are progressed into detailed policy in Part II of the UDP. Policy EV19 protects regionally and locally recognised sites of nature conservation and geological importance.

Policy EV19 – UDP Part II
Development Affecting Local/Regional Sites for Nature Conservation

“Proposals which seriously prejudice the continued viability of, or cause harm to, a designated Local Nature Reserve, a Site of Importance for Nature Conservation, or a Regionally Important Geological or Geomorphological site, as defined in the UDP, will not be permitted.”

A number of supporting documents produced by Bridgend County Borough Council and various partners relate to this Supplementary Planning Guidance. These are:

- A Countryside Strategy For Bridgend County Borough – 2000/05
- Landscapes Working for Bridgend County
- The Ogwr Wildlife Strategy (approved by Council in January 1994)

These documents expand upon the detailed issues that are faced by the mainly rural areas of the County Borough. The Countryside Strategy sets the context from which the policies within the UDP are formulated, whilst Landscapes Working for Bridgend County Borough propose appropriate and sensitive design details for new developments and regeneration schemes.
The Ogwr Wildlife Strategy sets the context and background for the SINC system in Bridgend County Borough.

**Rationale of SINCs**

The governing principle of the SINC system within Bridgend County Borough is to conserve and enhance biodiversity and the landscape through the protection of habitats of local value and significance. There are also several more specific functions that these sites perform, namely:

- protect and provide a network of ‘Green Corridors’
- reverse fragmentation and species isolation
- protect areas of community, social and amenity value
- protect areas of ‘Urban Biodiversity’

**Green Corridors**

Identified sites will create a network of designations alongside nationally and internationally important sites, to aid in the migration and dispersal of genetic diversity within species. These objectives are identified by the *Habitats Directive*, and are similar to those that guide the Directive’s ‘Natura 2000’ network of Special Areas for Conservation.

**Reversing Fragmentation and Species Isolation**

The protection and enhancement of non-statutory sites of importance for nature conservation can be utilised to halt, and to a degree, reverse the process of habitat fragmentation. *‘Biodiversity: The UK Action Plan’* (page 168) states that “the fragmentation or isolation of key habitats is to be avoided and wherever practicable, past fragmentation is to be reversed”. It is an explicit target in the UK Action Plan to increase, expand and extend the area, range, population size, occurrence and distribution of many priority habitats and species in the countryside. Fragmentation is a force acting contrary to these targets, often resulting in habitat extinction, changes in community composition, reduced genetic diversity, exposure to pollution and physical disturbance from neighbouring external activities. Throughout the countryside and in urban areas, these habitat fragments and ‘connecting’ landscape features often provide the greatest opportunities for species migration.

Many important species of wildlife are widely dispersed with healthy overall population numbers. However, they may become isolated from one another. This too can generate the negative impacts upon a particular species that are outlined in 3.3.1.
Wider Community, Social and Educational Value

Although the sites are of a ‘substantive nature conservation value’, they are not purely protected for their value to ecology. SINCs can also be important for their amenity and education value to the wider community. These purposes are particularly relevant and important in the urban areas of Bridgend, Porthcawl, Maesteg, and Pencoed, where access to semi-natural countryside is both restricted and diminishing.

Urban Biodiversity

Investment in the protection and enhancement of features of nature conservation importance and biodiversity are particularly significant in and around the highly urbanised areas. These urban oases of semi-natural habitats are the most under threat from development, and their protection can provide ecological, social and economic benefits. Urban SINC designations also provide an element of interconnectivity between the town and countryside, in line with the recommendations made in ‘Towards and Urban Renaissance’ – The Rogers Report (DETR 1999).

Areas of urban biodiversity also suffer from habitat fragmentation and species isolation. Therefore, urban SINCs can help the migration patterns and genetic dispersal of flora and fauna, whilst providing the visual amenity and associated benefits, mentioned in 3.5.1.

Guidelines for the Treatment of SINCs in the Development Control Process

As part of an holistic approach to the protection and promotion of biodiversity, a second non-statutory tier of important sites is necessary. Locally designated important sites are vital to biodiversity conservation in south east Wales as statutory designations do not preserve the wider biological resources. This aim has been achieved through the designation of Sites of Importance for Nature Conservation (SINC).

The conservation of the physical and natural environment is a central concern of both national and local planning policy. However, there is as yet no statutory guidance on the way in which locally important sites are to be dealt with within the development process.

1. Proposals for development which adversely affect a designated Site of Importance for Nature Conservation will normally be rejected, unless the applicant can demonstrate to the satisfaction of the LPA that other material considerations outweigh the nature conservation value of the site.

Where applications for the development of a site are deemed to have an adverse effect upon a designated SINC, the developer must demonstrate
that there are material considerations that outweigh the biodiversity importance of these sites. However, planning consent will not be refused if a permission has conditions attached that will prevent damage to wildlife, their habitats and important features. Other policies are needed to encourage those developments that protect habitats and promote biodiversity.

Applications that are deemed to adversely affect a designated SINC will be subject to a rigorous examination if it is to satisfy Guideline 1. The consideration of such applications will therefore include an assessment of:

- The need for the development in terms of national and regional considerations, and the impact of permitting it or refusing it upon the local economy;
- The cost and scope of locating the development elsewhere, or meeting the need for the proposal in some other way;
- The detrimental effects on the SINC(s) and the ease and extent to which they can be mitigated against or compensated for.

### 2. Where a development proposal has been deemed acceptable in terms of Guideline 1, adequate mitigation measures will be sought.

Whilst the overall aim of the SINC network is to protect locally significant sites of nature conservation importance, there is also the recognition that there is a need to facilitate and enhance the economic growth of Bridgend County Borough. If a developer can demonstrate that their proposal is satisfactory in terms of the test for Guideline 1, then appropriate mitigation measures will be sought. These measures will be used to reduce or ameliorate the adverse impacts of a development upon any designated SINC. There are a variety of ways in which the adverse effects of a development can be mitigated against. This may include:

- Timing or phasing the development to avoid key times of the year, weather conditions etc;
- Provide sympathetic and appropriately landscaped areas throughout the development to complement the existing SINC habitats (Guideline 6 refers);
- Provision of a strip of appropriate landscaping, or ‘buffer zone’, between a SINC and a development (Guideline 7 refers);
- Design the layout of the development so that adverse effects are directed away from SINC interests, on or off the site.

The mitigation of impacts upon nature conservation features is a specialist field. Therefore, it would be appropriate that the technical input of a competent ecologist be sought. Discussions with both officers from the Planning Department and an ecologist at an early stage can avoid delays and problems at a later stage of the determination process.
3. Where a developer has demonstrated that the proposal necessitates the substantial loss, in part or wholly, of a designated SINC, adequate compensatory measures will be sought.

There are a number of examples where SINC designations partly or wholly overlap land uses allocated within the UDP. Therefore, if a development proposal satisfies Guideline 1, the subsequent loss of a SINC, in part or wholly, will occur. It is the intention therefore, through Planning Agreements, to seek adequate compensatory measures when such a development occurs. Compensatory measures are usually confined to the development site, although this will not always be the case.

Essentially there are four categories of compensatory measures that are considered to be acceptable. These are:

**Habitat Re-creation** – the recreation of the lost or disturbed SINC habitat(s) either within or outside the development site. The newly recreated habitat(s) should be of at least an equal significance of the original.

**Habitat Creation** – the creation of an entirely new habitat(s) within or outside the development site. The created habitat(s) may not be a replication of those lost, but should be of at least equal nature conservation significance.

**Habitat Enhancement** – the improvement of a deteriorating SINC or another area of neglected habitat, through appropriate management or resource input. The SINC/habitat(s) can be within or outside the development site boundary.

**Educational Enhancement** – these are measures that are aimed at raising awareness of nature conservation and biodiversity through initiatives such as community input to habitat management, improving access, and interpretative or teaching facilities.

Appropriate compensatory measures are not restricted to one of the four categories above. Whilst the re-creation of the lost or disturbed habitat is a primary objective, the other measures will assist in achieving an acceptable package of compensation.

However, it is recognised that the re-creation of some habitats is not achievable, whilst others require continued management. Therefore, in order to ensure that a new habitat matures to produce high quality areas of biodiversity, a regime for its continued management should be agreed with the Local Planning Authority, with advice from the Countryside Council for Wales.

4. Applications for development that are considered to have an affect upon a designated SINC must undertake an ecological assessment.
To enable a thorough appraisal of the likely impacts of a development upon a SINC it is first necessary to obtain a sufficiently detailed level of base information. The requirement to submit this additional information is Article 4 of the Town and Country (Planning Applications) Regulations 1988 (SI 1988/1812).

The additional information will form an integral part in the decision-making process. Ideally an informal scoping exercise should be held with the relevant Council officer(s) to establish the data sets to be collected and the appropriate level of investigation. The following information will normally be required:

**Description of SINC** – This will include an ecological survey of the affected SINC(s) at an appropriate level of detail and competence, usually referred to as an Extended Phase 1 Survey.

**Description of Proposal** – Brief summary, with plans, of the development including any associated infrastructure requirements, drainage, emissions, landscaping, etc.

**Assessment of Likely Impacts** – Statement with plans of the extent and nature of the likely impacts, negative and positive, direct or indirect, upon the SINC(s).

**Proposed Mitigation or Compensation** – Details of any mitigation measures needed to offset the likely adverse impacts of the development, or any compensatory measure to be provided.

**Future Monitoring/Management** – Brief statement outlining how any compensatory/mitigation is to be managed after the completion of the development. This can also be addressed through Planning Agreements.

The submission of an assessment of this type should not be confused with the requirement to provide a formal Environmental Impact Assessment (EIA). However, if the proposal does fall within either Schedule 1 or 2 of the Town and Country Planning (Environmental Impact Assessment) (England and Wales) Regulations 1999, full consideration of designated SINCs will be expected by this Authority.

5. Development proposals that wholly or partly incorporate a designated SINC into the design and layout of the scheme will be encouraged.

The presence of a designated SINC wholly or partly within the boundary of a development site is frequently seen as an obstacle, and therefore disregarded within the design process. The majority of medium to large scale proposals contain elements of formal landscaping, open space, and undeveloped land. These offer an opportunity to incorporate an established SINC into the development by not formalising these areas.
These measures will be secured through negotiation, preferably at the master planning stage of the development. Developers will be expected to address the need for necessary and appropriate management of the SINC features affected by their proposals. However, where necessary, the integration of the SINC features within the proposed development will be assured through the imposition of appropriate conditions, or through Planning Agreements facilitated by Section 106 of the *Town & Country Planning Act 1990*.

