Countryside Recreation Research Advisory Group

COUNTRYSIDE RECREATION RESEARCH 1985/86: THE PROGRAMMES OF THE CRRAG AGENCIES

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PREFACE

In 1982, The Countryside Recreation Research Advisory Group decided to publish an annual compilation of the current and prospective research programmes of agencies represented on the Group (see list of member agencies below), so that more information about this work could reach a wider audience of interested organisations. The first edition of the compilation appeared in June 1982. This publication is the fourth in this series and contains information on countryside recreation research and recent publications, correct as at the end of March, 1985.

In content and inevitable limitations, the document closely resembles previous editions. As with the 1984/85 edition, a thematic index has been included. Each project has been allocated a code which relates it to the relevant agency programme and appears both in the main text and at the appropriate point in the index.

Although considerable effort has been made to edit agencies' research programmes as originally submitted into a common format, the result does not disguise the varied nature of the individual programmes nor the differing extents to which the programmes have a bearing on countryside recreation as strictly defined. A range of choice has been exercised by each contributor in the cut-off between that judged to be relevant to CRRAG and that not, with some lists more tightly drawn than others. The register only includes the research programmes of member agencies. It is planned to include the research undertaken by two of the Local Authority Associations each year: this year the research programmes of the Association of County Councils and the Association of Metropolitan Authorities are described.

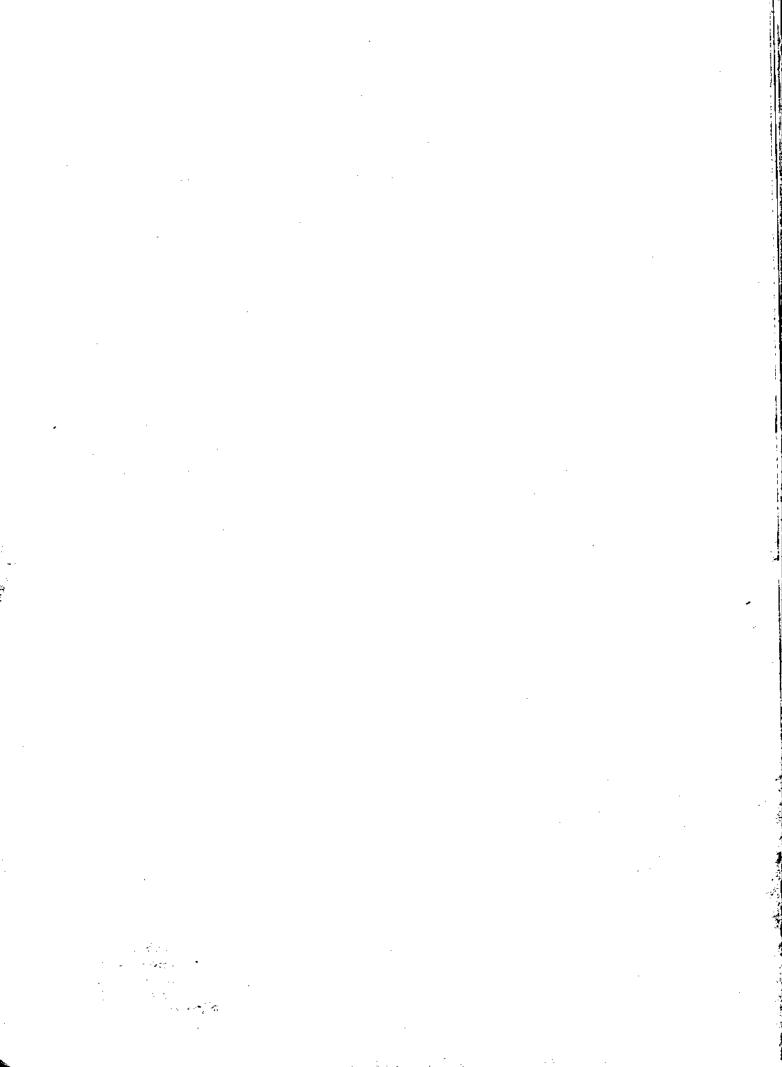
A listing of this kind is of short term value as it stands, in that programmes of research are often subject to change according to the availability of resources and changing operational needs of sponsoring bodies. Therefore, not all the prospective items listed may, in fact, proceed. However, to mitigate these circumstances, at the end of each section is the name, address and telephone number of a suitable contact in the respective agency, who will be pleased to respond to enquiries and requests for further information.