6. **Landscaping schemes that are sympathetic to, and reflect the biodiversity interest of incorporated or nearby SINCs will be encouraged.**

The inclusion of habitats into the development in line with Guideline 6 is a positive step towards meeting the objectives of sustainable development. However, unsympathetic treatment of ‘spared’ SINC habitat through inappropriate landscaping and development layouts can produce negative impacts and hamper efforts to conserve and enhance biodiversity.

The effective integration of a SINC habitat into a development can be supplemented by the planting of indigenous species of flora. The use of indigenous species that are similar or complementary to those occurring in the integrated SINC would further advance biodiversity and sustainable development objectives.

7. **Where development proposals share a common boundary with a SINC, a buffer zone of appropriate landscaping should be provided.**

Where a development’s boundary abuts that of an adjacent SINC, or has incorporated a designation within the layout, an appropriately landscaped ‘buffer zone’ should be established. The buffer zone’s primary objective is to protect SINC habitats against any adverse impacts caused by the proximity of a development. Guideline 7 links directly to the objectives set out in Guideline 6 regarding the flora used within landscaping schemes.

The buffer zones width varies with the type of development and the nature of the SINC habitat being protected. The table below provides a general guide to the minimum standards required by Bridgend County Borough Council.

<table>
<thead>
<tr>
<th>Habitat</th>
<th>Minimum Buffer Zone Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>Riparian Corridor</td>
<td>10 metres</td>
</tr>
<tr>
<td>Broad-leaved Woodland</td>
<td>5-10 metres</td>
</tr>
<tr>
<td>Scrub/Bracken</td>
<td>5 metres</td>
</tr>
<tr>
<td>Grassland</td>
<td>5 metres</td>
</tr>
<tr>
<td>Marsh/Wetlands</td>
<td>15 metres</td>
</tr>
</tbody>
</table>

**SINC Designation Process**

The mechanism for designating the original 174 SINCs in Bridgend County Borough was through the Ogwr Wildlife Strategy produced by the Ogwr Wildlife Forum in the mid-1990s. This Strategy and its list of SINCs was approved by Ogwr Borough Council in January 1994. *Landscapes Working for Bridgend 1996* reviewed these SINCs and re-published the list of sites. Subsequent desk top study and field truthing have been employed to create a GIS layer of SINC areas, together with proformas indicating their status and nature conservation interest.

The designation process can be broken down into six distinct stages:

1. **Site Identification**
2. **Site Survey**
3. **Examination of Sites Suitability**
4. **Defining Boundary**
5. **Recording of the Site**
6. **Consultation/Verification**

Each of these stages involve a series of specialised steps that are firstly aimed at ensuring that each potential SINC is worthy of designation, and secondly, that the boundaries include all the habitats and features of interest.

**Site Identification**

The first point of reference for identifying SINCs is the original list of Sites of Nature Conservation Interest (SINC) drawn up in by Groundwork Bridgend in “A Wildlife Strategy for Ogwr 1996”. This initial list served to centre in on important areas to begin more detailed surveying. A large number of potential candidate sites were identified, but were narrowed down to a more definitive list using the following criteria coupled with the ecological information gathered from a variety of sources. The selection criterion was as follows:

- habitat diversity
- size
- rarity of habitat within the study area
- fragility
- presence of important flora and fauna
- community, social and educational value
- naturalness/typicalness
**Habitat diversity**
The diversity of a habitat, and the extent to which it can be held up as a good example, is best assessed against the relevant plant community tables of the *National Vegetation Classification 1991*.

**Size**
There are no size thresholds for SINCs. However, sites that are considered too small to form a viable wildlife site should be filtered out, unless there are overriding reasons for its inclusion.

**Rarity**
The rarity of a particular habitat or feature is based upon its occurrence nationally, regionally, or locally. The types of habitats that qualify for designation have been identified in the UK and Local Biodiversity Action Plans, and the emerging *Gwent, Glamorgan and Carmarthenshire Habitat Action Plan*.

**Fragility**
The fragility of a particular habitat at a specific location relates to the long term probability of the loss of that site. The loss of the habitat can be due to a variety of factors, including; natural processes, decline/cessation of traditional management, or development pressure.

**Presence of important flora and fauna**
A particular site may not contain a habitat that qualifies it to be included as a SINC under any of the other criteria. However, the maybe an occurrence of a rare, protected or UK/Local BAP species of flora or fauna.

**Naturalness/Typicalness**
The naturalness/typicalness of a habitat refers to whether this is a good example of that particular category. This can be assessed by comparison to the detailed descriptions of UK plant communities provided in the National Vegetation Classification. The designation of a SINC based on this criterion should essentially show as near to a ‘text book’ example of that particular habitat.

**Community, social and educational value**
Although not a scientific or ecological criteria, the value of a site to a particular community may warrant a site’s designation that is of a marginal value. Sites selected will usually have an identified amenity or educational value, or provide ‘green open space’ in an area particularly lacking in such features.

A report was prepared in 2000 by David Clements Ecology and Pryce Consultant Ecologists at the request of the Gwent and Glamorgan Wildlife Trusts. Its purpose was to set out a framework for the further development of guidance for the selection of SINCs, including consideration of common criteria. This report is currently being reviewed by a sub-group set up by the Glamorgan and Gwent Biodiversity Advisory Groups and will inform a review of the above criteria.
CCW Phase 1 Habitat Data

The other principal source of information that is predominantly used in site identification is the Countryside Council for Wales’ Phase 1 Habitat Data. This data is assembled in the form of maps that classify, in broad terms, the habitat classifications for all the land within the County Borough.

Aerial Photographs are also used to identify the extent of the habitats on the ground. The Phase 1 maps are useful, but they are only schematic. The photographs provide a view of how the site actually looks. Finally, information on areas was gleaned from other organisations' publications. Of particular use was information and records held by the Glamorgan Wildlife Trust.

Site Survey

The most important stage of the whole process is the survey work on-site. The previous information regarding a site becomes more and more outdated as the project progresses. This aspect of the project gives a current picture of a site. Site surveys can provide a more detailed picture of an area and can be useful in identifying any important species that might use or grow within the boundary.

Defining a Boundary

Boundary definition was to be initially based on the principle that the boundary would encompass only the areas that have been identified as being of significance. However, as the initial stages of the pilot project progressed, it was found that the areas of interest did not always fall within definable physical boundaries i.e. fence lines, walls etc. In the more upland areas, half a field comprises a habitat worthy of designating, whilst the other half might be of less significance. The transition between the two is both arbitrary and difficult to map, and subject to change over a short period of time. An example of this problem is shown in figure 1.

Figure 1
The solution to this problem was to map to the nearest definable boundary that enclosed the area of significance, even if sections of lower value are also recorded.

**Recording of the Site**

Initial recording the particular attributes of a site is done on a variety of large-scale paper maps. These maps were used to record field data such as precise SINC boundaries, any extra areas of habitat and physical interest, plus, any evidence that management of the site has occurred.

Digital recording of the selected sites is done using **MAPINFO Professional Version 4.1**, based on the 1:80,000 Ordnance Survey Digital Mapping Service base map. Accuracy when plotting the boundary positions was at the forefront of the recording process. Therefore, the function to display the plotting points used by Ordnance Survey. Figure 2 shows this below.

**Consultation**

Consultation and verification of the plotted sites was undertaken with a variety of appropriate parties. The aim of the consultation process is twofold. Firstly to ensure that all information included on the database for the already plotted sites has been sourced and included. Secondly to identify areas adjacent to existing designation, or sites not previously through surveying with the data held by the Planning Department.
Sites of Importance for Nature Conservation (SINC)

Site Index

Community Council Index

<table>
<thead>
<tr>
<th>Index</th>
<th>Community Council</th>
</tr>
</thead>
<tbody>
<tr>
<td>BR</td>
<td>Brackla</td>
</tr>
<tr>
<td>BDG</td>
<td>Bridgend</td>
</tr>
<tr>
<td>CEC</td>
<td>Cefn Cribwr</td>
</tr>
<tr>
<td>CTH</td>
<td>Coity Higher</td>
</tr>
<tr>
<td>CCH</td>
<td>Coychurch Higher</td>
</tr>
<tr>
<td>CCL</td>
<td>Coychurch Lower</td>
</tr>
<tr>
<td>CYN</td>
<td>Cynffig</td>
</tr>
<tr>
<td>GV</td>
<td>Garw Valley</td>
</tr>
<tr>
<td>LAL</td>
<td>Laleston</td>
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<tr>
<td>LL</td>
<td>Llangynwyd Lower</td>
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</table>

<table>
<thead>
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<th>Index</th>
<th>Community Council</th>
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<tr>
<td>LM</td>
<td>Llangynwyd Middle</td>
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<tr>
<td>MG</td>
<td>Maesteg</td>
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<td>Ogmore Valley</td>
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<td>PEN</td>
<td>Pencoed</td>
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<td>MM</td>
<td>Merthyr Mawr</td>
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<tr>
<td>NH</td>
<td>Newcastle Higher</td>
</tr>
<tr>
<td>POR</td>
<td>Porthcawl</td>
</tr>
<tr>
<td>SBM</td>
<td>St. Brides Minor</td>
</tr>
<tr>
<td>YA</td>
<td>Ynysawdre</td>
</tr>
</tbody>
</table>

- **Size Index**

Every site within each of the Community Councils will receive a numerical index based upon the size of the site. #1 will represent the largest site, and subsequent numbers will represent the relative decrease in the size of the others. For sites that cross over between different boundaries, the Community Council with the greater portion of the site resting within it will be accredited with the SINC.

- **Habitat Description**

Although the browser for the SINC table will contain the definitive guide to what Phase 1 Habitats make up the designation, a shorter guide within the reference number will give an idea of the complexity of the habitats.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>S</td>
<td>Single</td>
</tr>
<tr>
<td>N</td>
<td>Numerous</td>
</tr>
<tr>
<td>M</td>
<td>Mosaic</td>
</tr>
</tbody>
</table>

SINGLE  These are sites that consist of a single habitat classification, for example, a broad-leaved semi-natural woodland.

NUMEROUS These are designations that contain between 2 and 4 different habitat classifications.

MOSAIC  This final category are for SINC designations that contain 5 or greater habitat classifications.

- **Examples**

<table>
<thead>
<tr>
<th>Index</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCH-1-M</td>
<td>Coychurch Higher, largest site - Mosaic (&gt;4 habitats)</td>
</tr>
<tr>
<td>CYN-4-S</td>
<td>Cynffig, 4th largest site - Single habitat</td>
</tr>
<tr>
<td>GV-2-N</td>
<td>Garw Valley – 2nd largest site - Numerous habitats (&lt;4)</td>
</tr>
</tbody>
</table>
### Appendix 1

#### Second-tier Sites of Importance for Nature Conservation (SINC)

<table>
<thead>
<tr>
<th>Reference Number</th>
<th>SINC Name</th>
<th>Area m²</th>
<th>Centre Point Grid Reference</th>
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<td>BDG-1-S</td>
<td>Ewenny Moor</td>
<td>535800</td>
<td>9117 7801</td>
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<td>BDG-5-N</td>
<td>Wildmill Community Park</td>
<td>10670</td>
<td>9029 8078</td>
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<td>BR-1-N</td>
<td>Tremains Wood</td>
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<td>9208 7999</td>
</tr>
<tr>
<td>BR-2-N</td>
<td>Coychurch Road Verge</td>
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<tr>
<td>BR-3-N</td>
<td>Masonic Field</td>
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<td>9189 7944</td>
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<td>CCH-1-N</td>
<td>Hendir-Uchaf</td>
<td>642500</td>
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<td>CCH-2-M</td>
<td>Heol-y-Cyw (east)</td>
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<td>Wern Fawr/Fernbank</td>
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<td>CEC-1-M</td>
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<td>CYN-2-N</td>
<td>North Eastern Dunes</td>
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</table>
CYN-3-N  Old Ballas Wood  143800  8309  8066
CYN-4-N  Sker Farm Dunes  107800  7912  7968
CYN-5-S  Ty Tanglwst Wood  51370  7914  8330
CYN-6-N  St James' Church Wood  48780  8231  8252
CYN-7-N  North of Pyle  37410  8337  8330
CYN-8-S  Sker Rocks/Pink Bay  31650  7914  8330
CYN-9-N  Frog Pond Wood  30310  8405  8190
CYN-10-S  Kenfig NNR Field  22520  7994  8122
CYN-11-N  Eastern Frog Pond Wood  19610  8409  8204
CYN-12-N  Afon Cynffig  8455  8158  8225
GV-1-M  Ffoch Wen Mosaic  555200  9108  9124
GV-2-N  Craig Ddu  270700  8990  9007
GV-3-M  Blaengarw North-East  249900  9075  9347
GV-4-M  Bryngarw Park East  230000  9054  8616
GV-5-N  Cwm Garw  105700  9077  8711
GV-6-M  Nant Mwrth  88820  8926  8623
GV-7-S  North Betws Woodland  78730  9001  8777
GV-8-N  Betws West  69890  8956  8719
GV-9-N  Oakdale Cottage Wood  59780  9085  8760
GV-10-N  Disused Railway Wood  53630  9134  8815
GV-11-S  Moelgilau-fawr  17690  8991  8807
LAL-1-N  Stormy Down  744200  8486  8080
LAL-2-N  Coed-Ty-Maen  141300  8872  8131
LAL-3-N  Laleston Meadows  104100  8793  8064
LAL-4-S  Cae Pen-y-Bryn  92540  8609  8135
LAL-5-N  Craig-y-Parcau  68940  8970  7913
LAL-6-N  Cae-Porth  38710  8707  8102
LAL-7-N  Land South of Laleston School  36320  8725  7955
LAL-8-N  Candidate Site  30920  8645  8172
LAL-9-N  Coed-y-Gains  16150  8929  8147
LL-1-S  Coed Pentwyn  263100  886  864
LL-2-N  Coed Tondu  224900  8873  8513
LL-3-N  Nant Cwm-bach  105200  8794  8484
LL-4-S  Coed Coytrahen  74780  8939  8565
LL-5-N  Cwm Cefnydfa  52770  8800  8670
LM-1-M  Giffach Uchaf  385600  8415  8768
LM-2-M  Gelliheblyg  363900  8790  8994
LM-3-S  Nant Bryncynan Woods  251900  8609  8778
LM-4-N  Waun-y-Giffach Woods  242200  8548  8834
LM-5-N  Llan Road Woods  150700  8538  8913
LM-6-S  Cwm Nant Gwyn  116400  8693  8669
LM-7-N  Drysity'n-y-Waun  103100  8620  8935
LM-8-N  Llety Woods  76320  8786  8890
LM-9-N  Ty'n-y-Waun  73720  8673  8850
LM-10-N  Nant-y-Castell  28280  8443  8847
LM-11-S  Llwyn-y-Brian  13000  8793  8821
MG-1-M  Caerau West  616500  8462  9408
MG-2-M  Caerau North  476600  8511  9499
MG-3-M  Blaen-Cwmdu  373500  8719  9200
MG-4-M  Nant y Crynwydd  278500  8403  9185

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OG-10-M  Glynllan West  11510  9414  8734  
PEN-1-N  Hinwaun Common  1221000  9497  8293  
PEN-2-N  Bryngwenith & Ty-Chwith  404800  9407  8250  
PEN-3-N  Brynau Gwynian  274400  9722  8259  
PEN-4-S  Coed Iestyn  51880  9569  8219  
PEN-5-N  Ewenny River Fields  12900  9588  8034  
POR-1-M  Newton Burrows  384500  8440  7738  
POR-2-M  Locks Common  3428000  8056  7767  
POR-3-M  Pant-y-Hyl  337600  8406  7899  
POR-4-S  Black Rocks  127100  8434  7686  
POR-5-S  Graig Wood  83420  8430  7791  
POR-6-S  The Wilderness  88130  8226  7775  
POR-7-N  Manor Farm Fields  71740  8364  7808  
POR-8-S  Coedargraig  71500  8406  7827  
POR-9-S  Newton Point  71240  8345  7625  
POR-10-S  The Beacons  53250  8450  7913  
POR-11-N  Nottage Court Wood  48600  8206  7849  
POR-12-S  Rhych Point  46430  8277  7642  
POR-13-N  Pwll-y-Waun  44650  8295  7764  
POR-14-M  Grove Common  17390  8262  7945  
POR-15-S  Trafalgar Wood  4571  8168  7753  
POR-16-S  Pink Bay Pond  954  8013  7926  
POR-17-S  Moor Lane Pond  352  8149  7919  
SBM-1-M  Cefn Hirgoed (East)  2276000  9246  8316  
SBM-2-N  Cefn Hirgoed (West)  177200  9086  8329  
SBM-3-N  Pant Farm/Hirwaun Common  103000  9229  8408  
SBM-4-N  Coed Caehelyg  53970  9132  8388  
YA-1-N  Rifle Range Wood  199100  8961  8488  
YA-2-M  Brynmenyn  127700  9043  8497  

**Codes for Community Councils**

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<td>Ynysawdre</td>
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Annex 2

KEY SPECIES IN BRIDGENGEND COUNTY BOROUGH

KEY TO TABLES

Wildlife & Countryside Act: Protected Species
1 Specially protected birds (Schedule 1)
G Bird protected by general provisions of the WCA
G(1) ‘Game Species’: may be taken or killed as game outside the Close Season
G(2) ‘Pest Species’: may be taken or killed under annual licence by authorised persons, by approved means and with landowner’s permission
5 Specially protected animals other than Birds (Schedule 5)
5a Protected animals other than birds
8 Protected Plants (Schedule 8)

UK Red Data Book (RDB) Species
R Species listed as endangered, rare or vulnerable in UK Red Data Books
C Candidate Red Data Bird (Batten et al. 1990)

Nationally Scarce Species (UK National Review series)

UK BAP (Biodiversity Action Plan) Species (UKBG 1998; 1999; UKSG 1995)
P Priority Species
S Species of Conservation Concern

RSPB Birds of Conservation Concern (RSPB et al. 1996)
Red High Conservation Concern (‘Red List’)
Amb Medium Conservation Concern (‘Amber List’)

BTO (British Trust for Ornithology) Alert Species (Crick et al. 1997)
High High Conservation Alert
Med Medium Conservation Alert

BC (Butterfly Conservation) National Action Plan
High High Conservation Priority
Med Medium Conservation Priority

Glamorgan Notable species (Clements & Pryce 2000)
R Rare in Glamorgan
S Scarce in Glamorgan
W Bird which is significant as a wintering species in Glamorgan
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<th>UK BAP Species</th>
<th>Glamorgan Notable Species</th>
<th>Bridgend Notable Species</th>
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<tr>
<td>Sparrow, tree</td>
<td>G</td>
<td>C</td>
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<td>Sparrowhawk</td>
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<td>R</td>
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<tr>
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<td>1</td>
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<tr>
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<tr>
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### Birds

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<th>BTO Alert Species</th>
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<tbody>
<tr>
<td>Whitethroat</td>
<td>G</td>
<td>C</td>
<td>S</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Nesting: reasonably common in the area</td>
</tr>
<tr>
<td>Whitethroat, lesser</td>
<td>G</td>
<td>S</td>
<td>Med</td>
<td>S</td>
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<td></td>
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<td>Nesting: reasonably common in the area</td>
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<tr>
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<td>R</td>
<td>S</td>
<td>Amb</td>
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<td>WINTERING IN LOW NUMBERS, MAINLY OGMORE ESTUARY &amp; KENFIG</td>
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<td>G(1)</td>
<td>S</td>
<td>Amb</td>
<td>High</td>
<td>R</td>
<td></td>
<td></td>
<td>WINTERING IN LOW NUMBERS; MUCH DECLINED AND NO LONGER NESTING</td>
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<td>Woodpecker, great spotted</td>
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<td>Nesting: moderately common in the area</td>
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<td></td>
<td></td>
<td>Nesting: in moderate numbers</td>
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<td>R</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Probably nesting occasionally, in low numbers</td>
</tr>
<tr>
<td>Wren</td>
<td>G</td>
<td>S</td>
<td></td>
<td>Med</td>
<td>S</td>
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<td>Nesting: common in the area</td>
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<tr>
<td>Yellowhammer</td>
<td>G</td>
<td>S</td>
<td>Med</td>
<td>S</td>
<td></td>
<td></td>
<td></td>
<td>Nesting in moderate numbers, but declining</td>
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### Amphibians & Reptiles