It is hoped that this compilation will be of value and interest to those with an involvement in countryside recreation and allied fields. Further copies are available free of charge from Hilary Talbot-Ponsonby, School for Advanced Urban Studies, University of Bristol, Rodney Lodge, Grange Road, Bristol, BS8 4EA. (0272) 741117.

BODIES REPRESENTED ON CRRAG

Association of County Councils Association of District Councils Association of Metropolitan Authorities British Tourist Authority/English Tourist Board British Waterways Board Convention of Scottish Local Authorities Countryside Commission Countryside Commission for Scotland Department of the Environment (Observer) English Heritage Forestry Commission Ministry of Agriculture, Fisheries and Food (Observer) Natural Environment Research Council Nature Conservancy Council Scottish Development Department (Observer) Scottish Sports Council Scottish Tourist Board Sports Council Wales Tourist Board Water Authorities Association

The Group includes representatives of a range of statutory agencies: from those whose role is mainly to provide grants and advice (such as the two Countryside Commissions), to representatives of the Local Associations whose member Councils are the main public sector providers. The Group was established in 1968 as an advisory technical liaison group to harmonise the countryside recreation research of member agencies and to promote knowledge of such research. The harmonisation aim is achieved by the agencies making regular presentations of their research and development programmes to the Group.



GLOSSARY

ACC ACORN	Association of County Councils A classification of residential neighbourhoods	ITE	Institute of Terrestrial Ecology
ADAS	Agricultural Development and Advisory Service (MAFF)	JURUE	Joint Unit for Research on the Urban Environment
ADC	Association of District Councils		Divioniment
AMA	Association of Metropolitan Authorities	LB	London Borough
BTA	British Tourist Authority		
BWB	British Waterways Board	MAFF MAS	Ministry of Agriculture, Fisheries and Food MAS Survey Research Ltd.
ÇAP	Common Agricultural Policy	MNR	Marine Nature Reserve
CASE CC	Collaborative Award in Science and Engineering Countryside Commission	MSC	Manpower Services Commission
CCS	Countryside Commission for Scotland	NCC	Nature Conservancy Council
CLR	Centre for Leisure Research	NERC	Natural Environment Research Council
CoSIRA	Council for Small Industries in Rural Areas	NNR	National Nature Reserve
COSLA	Convention of Scottish Local Authorities	NP	National Park
CRRAG	Countryside Recreation Research Advisory Group	NT	National Trust
DC	Development Commission	SC	Sports Council
DEn	Department of Energy	SDD	Scottish Development Department
DOE	Department of the Environment	SSC	Scottish Sports Council
DOI	Department of Industry	SSSI	Site of Special Scientific Interest
DTp	Department of Transport	STB	Scottish Tourist Board
E.C	Yerraman Camericalan	STRI	Sports Turf Research Institute
EC EH	European Commission English Heritage		
ESRC	Economic and Social Research Council	TRRU	Tourism and Recreation Research Unit,
ETB	English Tourist Board		University of Edinburgh
FBA	Freshwater Biological Association	WA	Water Authority
FC	Forestry Commission	WAA WRC	Water Authorities Association Water Research Centre
GHS	General Household Survey	WTB	Wales Tourist Board