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<th>Amphibians</th>
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<th>UK Red Data Book Species</th>
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<th>Glamorgan Notable Species</th>
<th>Bridgend Notable Species</th>
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</thead>
<tbody>
<tr>
<td>Newt, great crested</td>
<td>5</td>
<td>NS</td>
<td>P</td>
<td>S</td>
<td>S</td>
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<td>Scarce in the area</td>
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<tr>
<td>Newt, palmate</td>
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<td>S</td>
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<td>Newt, smooth</td>
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<td>S</td>
<td></td>
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<tr>
<td>Common frog</td>
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<td></td>
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<tr>
<td>Common toad</td>
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<td></td>
<td>S</td>
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<tr>
<td>Adder</td>
<td>5a</td>
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<tr>
<td>Grass snake</td>
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<tr>
<td>Lizard, common</td>
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<td>Slow-worm</td>
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<tr>
<td>Bullhead</td>
<td>S</td>
<td>*</td>
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<tr>
<td>Common marine fish (cod, plaice, sole etc)</td>
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<tr>
<td>Lamprey, brook</td>
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<td>Lamprey, river</td>
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<tr>
<td>Lamprey, sea</td>
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<td>Salmon, Atlantic</td>
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<td>*</td>
<td>Requires confirmation</td>
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<td>Shad, allis</td>
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<td>*</td>
<td>Old records only</td>
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<td>Shad, twaite</td>
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<td>*</td>
<td>Old records only</td>
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<tr>
<td>Shark, basking</td>
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<tr>
<td>Skate, common</td>
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<th>Glamorgan Notable Species</th>
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<tr>
<td>Argynnis adippe</td>
<td>5</td>
<td>R</td>
<td>P</td>
<td>High</td>
<td>R</td>
<td>Rare in the area; three sites; associated with grazed bracken slopes</td>
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<tr>
<td>High brown fritillary</td>
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<td>Argynnis aglaja</td>
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<tr>
<td>Dark green fritillary</td>
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<tr>
<td>Argynnis paphia</td>
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<td>Med</td>
<td>R</td>
<td>Rare in the area; one known site, not recorded recently; associated with semi-natural woodlands</td>
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<tr>
<td>Silver washed fritillary</td>
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<td>Aricia agestis</td>
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<tr>
<td>Brown argus</td>
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<td>Scarcity in the area; about six sites; associated with species-rich calcareous grassland, chiefly near coast</td>
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<tr>
<td>Boloria selene</td>
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<td>S</td>
<td>Scarce in the area; about 15 sites; associated with light-cover bracken slopes &amp; marshy grasslands</td>
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<td>Small pearl-bordered fritillary</td>
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<tr>
<td>Callophrys rubi</td>
<td>S</td>
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<td></td>
<td>Scarcity in the area; four known sites; heathlands, acid grasslands and marshy grasslands</td>
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<tr>
<td>Green hairstreak</td>
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<tr>
<td>Cupido minimus</td>
<td>S</td>
<td>High</td>
<td>S</td>
<td>Rare in the area; three sites; associated with species-rich calcareous grassland, chiefly near coast</td>
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<tr>
<td>Small blue</td>
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### Butterflies

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<th>BC National Action Plan</th>
<th>Glamorgan Notable Species</th>
<th>Bridgend Notable Species</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Erynnis tages Dingy skipper</td>
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<td>Med</td>
<td>S</td>
<td></td>
<td></td>
<td></td>
<td>Scarce in the area; about 5 sites; species-rich calcareous and neutral grasslands</td>
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<tr>
<td>Eurodryas aurinia Marsh fritillary</td>
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<td>NS</td>
<td>P</td>
<td>High</td>
<td>S</td>
<td></td>
<td>Scarce in the area; about 15 sites; associated with species-rich marshy grasslands</td>
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<tr>
<td>Hipparchia semele Grayling</td>
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<td></td>
<td></td>
<td></td>
<td>S</td>
<td></td>
<td>Scarce in the area; about ten known sites; associated with broken ground, screes, quarries etc</td>
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<tr>
<td>Pyrgus malvae Grizzled skipper</td>
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<td></td>
<td></td>
<td>High</td>
<td>R</td>
<td></td>
<td>Rare in the area; three sites; species-rich calcareous and neutral grasslands, often near coast</td>
</tr>
<tr>
<td>Satyrium w-album White-letter hairstreak</td>
<td>NS</td>
<td></td>
<td>Med</td>
<td>S</td>
<td></td>
<td></td>
<td>Rare in the area; one known site, not recorded recently; associated with semi-natural woodlands and hedges with elm</td>
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### Moths

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</thead>
<tbody>
<tr>
<td>Abraxas sylvata Clouded magpie</td>
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### Moths

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<td>Feeds on oak</td>
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<td>Feeds on willow</td>
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### Dragonflies & Damselflies

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<td>Variable damselfly</td>
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<tr>
<td>Recorded from Kenfig in the past, but not recently. Favours overgrown ditches &amp; canals.</td>
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<td>Brachytron pratense</td>
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<td>Hairy dragonfly</td>
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<tr>
<td>Kenfig is the main site in Glamorgan for this early emerging species.</td>
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<td>Ischnura pumilio</td>
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<tr>
<td>Scarce blue-tailed damselfly</td>
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<tr>
<td>More widespread than records suggest; favours small shallow pools with minimal vegetation, such as those on former mine spoil and slag heaps.</td>
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<tr>
<td>Orthetrum coerulescens</td>
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<td>Keeled skimmer</td>
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<tr>
<td>Restricted to acidic sites; possibly under-recorded.</td>
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### Grasshoppers, Crickets & Allies

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<th>Bridgend</th>
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<td>House cricket</td>
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<tr>
<td>Only one recent record in the area; lives in heated buildings</td>
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<td>Chorthippus albomarginatus</td>
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<td>Lesser marsh grasshopper</td>
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<tr>
<td>Only three known sites in the area; marshy habitats</td>
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<tr>
<td><em>Conocephalus dorsalis</em></td>
<td>Short-winged cone-head</td>
<td>Known from two sites in the area; marshy habitats near coast</td>
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<td><em>Forficula lesnei</em></td>
<td>Lesne’s earwig</td>
<td>Only one known site in the area; Kenfig</td>
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<tr>
<td><em>Gryllotalpa gryllotalpa</em></td>
<td>Mole cricket</td>
<td>One recent record in the area, probably an introduction; could occur in the wild, however</td>
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<td><em>Metrioptera brachyptera</em></td>
<td>Bog bush-cricket</td>
<td>One main site (Hirwaun Common); may occur on other heathlands</td>
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<tr>
<td><em>Tetrix ceperoi</em></td>
<td>Cepero’s ground-hopper</td>
<td>Known from two sites in the area; coastal dune-slack habitats</td>
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<tr>
<td><em>Tetrix subulata</em></td>
<td>Slender ground-hopper</td>
<td>Only one confirmed site in the area; marshy habitats</td>
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### Other Insects

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<td>Mainly on cattle &amp; horse grazed pastures; one known recent site in the area near Cornelly</td>
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<td></td>
<td>Wetlands; rich marginal vegetation around lakes; old record at Kenfig</td>
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<tr>
<td><em>Delia flavogrisea</em></td>
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<td>R</td>
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</tr>
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<td><em>Helina parcepilosa</em></td>
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<td><em>Homoneura limnea</em></td>
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<td><em>Pherbellia knutsoni</em></td>
<td></td>
<td>R</td>
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<td>S</td>
<td></td>
<td></td>
<td>Ancient broadleaved woodlands on calcareous soils</td>
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<tr>
<td><em>Raphinium penicillatum</em></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td><em>Rhyasia connexa</em></td>
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</tr>
<tr>
<td><em>Thereva cinifera</em></td>
<td></td>
<td>R</td>
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<td></td>
<td></td>
<td></td>
<td>Recently added to British list</td>
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### Bees & Wasps
<table>
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<tr>
<th><strong>(Hymenoptera)</strong></th>
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</table>
| *Bombus distinguendus*  
Great yellow bumble bee | NS | P | In Glamorgan, coastal dunes; old records only; Kenfig |  |
| *Bombus humilis*  
Brown-banded carder bee |  |  |  |  |  |
| *Bombus sylvarum*  
Shrill carder bee |  | P | Species-rich grasslands |  |
| *Colletes cunicularius*  
Vernal colletes bee | R | S | Sand dunes; old records only; Kenfig |  |
| *Stelis phaeoptera*  
A bee | R |  |  |  |  |

<table>
<thead>
<tr>
<th><strong>Beetles (Coleoptera)</strong></th>
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</table>
| *Dicronychus equiseti*  
A click beetle | R |  |  |  |  |
| *Eurynebria complanata*  
Strandline beetle | NS |  | Beaches, especially along the strandline |  |  |

<table>
<thead>
<tr>
<th><strong>Other Invertebrates</strong></th>
<th>Wildlife &amp; Countryide Act</th>
<th>UK Red Data Book Species</th>
<th>Nationally Scarce Species</th>
<th>UK BAP Species</th>
<th>Glamorgan Notable Species</th>
<th>Bridgend Notable Species</th>
<th>Notes</th>
</tr>
</thead>
</table>
| *Catinella arenaria*  
Sandbowl snail | 5 | P |  |  | Dune slacks; old records only; Kenfig |  |
| *Hirundo medicinalis*  
Medicinal leech | 5 | R | P |  | Prefers unpolluted, stock-grazed ponds; Kenfig |  |
| *Metatrichoniscoides celticus*  
A woodlouse | R | S |  |  | Rocky shores and coastal turf; occasionally in limestone quarries |  |
| *Ostrea edulis*  
Native oyster |  |  | P |  | Offshore maritime sediments |  |
| *Sabellaria alveolata*  
A honeycomb-worm |  |  | S |  | Forms offshore reefs |  |
| *Sabellaria spinulosa*  
A honeycomb worm |  |  |  |  | Forms offshore reefs |  |
## KEY TO TABLES

Wildlife & Countryside Act: Protected Species
- 8 Protected Plants (Schedule 8)
- 8a Plant protected against unauthorised trade or sale

UK Red Data Book (RDB) Species
- R Species listed as endangered, rare or vulnerable in UK Red Data Books

Nationally Scarce Species (UK National Review series)

UK BAP (Biodiversity Action Plan) Species (UKBG 1998; 1999; UKSG 1995)
- P Priority Species
- S Species of Conservation Concern

Glamorgan Notable species (Clements & Pryce 2000)
- R Rare in Glamorgan
- S Scarce in Glamorgan
- E? Extinct in Glamorgan?