THE RESEARCH PROGRAMMES 1985/86

ASSOCIATION OF COUNTY COUNCILS

Research of Member Councils 1985/86

Authority	Project Title and Summary of Objectives	Timescale	Contact
Ecology			
Derbyshire ACC1	Wildlife Habitat Assessment. To produce basic information for the development of planning policies and to identify conservation priorities; and for recreation/education use and interest.	1982/86	A Cooper, Planning Dept,
Hampshire ACC2	Habitat Survey of County Council Recreation Sites. Assessment of vegetation types with attention to features of special interest, flora and fauna, on about 40 sites managed for countryside recreation.	1984/86	C R Cuthbert, Recreation Dept.
Hertfordshire ACC3	Survey of Unimproved Grazing Land. To provide comprehensive ecological information on the semi-natural grassland habitat resource of Hertfordshire. To assist decision-making on a wide range of planning/conservation and management activities.	1985	M Crafer, Planning Dept.
Hertfordshire ACC4	Creating Attractive Grasslands. To study a variety of techniques to establish attractive grasslands. Current research is concerned with determining appropriate species and seeding rates for use on chalk banks exposed by road construction.	1985	M Beaton, Planning Dept,
Humberside ACC5	Separate ecological surveys of Flamborough Headland; Millington Wood; disused railway lines; highway verges; woodlands.	1984/86	S Shuttleworth, Planning Dept.
Lancashire ACC6	Lancashire Woodlands Survey. To survey woodlands and determine the extent and condition of the County's ancient and secondary woodlands with a view to promoting sympathetic management.	Continuous	G P Morries, Planning Dept.
Mid Glamorgan ACC7	Commons Management. To resolve conflicts in the use of upland common land between agriculture, recreation and cultivation.	1984	J Wykes, Planning Dept.
Mid Glamorgan ACC8	Kenfig Pool and Dunes Local Nature Reserve. To protect and conserve SSSI through management, monitoring and research using NCC data system.	Continuous	J Wykes, Planning Dept.
North Yorkshire ACC9	Survey of Coppicing in Ancient Woodlands. Survey of ecological effects of coppicing to provide back- ground information upon which to base future management plans.	Continuous	Yorkshire Dales National Park Officer.
North Yorkshire ACC10	Northern Hay Meadows. To define the hay meadow resource in the Yorkshire Dales National Park.	1985	Yorkshire Dales National Park Officer.
North Yorkshire ACC11	Enclosed Grassland Survey. To establish the relative proportion of various types of grassland in the Yorkshire Dales National Park.	1985	Yorkshire Dales National Park Officer,
North Yorkshire ACC12	Phase I Botanical Survey. To provide information on natural and semi-natural habitats in the Yorkshire Dales National Park.	1985	Yorkshire Dales National Park Officer.

Peak District National Park ACC13	Evaluation of the Recreational Use of Moorland Areas. A pilot study to evaluate techniques for monitoring recreational use of open moorland. To feed into a major study in 1986 evaluating the impact of recreation on moorland wildlife and habitats.	Committed New Research	A Dobson,
Peak District National Park ACC14	Moorland Restoration Project. To quantify the extent of moorland erosion and to examine means of restoring eroded areas. The results of this are being applied to a wider area aiming to restore the moors and maintain profitable hill sheep farming.	Continuous	K Parker.
Wiltshire ACC15	Biological Record. To compile a computerised data base on the flora and fauna for Wiltshire.	Annual	R L Pybus, Director, Library & Museum Service.
Education			
Derbyshire ACC16	Derbyshire Environmental Education Resources Guide. To provide a guide listing the resources in Derbyshire (including the Peak Park) for environmental and outdoor education.	1985/86	A Hans, Planning Dept.
Essex ACC17	Survey of Visitors to Marsh Farm Country Park. To assess extent to which visits to the Farm influence the public conception of modern agricultural methods, and to evaluate the response of teachers to the project.	1985/86	Or J R Thompson, Estates and Valuation Dept.
Wiltshire ACC18	Exploring the Environment. A series of one day "expeditions" for primary school pupils, to encourage the practical use of maps; group and individual decision making; problem solving; and making use of the countryside.	1985	M Weale, Education Dept.
Information and Interpr	retation		
Cheshire ACC19	Wartime Tatton. To produce an exhibition and booklet on Tatton Park during the 1939/45 War.	1985	Miss D Pile, Countryside and Recreation Division.
Cheshire ACC20	Wartime Cheshire. To produce guide books describing how Cheshire was involved in the 1939/45 War.	1985	Miss D Pile, Countryside and Recreation Division.
Cheshire ACC21	History and Origins of Tatton Park Garden. To produce a booklet for visitors giving an outline of the history and origins of the garden.	1985	T A C Neate, Director, Tatton Park.
Cheshire ACC22	History and Origins of the Home Farm, Tatton. To produce a booklet for visitors, giving an outline of the history and origins of Home Farm.	1985	T A C Neate, Director, Tatton Park.
Gwynedd ACC23	Amenity Woodlands and Hedgerows in the Conway Valley. Identifying important woodlands and hedgerows with the aim of drawing up management plans for those with recreational importance.	1985	T J Rendell/ Miss A S Clark.
Lancashire ACC24	Lower Ormerods, Haslingden Grange. To record and interpret the remains of a 17th century farm house.	Continuous	G P Morries, Planning Dept.
Mid Glamorgan ACC25	Cwm Risca Demonstration Farm. To demonstrate how to combine modern farming and conservation (with Countryside Commission).	1985	J Wykes, Planning Dept.
Mid Glamorgan ACC26	Explore Mid Glamorgan. To provide recreation opportunities and encourage awareness of environment for residents and visitors,	1985	E Dean, Planning Dept.