<table>
<thead>
<tr>
<th>Vascular Plants</th>
<th>Wildlife &amp; Countryside Act</th>
<th>UK Red Data Book Species</th>
<th>Nationally Scarce Species</th>
<th>UK BAP Species</th>
<th>Glamorgan Notable Species</th>
<th>Bridgend Notable Species</th>
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<td>Agrimonia procera</td>
<td>Wildflower</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Unimproved neutral/acid soils: field edges, grasslands, verges etc</td>
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<tr>
<td>Althea officinalis</td>
<td>Marshmallow</td>
<td></td>
<td>NS</td>
<td>S</td>
<td></td>
<td></td>
<td>Ditch banks, slacks and marshy edges, usually coastal, brackish; Kenfig</td>
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<tr>
<td>Anacamptis pyramidalis</td>
<td>Pyramidal orchid</td>
<td></td>
<td>S</td>
<td></td>
<td></td>
<td></td>
<td>Calcareous grasslands &amp; dunes; Kenfig</td>
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<tr>
<td>Anagallis minima</td>
<td>Chaffweed</td>
<td></td>
<td></td>
<td>R</td>
<td></td>
<td></td>
<td>Damp sandy places, pool margins; Kenfig; not seen since 1974</td>
</tr>
<tr>
<td>Anthricus caucalis</td>
<td>Bur chervil</td>
<td></td>
<td></td>
<td>R</td>
<td></td>
<td></td>
<td>Sandy places near coast &amp; sea cliffs; Kenfig</td>
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<tr>
<td>Apium graveolens</td>
<td>Wild celery</td>
<td></td>
<td></td>
<td>S</td>
<td></td>
<td></td>
<td>Upper saltmarsh zone; Kenfig; old records</td>
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<tr>
<td>Vascular Plants</td>
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<td>Apium inundatum</td>
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<td>Lesser marshwort</td>
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<td>Shallow water, ponds, canals &amp; slacks; Kenfig</td>
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<td>Armeria maritima</td>
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<td>Sandy sea cliff slopes; old records from duneland areas</td>
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<td>Short calcareous grassland and fixed dunes, coastal; Kenfig</td>
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<td>Squinancywort</td>
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<td>Damp verges; Kenfig</td>
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<td>Carum verticillatum&lt;br&gt;Whorled caraway</td>
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<td>Neutral unimproved marshy grasslands and hay meadows</td>
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<td>Centaurea cyanus&lt;br&gt;Cornflower</td>
<td></td>
<td>R</td>
<td>P</td>
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<td>Cornfield weed, occasional on verges and waste ground; old records only</td>
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<td>Centaureum littorale&lt;br&gt;Seaside centaury</td>
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<td>Dunes; Kenfig; some doubt of authenticity</td>
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<td>Cerastium diffusum&lt;br&gt;Sea mouse-ear</td>
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<td>Dunes and sea cliffs on shallow soils</td>
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<td>Cerastium semidecandrum&lt;br&gt;Little mouse-ear</td>
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<td>Calcereous dunes and sea cliffs on shallow soils</td>
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<td>Ceratophyllum demersum&lt;br&gt;Rigid hornwort</td>
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<td>Freshwater ponds, slow waters; Kenfig</td>
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<td>Cirsium dissectum&lt;br&gt;Meadow thistle</td>
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<td>Neutral marshy grasslands, often with basic flushing; bogs, slacks; Kenfig</td>
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<td>Cirsium eriophorum&lt;br&gt;Woolly thistle</td>
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<td>Dune slacks, fens, lake margins; Kenfig</td>
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<td>Shallow calcereous soils near outcrops on coast; Kenfig</td>
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<td>Dactylorhiza incarnata&lt;br&gt;Early marsh-orchid</td>
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<td>Dactylorhiza puplella&lt;br&gt;Northern marsh-orchid</td>
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<td>Dune slacks; Kenfig</td>
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<tr>
<td>Dianthus armeria&lt;br&gt;Deptford pink</td>
<td>8</td>
<td>R</td>
<td>P</td>
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<td>Dry, short, basic grasslands, frequently disturbed, and occasionally dunes; old records only; Merthyr Mawr</td>
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<tr>
<td>Dianthus deltoides&lt;br&gt;Maiden pink</td>
<td></td>
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<td>Sandy grasslands or heath near outcrops; dunes; usually coastal; Kenfig</td>
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<td>Dryopteris aemula&lt;br&gt;Hay-scented buckler-fern</td>
<td></td>
<td>S</td>
<td>R</td>
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<td></td>
<td>Woodlands, in sheltered humid situations; only one site; Cwm Dinbath</td>
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<td>Dryopteris carthusiana&lt;br&gt;Narrow buckler-fern</td>
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<td>Woodlands, in sheltered humid situations</td>
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<td>Dryopteris oreades&lt;br&gt;Mountain male-fern</td>
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<td>North-facing cliffs on Pennant grit in uplands</td>
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<td><em>Eleocharis uniglumis</em></td>
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<td>Dunes slacks, pond margins, near coast; Kenfig</td>
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<td>Marsh helleborine</td>
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<td>Dune slacks; Kenfig</td>
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<td>Green-flowered helleborine</td>
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<td>NS</td>
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<td>Dune slacks; largest population in county borough is at Kenfig</td>
</tr>
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<td>Variegated horsetail</td>
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<td>Calcareous marshes</td>
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<td>Broad-leaved cotton-sedge</td>
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<td><em>Erodium maritimum</em></td>
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<td></td>
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<td>Sea cliffs, shallow soils near coast</td>
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<td>Sea stork's-bill</td>
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<td><em>Euphorbia paralias</em></td>
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<td>Mobile sand dunes, shingle; Kenfig</td>
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<tr>
<td>Sea spurge</td>
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<td><em>Euphorbia portlandica</em></td>
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<td>Spray zone of sea cliffs &amp; dunes; Kenfig</td>
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<td>Portland spurge</td>
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<td><em>Filago minima</em></td>
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<td></td>
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<td>Spoil tips, waste ground, slacks; Kenfig</td>
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<td>Small cudweed</td>
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<td>Upper saltmarsh zone; Merthyr Mawr</td>
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<td>Sea-heath</td>
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<td><em>Galeopsis angustifolia</em></td>
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<td>R</td>
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<td>Field edges, waste ground; disturbed soils; old records only; Kenfig and elsewhere</td>
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<td>Red hemp-nettle</td>
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<td><em>Galium uliginosum</em></td>
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<td></td>
<td></td>
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<td>Marshes &amp; fens; Kenfig</td>
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<tr>
<td>Fen bedstraw</td>
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<td><em>Gastriidium ventricosum</em></td>
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<td>Calcareous sea cliffs; shallow soils</td>
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<td>Nit-grass</td>
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<td><em>Geranium pyrenaicum</em></td>
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<td>Roadsides, hedgebanks, verges, waste ground; Kenfig</td>
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<td>Hedgerow crane's-bill</td>
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<td><em>Glaucium flavum</em></td>
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<td>Shingle beaches; maritime coastal; Kenfig</td>
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<td>Yellow horned-poppy</td>
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<td>Acid dune grassland and dry heaths; Kenfig; old records only</td>
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<td>Ponds, marshes, canals; Kenfig</td>
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<td>Mare's-tail</td>
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<td>Winter annual on dunes and coastal limestone; Kenfig</td>
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<td>Hutchinsia</td>
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<td><em>Hyacinthoides non-scripta</em></td>
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<td>8a</td>
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<td>Bluebell</td>
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<td><em>Hymenophyllum tunbrigense</em></td>
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<td>S</td>
<td>R</td>
<td>Sheltered humid woodlands; one known site only; Cwm Dinbath</td>
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<tr>
<td>Tonbridge filmy-fern</td>
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<td><em>Hymenophyllum wilsonii</em></td>
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<td>Sheltered humid woodlands; one known site only; Cwm Dinbath</td>
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<td>Wilson's filmy-fern</td>
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<td><em>Hyoscyamus niger</em></td>
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<td></td>
<td>Sandy-gravelly places by coast; wasteground; Kenfig</td>
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<td>Henbane</td>
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<td><em>Hypericum montanum</em></td>
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<td>Open woods, cliff scrub, hedgebanks on limestone; old records only; South Cornelly area</td>
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<td>Pale St John’s-wort</td>
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<td><em>Hypochoeris glabra</em></td>
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<td>Disturbed light soils; Kenfig</td>
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<td>Smooth cat’s-ear</td>
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<td>Sea cliffs and saltmarsh; Kenfig; old records only</td>
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<td>Golden-sampire</td>
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<td><em>Isolepis cernua</em></td>
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<td>Sandy soils near coast; Kenfig</td>
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<tr>
<td>Slender club-rush</td>
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<td><em>Juncus acutus</em></td>
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<td>S</td>
<td>Saltmarsh and slacks; Kenfig</td>
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<td>Sharp rush</td>
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<td><em>Juncus maritimus</em></td>
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<td>Calcareous marshy grasslands, slacks; Kenfig</td>
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<td>Sea rush</td>
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<tr>
<td><em>Juncus subnodulosus</em></td>
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<td>Calcareous grasslands and dunes; Kenfig</td>
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<td>Blunt-flowered rush</td>
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<td><em>Koeleria macrantha</em></td>
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<td>Calcareous grasslands and dunes; Kenfig</td>
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<td>Crested hair-grass</td>
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<td><em>Limonium binervosum</em></td>
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<td>Maritime habitats; Kenfig</td>
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<td>Rock sea-lavender</td>
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<tr>
<td><em>Limosella aquatica</em></td>
<td></td>
<td>NS</td>
<td>R</td>
<td>Exposed mud at waterside, often non-basic; old record from Kenfig Pool</td>
<td></td>
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<tr>
<td>Mudwort</td>
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<tr>
<td><em>Limosella australis</em></td>
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<td>8</td>
<td>R</td>
<td>Exposed mud at waterside; Kenfig Pool; old records only</td>
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<tr>
<td>Welsh mudwort</td>
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<td><em>Linum bienne</em></td>
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<td>Calcareous grassland by coast; Kenfig</td>
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<td>Pale flax</td>
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<td>Liparis loeselii ovata</td>
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<td>R</td>
<td>P</td>
<td>R</td>
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<td>Dune slacks; Kenfig; internationally significant population</td>
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<td>Fen orchid</td>
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<td>Lithospermum purpureoaeruleum</td>
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<td>Old records from amongst coastal scrub on limestone</td>
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<td>Purple gromwell</td>
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<td>Littorella uniflora</td>
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<td>Waterside situations, marshes; Kenfig</td>
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<td>Shoreweed</td>
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<td>Malva neglecta</td>
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<td>Verges, wastground, drift lines; Kenfig</td>
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<td>Dwarf mallow</td>
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<td>Marrubium vulgare</td>
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<td>Open, disturbed calcareous soils; Kenfig and elsewhere near coast</td>
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<td>White horehound</td>
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<td>Matthiola sinuata</td>
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<td>Dunes; Kenfig</td>
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<td>Sea stock</td>
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<td>Mentha pulegium</td>
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<td>R</td>
<td>P</td>
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<td>Wet sand, slacks, damp grassy heaths; old records only; Kenfig, but probably in error</td>
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<td>Pennyroyal</td>
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<td>Menyanthes trifoliata</td>
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<td>Marsh, swamp and bog, often calcifuge; Kenfig</td>
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<td>Bog-bean</td>
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<td>Moenchia erecta</td>
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<td>Dunes, shallow soils by coast; Kenfig</td>
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<td>Upright chickweed</td>
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<td>Monotropa hypopitys</td>
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<td>Dune slacks; Kenfig</td>
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<td>Bird’s-nest</td>
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<td>Myosoton aquaticum</td>
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<td>Waters edge, marshes; Kenfig</td>
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<td>Water chickweed</td>
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<td>Myrica gale</td>
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<td>Bog, wet heathland</td>
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<td>Bog myrtle</td>
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<td>Myriophyllum spicatum</td>
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<td>Ponds, canals, ditches; Kenfig</td>
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<td>Spiked water-millefoil</td>
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<td>Oenanthe fistulosa</td>
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<td>Streamsides and marshes; Kenfig</td>
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<td>Tubular water-dropwort</td>
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<td>Oenanthe lachenali</td>
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<td>Upper saltmarsh zone; Kenfig</td>
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<td>Parsley water-dropwort</td>
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<td>Ononis spinosa</td>
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<td>Verges and field banks; Kenfig</td>
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<td>Spiny restharrow</td>
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<td>Ophrys apifera</td>
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<td>Calcareous grasslands, dunes; Kenfig</td>
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<td>Bee orchid</td>
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<td>Bridgend Notable Species</td>
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<td>Orchis morio</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Calcareaous grassland, usually coastal; sea cliffs, dunes</td>
</tr>
<tr>
<td>Green-winged orchid</td>
<td></td>
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<td>Ornithopus purpureus</td>
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<td></td>
<td></td>
<td>Short turf on dunes; Kenfig</td>
</tr>
<tr>
<td>Bird's-foot</td>
<td></td>
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<td>Osmunda regalis</td>
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<td>Damp heathland, acid-neutral marshy grassland</td>
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<tr>
<td>Royal fern</td>
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<td>Paris quadrifolia</td>
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<td>Calcareous woodland</td>
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<tr>
<td>Herb paris</td>
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<td>Pedicularis palustris</td>
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<td></td>
<td></td>
<td>Calcareous marsh and dune slacks</td>
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<tr>
<td>Marsh lousewort</td>
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<td>Platanthera chlorantha</td>
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<td>Calcareous woodlands</td>
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<tr>
<td>Greater butterfly-orchid</td>
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<td>Polygonum oxyspermum Raii</td>
<td></td>
<td></td>
<td>R</td>
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<td></td>
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<td>Sandy shingle near drift line; Kenfig</td>
</tr>
<tr>
<td>Ray's knotweed</td>
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<td>Potamogeton berchtoldii</td>
<td></td>
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<td>S</td>
<td></td>
<td></td>
<td></td>
<td>Pond and ditches; Kenfig</td>
</tr>
<tr>
<td>Small pondweed</td>
<td></td>
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<td>Potamogeton gramineus</td>
<td></td>
<td></td>
<td>R</td>
<td></td>
<td></td>
<td></td>
<td>Pools, usually near coast; Kenfig</td>
</tr>
<tr>
<td>Various-leaved pondweed</td>
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<td>Potamogeton lucens</td>
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<td></td>
<td>R</td>
<td></td>
<td></td>
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<td>Pools; Kenfig</td>
</tr>
<tr>
<td>Shining pondweed</td>
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<td>Potamogeton perfoliatus</td>
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<td>Canals and pools; Kenfig</td>
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<tr>
<td>Perfoliate pondweed</td>
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<td>Potamogeton pusillus</td>
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<td></td>
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<td>Lakes, canals; Kenfig</td>
</tr>
<tr>
<td>Lesser pondweed</td>
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<td>Potamogeton trichoides</td>
<td></td>
<td></td>
<td>NS</td>
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<td></td>
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<td>Dune pools and slacks; Kenfig</td>
</tr>
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<td>Hairlike pondweed</td>
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<td>Potentilla palustris</td>
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<td></td>
<td></td>
<td></td>
<td>Marshy grassland, bogs; Kenfig</td>
</tr>
<tr>
<td>Marsh cinquefoil</td>
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<td>Primula vulgaris</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Calcareous-neutral grasslands, verges, woodlands, open scrub; quite common in the county borough</td>
</tr>
<tr>
<td>Primrose</td>
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<td>Pyrola rotundifolia</td>
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<td>NS</td>
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<td>Dune slacks; Kenfig</td>
</tr>
<tr>
<td>Round-leaved wintergreen</td>
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<td>Radiola linoides</td>
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<td></td>
<td></td>
<td></td>
<td>Damp, open heath, acid dunes; Kenfig</td>
</tr>
<tr>
<td>Allseed</td>
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<td>Ranunculus aquatilis</td>
<td></td>
<td></td>
<td>S</td>
<td>R</td>
<td></td>
<td></td>
<td>Streams and ponds; Kenfig</td>
</tr>
<tr>
<td>Vascular Plants</td>
<td>Wildlife &amp; Countryside Act</td>
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<td>Nationally Scarce Species</td>
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<td>Glamorgan Notable Species</td>
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</tr>
<tr>
<td>Common water-crowfoot</td>
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<td><em>Ranunculus auricomus</em></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Calcareous woodlands</td>
</tr>
<tr>
<td>Goldilocks buttercup</td>
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<td><em>Ranunculus baudotii</em></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Brackish pools and ditches near coast; Kenfig</td>
</tr>
<tr>
<td>Brackish water-crowfoot</td>
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<td><em>Ranunculus circinatus</em></td>
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<td></td>
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<td>Pools; Kenfig Pool is the only known recent site</td>
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<tr>
<td>Fan-leaved water-crowfoot</td>
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<tr>
<td><em>Ranunculus hederaceus</em></td>
<td></td>
<td>S R</td>
<td></td>
<td></td>
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<td>Open mud and shallow water</td>
</tr>
<tr>
<td>Ivy-leaved water-crowfoot</td>
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<td><em>Ranunculus lingua</em></td>
<td></td>
<td>S</td>
<td></td>
<td></td>
<td></td>
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<td>Emergent vegetation in pools; Kenfig</td>
</tr>
<tr>
<td>Great spearwort</td>
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<td><em>Ranunculus omiophyllus</em></td>
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<td>S</td>
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<td></td>
<td></td>
<td>Open mud and shallow water</td>
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<tr>
<td>Round-leaved water-crowfoot</td>
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<td><em>Ranunculus parviflorus</em></td>
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<td></td>
<td></td>
<td></td>
<td>Shallow soils near coast; sea cliffs</td>
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<tr>
<td>Small-flowered buttercup</td>
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<tr>
<td><em>Ranunculus trichophyllos</em></td>
<td></td>
<td>S R</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Shallow ponds and ditches, usually near coast; Kenfig; the only known site</td>
</tr>
<tr>
<td>Thread-leaved water-crowfoot</td>
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<td><em>Rhynchospora alba</em></td>
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<td>R</td>
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<td></td>
<td></td>
<td></td>
<td>Wet peaty moorland</td>
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<tr>
<td>White beak-sedge</td>
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<tr>
<td><em>Rorippa islandica</em></td>
<td></td>
<td>R</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Damp disturbed ground which is wet in winter</td>
</tr>
<tr>
<td>Northern yellow-cress</td>
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<td><em>Rosa pimpinellifolia</em></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Dunes and limestone cliffs near sea; Kenfig</td>
</tr>
<tr>
<td>Burnet rose</td>
<td></td>
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<tr>
<td><em>Rumex hydralopathum</em></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Edges of ponds and ditches; Kenfig</td>
</tr>
<tr>
<td>Water dock</td>
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<td><em>Rumex rupestris</em></td>
<td></td>
<td>8 R</td>
<td>8</td>
<td>P R</td>
<td></td>
<td></td>
<td>Lower sea cliffs, standline etc; old records; Kenfig &amp; Merthyr Mawr; may still occur in suitable habitats</td>
</tr>
<tr>
<td>Shore dock</td>
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<td><em>Salvia pratensis</em></td>
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<td>8</td>
<td>NS</td>
<td>S R/E?</td>
<td></td>
<td></td>
<td>Field edges; old record from Merthyr Mawr</td>
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<tr>
<td>Meadow clary</td>
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<td><em>Samolus valerandi</em></td>
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<td></td>
<td></td>
<td>Brackish marshes and ditches by sea ; Kenfig</td>
</tr>
<tr>
<td>Brookweed</td>
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<tr>
<td><em>Scandix pecten-veneris</em></td>
<td></td>
<td>NS</td>
<td>P</td>
<td>R</td>
<td></td>
<td></td>
<td>Field edges, sea cliffs; old records only</td>
</tr>
<tr>
<td>Shepherd’s-needle</td>
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<td><em>Schoenoplectus tabernaemontani</em></td>
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<td>Ponds, marshes, usually by sea; Kenfig</td>
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<td>Wildlife &amp; Countryside Act</td>
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<td>Nationally Scarce Species</td>
<td>UK BAP Species</td>
<td>Glamorgan Notable Species</td>
<td>Bridgend Notable Species</td>
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<tr>
<td>Grey club-rush</td>
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<td>Scorzoneria humilis</td>
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<td>8</td>
<td>R</td>
<td>S</td>
<td>R</td>
<td></td>
<td>Damp unimproved lowland grasslands; Cefn Cribwr</td>
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<tr>
<td>Viper’s-grass</td>
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<tr>
<td>Silene gallica</td>
<td>NS</td>
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<td>P</td>
<td>R</td>
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<td>Field edges, wasteground, sea cliffs; old records only</td>
</tr>
<tr>
<td>Small-flowered catchfly</td>
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<td>Spiralanes spiralis</td>
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<td>S</td>
<td></td>
<td></td>
<td>Calcareous sea cliffs, coastal grasslands and dunes; Kenfig</td>
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<tr>
<td>Autumn lady's-tresses</td>
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<td>Spirodela polyrhiza</td>
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<td>Pools, ditches etc; Kenfig; old records only</td>
</tr>
<tr>
<td>Greater duckweed</td>
<td>R</td>
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<td></td>
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<td>Stellaria palida</td>
<td>R</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Dunes and shallow soils on sea cliffs; Kenfig</td>
</tr>
<tr>
<td>Lesser chickweed</td>
<td>R</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Thalictrum minus</td>
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<td></td>
<td>R</td>
<td></td>
<td>Limestone cliffs by sea; Kenfig</td>
</tr>
<tr>
<td>Lesser meadow-rue</td>
<td></td>
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<td></td>
<td>R</td>
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<tr>
<td>Thelypteris palustris</td>
<td></td>
<td>NS</td>
<td></td>
<td>R</td>
<td>R</td>
<td></td>
<td>Reedswamp, peaty mires, basic mires; probably extinct</td>
</tr>
<tr>
<td>Marsh fern</td>
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<td>Trichomanes speciosum</td>
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<td>8</td>
<td>R</td>
<td>P</td>
<td>R</td>
<td></td>
<td>Sheltered, humid sites, on wet cliffs; one known site only; Cwm Dinbath</td>
</tr>
<tr>
<td>Killarney fern</td>
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<td>Trifolium fragiferum</td>
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<td></td>
<td>Dune slacks, saltmarsh, verges near coast; Kenfig</td>
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<tr>
<td>Strawberry clover</td>
<td>R</td>
<td></td>
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<td></td>
<td>R</td>
<td></td>
<td>Dry open grassland, coastal; Kenfig</td>
</tr>
<tr>
<td>Trifolium onithopodioides</td>
<td>R</td>
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<td>Bird’s-foot clover</td>
<td>R</td>
<td></td>
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<td></td>
<td>R</td>
<td></td>
<td>Shalloe soils on sea cliffs; Kenfig</td>
</tr>
<tr>
<td>Trifolium subterraneum</td>
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<td></td>
<td></td>
<td>R</td>
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<tr>
<td>Subterranean clover</td>
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<tr>
<td>Triglochin maritima</td>
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<td></td>
<td></td>
<td>Saltmarsh; Kenfig</td>
</tr>
<tr>
<td>Sea arrow-grass</td>
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<td>Triglochin palustris</td>
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<td></td>
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<td></td>
<td></td>
<td>Marhes, often near coast; Kenfig</td>
</tr>
<tr>
<td>Marsh arrow-grass</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Ulex gallii</td>
<td>S</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Acid grasslands, heathlands; moderately common in the area</td>
</tr>
<tr>
<td>Western gorse</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Vaccinium oxycoccus</td>
<td></td>
<td>S</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Wet heaths and bogs, uplands</td>
</tr>
<tr>
<td>Cranberry</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Valerianella dentata</td>
<td>S</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Old records only; wasteground, field edges; Kenfig</td>
</tr>
<tr>
<td>Narrow-fruit ed cornsalad</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Valerianella rimosa</td>
<td>R</td>
<td>8</td>
<td>P</td>
<td>S</td>
<td></td>
<td></td>
<td>Old record; wasteground, field edges; Bridgend/Cowbridge area</td>
</tr>
</tbody>
</table>
### Vascular Plants