Peak District National Park ACC27	Marketing Study of Information Provision. To evaluate the effectiveness of information and interpretation facilities within the Peak District National Park.	Tentative New proposal.	J A Greenwood.
South Glamorgan ACC28	Flatholm Island Project. To provide nature study centre and use the Island as a natural history, historical and education resource.	Committed New Research	Frank Coleman, Environment Dept.
Plans and Studies			
Derbyshire ACC29	Trent Valley Recreation Local Plan. To provide policies for after-uses of sand and gravel workings; to resolve conflicts between competing recreational uses; to improve the landscape and access opportunities along the Valley.	1979 / 86	P Wigglesworth, Planning Dept.
Devon ACC30	Leisure Policies and Programmes. To assess existing leisure facilities within Devon; consider what provisions are made by local authorities; assess any major defects in provision; produce priorities, programme, costs.	Completed	P J Hunt, Property Dept.
Peak District National Park ACC31	Monitoring of the Integrated Development Project. To monitor the Integrated Rural Development Project, which was set up in 1982 in two villages, to see if economic, social and environmental interests could be harmonised.	On-going	K Parker.
South Glamorgan ACC32	Glamorgan Heritage Coast. To protect the coastline between Porthcawl and Aberthaw, involving the community and encouraging enjoyment of natural amenities.	Annual	J Howden, Environment Dept.
Recreation			
Derbyshire ACC33	Carsington Reservoir. The development of recreation facilities associated with the creation of large storage reservoir in rural Derbyshire.	1980/89	A Hans, Planning Dept.
Derbyshire ACC34	North East Derbyshire Network of Recreation Footpaths and Trails. Based on disused railways and collieries to create access into open countryside from urban areas on edge of coalfield.	1982/86	A Hans, Planning Dept.
Derbyshire ACC35	County Cycle Route Strategy. To develop a County-wide network of recreational cycle routes linking surrounding conurbations with the Peak Park and Derbyshire's countryside.	1982/86	D Bathe, Planning Dept.
Devon ACC36	Haytor Granite Tramway and Stover Canal Study. To assess the recreational potential of land between Haytor Quarry and Teignmouth, including Stover Country Park.	Completed	D Andrew, Property Dept.
East Sussex ACC37	Circular Walks Study. To produce a book for use by statutory and non-statutory organisations in setting up and marketing circular walks.	1985	J Wilkinson, Planning Dept.
Hertfordshire ACC38	Bridleway Project. To improve and conserve informal recreation access in rural East Hertfordshire and to increase public understanding of rights of way.	1985	C Cheeseman, Planning Dept.
Humberside ACC39	Scenic Route Project. To identify scenic routes and prepare supporting literature.	1985	S Shuttleworth, Planning Dept.
Mid Glamorgan ACC40	Darren Valley Project. To provide a management plan involving recreational and environmental improvements, including land reclamation.	1984	P Ludiow, Planning Dept,
North Yorkshire ACC41	Study of Visitor Use. To investigate a wide range of aspects of visitor use of North York Moors National Park, based on site surveys and observational method.	Continuous	J Watts, North York Moors National Park Dept.

North Yorkshire ACC42	Survey of Recreational Use. To provide basic data on the distribution, origin and nature of visitors to the Yorkshire Dales National Park.	Recurrent annual research	Yorkshire Dales National Park Officer.
South Glamorgan ACC43	Cycle Routes. To provide urban cycle routes and investigate cycle access to countryside for commuters and pleasure cyclists.	1984	P Williams, Environment Dept.
South Glamorgan ACC44	Caerphilly Mountain Project. To improve landscape quality and access and enjoyment of the countryside.	Continuous	P Jayne, Planning Dept., Mid Glamorgan County Council.
Rural Environment/Her	ritage		
Hampshire ACC45	Countryside Heritage Project. To promote public interest in the Hampshire countryside and its surviving heritage; to promote the identification and recording of heritage features; to protect and conserve Hampshire's heritage countryside features.	Continuous	V Hazel, Planning Dept.
Lancashire ACC46	Sheddon Clough. To identify features and structures in the Sheddon Clough Valley associated with the working, extraction and burning of limestone; to prepare a scheme for the participation, inter- pretation and management of features and structures identified.	1985	D W G McKay, Planning Dept.
Peak District National Park ACC47	New Uses for Redundant Buildings. To devise a methodology for identifying and promoting new uses for redundant buildings and to apply this methodology within parts of the National Park.	On-going	A Dobson.
Surveys of Visitors/Res	idents		
Derbyshire ACC48	Visitor Survey of Leisure Facilities. To provide basic information on the number of visitors, their characteristics including spending habits, and general activities for the principal countryside leisure facilities managed by the County Council.	Completed	A Cooper, Planning Dept.
Durham ACC49	Visitor Survey of Country Parks and Picnic Areas. Questionnaire survey of visitors to selected sites, to find where they come from, how long they stay, activities on site, and use of facilities.	Continuous	D Oldham, Planning Dept.
Dyfed ACC50	Pembrokeshire Visitor Survey 1984. To assess trends over last decade and forecast future desires/ requirements of visitors as a guide to policy formulation in respect of value of tourism to local economy; accommodation; facilities and travel needs.	1985	C S Kirkbride, Pembrokeshire Coast National Park Authority.
Essex ACC51	Survey of Visitors. To assess the requirements of visitors to the Country Parks, and evaluate their response to newly opened visitor centres; to assess the cost effectiveness of individual parks.	1985/86	Dr J R Thompson, Estates and Valuation Dept.
Hampshire ACC52	1984 Visitor Surveys Project. Surveys of visitors to 6 Country Parks and 9 other recreation sites managed by the County Council, to provide information to improve the planning, management and marketing of the County's countryside recreation sites.	Completed	A Inder, Recreation Dept.
Peak District National Park ACC53	Survey of the Use of Public Transport for Recreation in the Peak District. To collect information on the nature and extent of use of the recreational bus services supported by the Peak Park Joint Planning Board, the use of Peak Wayfarer ticket and the attitudes and preferences of ticket users.	Completed	M Smith.

Tourism			
Gloucestershire ACC54	Tourism in Gloucestershire. To develop forms of tourism suited to the County including a variety of activities and facilities.	Continuous	R Colley, Planning Dept.
Gloucestershire ACC55	Cotswold Water Park Tourism Study. To examine marketing strategies and opportunities (with Heart of England Tourist Board).	1984	D Ball, Planning Dept.
North Yorkshire ACC56	Cleveland Way Accommodation Needs. To survey the use of the Cleveland Way between Saltburn and Whitby, including an investigation of the accommodation needs of long distance walkers.	1985	J Watts, North York Moors National Park Dept.
Nottingham ACC57	Tourism Survey — Sherwood Forest Visitor Centre. To determine current tourism trends within Sherwood Forest. Survey carried out by Survey Research Associates.	Continuous	J. Berresford, Leisure Services Dept.
Nottingham ACC58	Retail Outlets Survey — Sherwood Forest Visitor Centre and Rufford Country Park. To investigate the usage of retail outlets at Sherwood Forest Visitor Centre and Rufford. Survey carried out by Survey Research Associates.	Continuous	J Berresford, Leisure Services Dept.
Staffordshire ACC59	Tourism Potential and Development, Joint study with Derbyshire County Council and Peak Park Planning Board, and member authorities of the North East Staffordshire Working Party, on tourism potential and development in the north east Staffordshire and Derbyshire Rural Development Area. Funded by the Development Commission.	1985/86	I G Boughton, Planning and Development Dept.