<table>
<thead>
<tr>
<th>Species</th>
<th>Wildlife &amp; Countryside Act</th>
<th>UK Red Data Book Species</th>
<th>Nationally Scarce Species</th>
<th>UK BAP Species</th>
<th>Glamorgan Notable Species</th>
<th>Breidgend Notable Species</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Veronica anagalis-aquatica</td>
<td>R</td>
<td>S</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Streams, ditches, slacks; Kenfig</td>
</tr>
<tr>
<td>Blue water-speedwell</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Veronica catenata</td>
<td></td>
<td>S</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Calcareous streams and marshes; Kenfig</td>
</tr>
<tr>
<td>Pink water-speedwell</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Vicia lathyroides</td>
<td></td>
<td>S</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Fixed, dry dunes; Kenfig</td>
</tr>
<tr>
<td>Spring vetch</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>Viola tricolor</td>
<td></td>
<td>S</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Field edges, wasteground; or dunes (spp curtisi); Kenfig</td>
</tr>
<tr>
<td>Wild pansy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Vulpia fasciculata</td>
<td>NS</td>
<td>S</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Dunes; Kenfig &amp; Merthyr Mawr</td>
</tr>
<tr>
<td>Dune fescue</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Zannichellia palustris</td>
<td></td>
<td>S</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Brackish ditches, saltmarsh; Kenfig</td>
</tr>
<tr>
<td>Horned pondweed</td>
<td></td>
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</tbody>
</table>