ASSOCIATION OF METROPOLITAN AUTHORITIES

Research of Member Councils 1985/86

Authority	Timescale	Contact	
Access to the Countrysi	de		
Birmingham	Canals. To develop and improve public access along canal towpaths within the city through co-operation with BWB and County Council.	On-going	G Shaylor, City Planning Dept.
Birmingham	River Rea Walkway. To develop a linear riverside walk with emphasis on nature conservation. Jointly sponsored with MSC.	Continuous	G Shaylor, City Planning Dept.
Birmingham	River Tame Walkway. To develop the river valley and form a link to the Sandwell Valley Country Park, Jointly sponsored with MSC.	1985/86	G Shaylor, City Planning Dept.
Birmingham	Harborne Canal, Dudley. To form a link between the City Centre canals and the Woodgate Valley Country Park by restoring and developing an abandoned canal. Jointly sponsored with MSC.	1985/86	G Shaylor, City Planning Dept.
Birmingham	Urban Fringe/Green Belt, To survey footpath and improve waymarking to develop links through to open countryside, Jointly sponsored with MSC.	1985	G Shaylor, City Planning Dept.
LB of Redbridge LB of Newham LB of Barking	Rodney Valley Linear Park. To develop a Linear Park adjoining southern end of M11 and South Woodford-Barking Relief Road, Sponsored by DTp.	1980/88	J P Tyrrell, Planning Dept.
Rotherham	Thrvbergh Country Park. To expand the Ranger Services; to gain access and management agreements; to make more countryside available to the public having due regard to conservation. Jointly sponsored with CC.	Continuous	J Woods, Chief Ranger,
LB of Sutton	Green Belt Plan. To enhance the ecological and recreational value of the Green Belt areas and to aim to make these available to the local community.	1985/86	G Dean, Planning Dept.
Agriculture			
Salford	Clifton House Farm. To develop an existing farm for use as a town farm and visitor centre.	Continuous	Recreation Services Manager.
Wirral	Thurstaston Common. Sheep grazing experiment on an area of lowland heath common land with public access. Jointly sponsored with NT and NCC.	Continuous	D Cowling, Countryside Officer.
Conservation			
LB of Ealing	Hanger Hill Park, Foxwood. To develop the conservation potential of the site. Managed by the London Wildlife Trust.	Continuous	Chief Officer, Parks and Amenities.
LB of Ealing	Yeading Valley Park. To develop the conservation potential of the area. Managed by the London Wildlife Trust.	Continuous	Chief Officer, Parks and Amenities.

Greater Manchester

Mersey Valley.

To conserve urban fringe valley with worst river pollution in Britain. Jointly sponsored with Stockport, Tameside and

Manchester City.

Continuous

1985/90

1983/86

Land Reclamation/Restoration

Birmingham

Brookmeadow Public Open Space. To reclaim and develop an area formerly tipped with noxious waste, to provide local play area, conservation zones and a link with the River Cole Walkway, Funded by a Derelict

Land Grant from DOE.

LB of Hillingdon

Stockley Park. 257 acres, previously quarried and infilled to be landscaped as public open space including a golf course, equestrian area, bridleway, footpaths, playing pitches, play area, areas for informal leisure and large areas of tree planting. Jointly

sponsored with Stockley PLC.

Salford and Trafford

Salford/Trafford Groundwork Trust. To carry out environmental improvement schemes, Jointly sponsored by a Derelict Land Grant from DOE, CC and

private finance.

Land at Looch Lane, Partington. Trafford

Derelict Land Reclamation Scheme for agriculture and

informal public open space.

Trafford Manchester Road, Carrington.

To provide a motorcycle scrambling track, horse trotting

track and wildlife area on derelict land.

West Yorkshire Reclamation Trials.

> Photodegradable Polythene Mulch Trials on forest areas; the improvement and establishment of early growth of transplants on colliery spoil; the evaluation of different moisture retention products used on forest transplants; the improvement and establishment of growth of transplants on freely draining materials and exposed sites with

low moisture retention.

Management of Facilities/Recreation Activities

Birmingham

Project Kingfisher, River Colne Valley. To develop the wildlife potential and improve the habitat within the valley to include footpaths, interpretative points, picnic areas etc. Jointly sponsored with West Midlands

County Council, CC.

Bury Croal/Irwell Valley Local Plan.

To improve and enhance the environment and recreation aspects of the valley. Jointly sponsored by Greater

Manchester Council.

Country Park on Thorne and Hatfield Moors. Doncaster

To identify a programme of action to promote tourism activity and provision of regional/sub-regional countryside

recreation facilities.

Brent River Park. LB of Ealing

To provide a Linear Park through the Borough.

Clark's Meadow Open Space. LB of Hillingdon

> To develop informal open space, riverside walk, children's playground and landscaping linking the open space areas of

Brunel University, Uxbridge and Yiewsley.