### Liverworts & Mosses

<table>
<thead>
<tr>
<th>Species</th>
<th>Wildlife &amp; Countryside Act</th>
<th>UK Red Data Book Species</th>
<th>Nationally Scarce Species</th>
<th>UK BAP Species</th>
<th>Glamorgan Notable Species</th>
<th>Breidgend Notable Species</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Liverworts</td>
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<tr>
<td>Petalophyllum ralfsii</td>
<td>8</td>
<td>R</td>
<td>P</td>
<td></td>
<td></td>
<td></td>
<td>Dune slacks; Kenfig; declining in numbers</td>
</tr>
<tr>
<td>Drepanoclados sendtneri</td>
<td>NS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Dune slacks; Kenfig</td>
</tr>
<tr>
<td>Lichens</td>
<td>Wildlife &amp; Countryside Act</td>
<td>UK Red Data Book Species</td>
<td>Nationally Scarce Species</td>
<td>UK BAP Species</td>
<td>Glamorgan Notable Species</td>
<td>Bridgend Notable Species</td>
<td>Notes</td>
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</tbody>
</table>
| *Bacidia incompta*  
A lichen | R                          | P                        |                            |                |                          |                          | On mature trees, often elm; old records from the Bridgend area, but not recorded recently and may now be lost.                        |
| *Endocarpon pusillum*  
A lichen | R                          |                          |                            |                |                          |                          | Compacted calcareous soils, including in railway cuttings                                                                        |

<table>
<thead>
<tr>
<th>Fungi</th>
<th>Wildlife &amp; Countryside Act</th>
<th>UK Red Data Book Species</th>
<th>Nationally Scarce Species</th>
<th>UK BAP Species</th>
<th>Glamorgan Notable Species</th>
<th>Bridgend Notable Species</th>
<th>Notes</th>
</tr>
</thead>
</table>
| *Coprinus ammophilae*  
Marram ink-cap | R                          |                          |                            |                |                          |                          |                                                                     |
| *Physarum psittacinum*  
A slime-mould | R                          |                          |                            |                |                          |                          |                                                                     |
| *Poronia punctata*  
Nail-fungus | R                          | P                        |                            |                |                          |                          | Old records only                                                      |
| *Suillus tridentinus*  
A bolete fungus | NS                         |                          |                            |                |                          |                          | Parc Slip                                                            |
| *Spathalaria flavida*  
A fungus | NS                         |                          |                            |                |                          |                          | Larch plantation at Parc Slip                                         |
## Current Biodiversity Initiatives in Bridgend County Borough

*From: Bridgend County Borough Integrated Action Programme Review 2001*

<table>
<thead>
<tr>
<th>No.</th>
<th>Projects</th>
<th>Partner(s)</th>
<th>Timetable</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MANAGEMENT OF KENFIG NATIONAL NATURE RESERVE (KNNR)</strong></td>
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</tr>
<tr>
<td>NC1</td>
<td>Carry out practical habitat and species management at KNNR. (c.f. NC01)</td>
<td>Kenfig Trust, CCW, BCBC-Planning, BTCV.</td>
<td>On-going.</td>
<td>Further details from the KNNR Reserve Centre. This includes:- 1. Management of 30 hectares of dune grassland to increase diversity by carrying out scrub clearance and mowing. 2. Management of 20 hectares of humid dune slack to benefit the fen orchid and associated plants and invertebrates.</td>
</tr>
<tr>
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<tr>
<td>NC3</td>
<td>Provide an education and information service based at KNNR Reserve Centre. (c.f.EAE03,6)</td>
<td>BCBC - Planning, CCW, Education Business Partnership, Volunteers, National Watch Club</td>
<td>On-going</td>
<td>Includes:- 1. Running school visits and guided walks. 2. Inputting to industry training days held at schools 3. Providing a summer holiday scheme. 4. Holding an annual ‘Open Day’ (held in July / August). 5. Running a children’s Watch club once a month</td>
</tr>
<tr>
<td>NC4</td>
<td>Enhance public access and enjoyment of KNNR (c.f.AR02,3,4,5,7)</td>
<td>BCBC-Planning, CCW, GB, Pencoed College</td>
<td>On-going</td>
<td>The ‘mini-nature reserve’ project is completed and provides access for the less abled. Tape-recorded interpretative material has being produced for the visually disabled (part of this Authority’s ‘Best Value’ pilot project). GB’s Bridleway and Access Study has been completed and identifies equestrian access problems and opportunities throughout the county borough, including Kenfig NNR.</td>
</tr>
<tr>
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<tr>
<td>NC5</td>
<td>Management of Craig-y-Parcau LNR. (c.f.NC01)</td>
<td>BCBC-Planning, CCW, BTCV</td>
<td>On-going</td>
<td>‘Management Plan’ currently being updated. On-going management works being carried out Risk assessment of the site carried out 1999. In 1999 the 3rd instalment of Woodland Grant Scheme funding was received for this site (approximately £150).</td>
</tr>
<tr>
<td>NC6</td>
<td>Management of Frog Pond Wood LNR (c.f.NC01)</td>
<td>BCBC-Planning, CCW, Pencoed College, BTCV</td>
<td>On-going</td>
<td>‘Management Plan’ currently being updated. On-going management works being carried out Risk assessment of the site carried out 1999. Woodland grant scheme funding has permitted coppicing in the woodland to encourage ash regeneration. Work undertaken by BTCV. Pencoed College students and staff have undertaken pond management, which is on-going. KNNR staff have provided an ‘outreach function’ at Village Farm Meadow, by way of mowing and felling work.</td>
</tr>
<tr>
<td>NC7</td>
<td>Declare and establish new LNRs. (c.f.NC016)</td>
<td>BCBC-Planning, CCW</td>
<td>On-going</td>
<td>Lock’s Common and Newton Burrows (both in Porthcawl) are currently being put forward as potential LNRs, and draft management plans are in preparation. This also forms part of Kenfig NNR’s outreach function. BCBC-Planning have produced a Strategy for the Development of LNRs in the County Borough. Staff from KNNR will carry out an ‘outreach function’ role at Locks Common and Newton Burrows.</td>
</tr>
<tr>
<td>NC8</td>
<td>Establish a Marine Nature Reserve at Sker Point. (c.f.NC016)</td>
<td>Marine Conservation Society, CCW, University of Wales College Cardiff, Cardiff Bay Diving Club, BCBC Planning</td>
<td>2001- On-going</td>
<td>Discussions have taken place to progress this project. Initial work will be concerned with defining the broad habitat types.</td>
</tr>
<tr>
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<tr>
<td>NC9</td>
<td>Support the establishment of a local 'Biological Records Centre'</td>
<td>BCBC-Planning GWT, CCW, National Biodiversity Network.</td>
<td></td>
<td>Heritage Lottery Bid by NBN Consortium.</td>
</tr>
<tr>
<td>NC10</td>
<td>Work towards the production of a Geographical Information System (or GIS) which will contain detailed biological records and other environmental data. (c.f.NC01, LCE01)</td>
<td>BCBC-Planning, CCW, GWT, other key partners and consultees, EAW.</td>
<td>On-going</td>
<td>The Authority is progressing with a GIS based on Map Info. It is the intention to build up layers of data on archaeology, nature conservation and landscape to inform land-use policy development. Elements of this will be developed through Landmap process (also see paragraph 9.4.1 of Countryside Strategy).</td>
</tr>
<tr>
<td>NC11</td>
<td>Support the work of the voluntary recording community.</td>
<td>BCBC Planning, GMRG, GBC, BDS, BSBI, BTO.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NC12</td>
<td>Development of Model Planning Conditions for nature conservation.</td>
<td>BCBC-Planning, all key partners.</td>
<td>On-going</td>
<td></td>
</tr>
<tr>
<td>NC13</td>
<td>Develop policies and proposals to increase the nature conservation interest of land in Council ownership. (c.f.NC01)</td>
<td>BCBC- all directorates</td>
<td>Initiate in 1998</td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Projects</td>
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</table>
| NC14 | Carry out work related to the UK Biodiversity Action Plan. (c.f.NC01) | Members of ‘GBAG’ | On-going | This currently includes:  
- The preparation of a number of species and habitat action plans for short and middle list priorities and those species and habitats that are locally important.  
- Support for Butterfly Conservation’s Regional Action Plan for Wales and the implementation of an action plan for Lepidoptera in Bridgend.  
- EAW otter survey throughout the Ogmore catchment area, which has identified suitable habitats for key BAP species. This work is on-going and currently being progressed through the Wildlife Trust’s Otter and Rivers Project.  
- This project can be cross-referenced to Issue NE/10 of the LEAP. Also EAW are committed to working closely with partners of GBAG as highlighted in the LEAP, Page 7 under Biodiversity Action Plans. |
<p>| NC15 | Support the work of the ‘Glamorgan Heritage Coast Project’ (c.f.NC01) | BCBC-Planning, VGC | On-going | |
| NC16 | Support the work of the Coed Cymru Woodland Project. (c.f.NC01,9) | BCBC-Planning | On-going | This includes both BCBC sites and those in private ownership. |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>NC17</td>
<td>Management of Coed Iestyn Woodland. (c.f.NC01.9)</td>
<td>GWT, Mid Glamorgan Probation Service, Pencoed College, Pencoed Town Council</td>
<td>On-going</td>
<td>The management is based on a partnership agreement, which Pencoed College uses for practical education work. The Probation Service also undertake practical works.</td>
</tr>
<tr>
<td>NC19</td>
<td>Woodland Project Pencoed. (c.f.NC01,9)</td>
<td>Dunraven Estate, Pencoed College, Pencoed Town Council</td>
<td>On-going</td>
<td>This project has received Millennium funding through Dunraven Estates. Millennium funding through Dunraven Estate has also been agreed in principle for a nature Reserve feature at Heol-y-Cyw (see EAE3)</td>
</tr>
<tr>
<td>NC21</td>
<td>Support local agri-environment schemes. (c.f.NC011)</td>
<td>BCBC-Planning, CCW, WO</td>
<td>On-going</td>
<td>KNNR staff are currently giving advice and support to the Sker Farm Habitat Scheme e.g. ragwort control.</td>
</tr>
<tr>
<td>NC22</td>
<td>GWT Nature Reserve Management Plan Strategy. (c.f.NC01)</td>
<td>GWT</td>
<td>1999-on-going</td>
<td>Outlines the on-going progress of nature reserves in the old Glamorgan area that come under the control of GWT.</td>
</tr>
<tr>
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<tr>
<td>NC23</td>
<td>Development and production of a ‘Coastal Zone Management Plan’ for the County Borough (c.f. NC04, LCE01, ELM09)</td>
<td>BCBC-Planning, CCW and key partners.</td>
<td></td>
<td>The Authority supports ‘Arfordir’, a grouping of local authority officers involved in the Coastal Zone Management. Support is also provided to ‘Green Sea Initiative’. This is a joint venture involving more than 30 organisations to protect and improve the marine environment around Wales.</td>
</tr>
<tr>
<td>NC24</td>
<td>Investigate the opportunities for setting up a countryside management service. (c.f. all NC0s,)</td>
<td>All key partners</td>
<td>On-going</td>
<td>This would involve the coming together of all countryside agencies operating in the County Borough and developing a system by where resources and information could be shared. This could also provide a focus for on-going management and maintenance of sites.</td>
</tr>
<tr>
<td>NC25</td>
<td>Carry out improvements to river corridors. (c.f. NC012, LCE02,5, AR06, EAE03)</td>
<td>BCBC-Planning, EAW, Keep Wales Tidy, Otters and Rivers Project Wales</td>
<td>On-going</td>
<td>These include litter clearance, access improvements and habitat creation. EAW have created wetlands at Waterton and tree management along river corridors. The Clean Rivers Project (part of Keep Wales Tidy), work in partnership with local organisations and residents to achieve improvements to the River Ogmore. See Neath, Port Talbot and Bridgend LEAP issue NE/13, produced by the Environment Agency Wales. This considers the merits of considering the designation of ‘buffer zones’ along river corridors.</td>
</tr>
<tr>
<td>NC26</td>
<td>Develop a Strategy to protect and manage the Ogmore River Estuary. (c.f. NC04,12)</td>
<td>BCBC-Planning, BTO, EAW, JNCC, CCW, VGC</td>
<td></td>
<td>Will include the collation of nature conservation data and the examination of threats and opportunities.</td>
</tr>
<tr>
<td>No.</td>
<td>Projects</td>
<td>Partner(s)</td>
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<tr>
<td>NC27</td>
<td>Develop a strategy for the selection and management of road verges of biodiversity interest. (c.f.NC01)</td>
<td>BCBC-Planning, GWT, Education and Leisure</td>
<td>On-going</td>
<td>This project seeks to enhance the biodiversity of the roadside verges of the County Borough.</td>
</tr>
<tr>
<td>NC28</td>
<td>Provide a nature conservation input into land reclamation schemes. (c.f.NC01,5)</td>
<td>BCBC-Planning, WDA, FA</td>
<td>On-going</td>
<td>See ‘Landscapes Working for Bridgend County Borough’. Also see Ogmore Catchment Management Plan and Local Environment Agency Plan for Neath Port Talbot and Bridgend (produced by the Environment Agency)</td>
</tr>
<tr>
<td>NC29</td>
<td>Develop policies for the management and control of invasive plants and weed species. (c.f.NC01)</td>
<td>BCBC-Planning, EAW, FA, BHS</td>
<td>On-going</td>
<td>These plants include Japanese Knotweed, Sea Buckthorn, Rhododendron, and Himalayan Balsam and ragwort. EAW provides advice and have prepared publications on the control of Japanese knotweed and Himalayan Balsam. This forms part of EAW's contribution to a co-ordinated approach to the control of these species &quot;and links with Issue NE/12 of the LEAP Action Plan. BHS operate an annual 'Ragwort Pulling Week'.</td>
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<tr>
<td>NC30</td>
<td>Draw up a list of ‘Sites of Importance for Nature Conservation’ (or SINC). (c.f. NC03)</td>
<td>BCBC-Planning, GWT</td>
<td>On-going</td>
<td>A completed list is held on GIS along with associated ecological information. The database is constantly being reviewed and update on both a regular basis, and as and when new information comes to light.</td>
</tr>
<tr>
<td>NC31</td>
<td>Support nature conservation fora and working-groups. (c.f. all NCOs).</td>
<td></td>
<td>On-going</td>
<td>Support and input is currently being provided to the ‘Glamorgan Biodiversity Advisory Group’.</td>
</tr>
<tr>
<td>NC32</td>
<td>Support pollution control initiatives. (c.f. NCO1)</td>
<td>BCBC-Planning, EAW</td>
<td>On-going</td>
<td>Two oil booming sites were validated in 1999. These two points would completely protect the estuary in the event of an accident. Relevant LEAP issues that relate to pollution prevention are NE/23, NE/24, NE/26, NE/27, NE/31, NE/34, NE/35 and NE/36.</td>
</tr>
<tr>
<td>NC33</td>
<td>Support the ‘Trees of Time and Place’ Initiative. (c.f. NC01)</td>
<td>Various</td>
<td>On-going</td>
<td>An initiative aimed at growing trees from seed. GB continues to support the Rockwool Tree Nursery Initiative, which collects local indigenous seed and growing it on prior to planting on local projects</td>
</tr>
<tr>
<td>NC34</td>
<td>Support for community based projects to protect species of local interest including birds of prey (c.f. NCO1)</td>
<td>BCBC-Planning, EAW, Police Wildlife Liaison Officer, RSPB.</td>
<td>On-going</td>
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<tr>
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<tr>
<td>NC35</td>
<td>Pond management project at Royal Porthcawl Golf Club. (c.f.NC01,14)</td>
<td>BCBC-Planning, Royal Porthcawl Golf Club</td>
<td>1999-on-going</td>
<td>This has involved partial reedmace removal and providing advice on future management of the pond and other areas of nature conservation on the golf course. In 1998 Royal Porthcawl Club received an award from the British and International Golf Green Association in recognition of its work to improve the nature conservation interest of the site.</td>
</tr>
<tr>
<td>NC36</td>
<td>Pond Survey for Bridgend County Borough</td>
<td>NMGW, EAW, BCBC Planning</td>
<td>2001-2002</td>
<td>Work has commenced on this project, which is being jointly funded by the three partners.</td>
</tr>
</tbody>
</table>