1985/86 J M Munn.

Recreation and Community Services.

Director.

Leisure Services.

J Caird.

Salford/Trafford

Groundwork Trust.

1985/86 B Dunphy,

Planning Dept.

1986/87

S Brian,

Planning Dept.

E Simmons, On-going

Land Reclama-

tion Unit.

On-going

On-going

1985

1985/87

J M Munn,

Recreation and Community

Services.

J B Hall, Planning and

Architecture.

A Hart,

Planning Division.

Continuous Chief Officer,

Parks and

Amenities.

Director,

Leisure Services.

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LB of Hillingdon	Charville Open Space — Michael Frost Park. To develop a large area of Yeading Brook Regional Open Space as an informal park including bridleways, equestrian area, footpaths, nature trails, areas for informal leisure.	1980/87	Director, Leisure Services.
LB of Hillingdon	Willow Tree Lane Open Space. To provide 40 acres of open space within the Willow Tree Lane Joint Development (residential) to include football pitches, cricket squares and a footpath network.	On-going	Director, Leisure Services.
LB of Newham	Northern Outfall Sewer Embankment. To develop a recreational cycle route.	Continuous	G Braun, Planning Dept.
LB of Newham	Lee Valley Towpath Improvements. To facilitate and encourage greater public use of the network of towpaths alongside the Rivers Lea and Brow Back.	1985/86	G Braun, Planning Dept.
LB of Redbridge	Fairlop. To provide a country park, sailing lake and golf centre.	1983/87	J P Tyrrell, Planning Dept.
LB of Richmond upon Thames	River Crane Walkway. Creation of Walkway to the Thames.	Continuous	Chief Planning Officer.
LB of Richmond upon Thames	Beverly Brook Walk. Waymarking and production of an interpretative guide.	Continuous	Chief Planning Officer.
Salford	Worsley Woods. To produce a management plan and develop the recreational potential of a large urban fringe area including visitor centres.	1983/87	Recreational Services Manager.
Salford ·	Croal Irwell Valley. To produce a management plan covering recreation, land reclamation, improving the landscape, interpretation and access opportunities. Sponsored by Greater Manchester Council.	Continuous	City Technical Services Officer.
Stockport	Middlewood Way. To develop a linear park (2½ miles) on former railway. Jointly funded with Derelict Land Grant from DOE.	On-going	Director, Recreation and Culture,
Stockport	Ladybrook/Micker Brook Valley. To create urban fringe valley access (about 7 miles) linking other leisure areas. Jointly sponsored with MSC, CC.	On-going	Director, Recreation and Culture.
Stockport	Lyme Park. To provide interpretation and access to a wild country park. Jointly sponsored with Greater Manchester Council.	Continuous	Director, Recreation and Culture.
Stockport	Tame Valley. To interpret and warden an amenity valley reclaimed from dereliction. Jointly sponsored with Greater Manchester Council, Tameside and Oldham.	On-going	Director, Recreation and Culture.
Trafford	Bridgewater Canal Cycle Way. To provide an experimental cycle way/footpath along a limited stretch of the Bridgewater canal for a temporary period. Jointly sponsored with Greater Manchester Council.	1986/87	S Brian, Planning Dept.
Site Development and	Management		
Birmingham	Chadbrook Walkway, Harborne. To create a brookside walk and enhance the ecological value of an existing, previously unmanaged, natural area, Jointly sponsored with MSC.	1984/86	J M Munn, Recreation and Community Services.
Birmingham	Woodgate Vailey Country Park. To secure and protect area of former farmland and developing woodland, and to provide additional access with interpretative facilities. Jointly sponsored with CC, MSC.	Continuous	J M Munn, Recreation and Community Services,

Coventry	Coventry's Countryside Project. To improve the conservation and recreation management of countryside and open space areas of the city. Jointly sponsored with CC.	Continuous	P Hunter, Planning Dept.
Dudley	Saltwells Local Nature Reserve. To conserve and enhance an area of geological and ecological importance through management and use of the voluntary sector. Jointly sponsored with NCC, Landscape Institute, West Midlands County Council, DOE.	Continuous	A Post, Senior Warden, Saltwells Local Nature Reserve.
LB of Ealing	Horsenden Hill, To develop the informal recreation potential of the natural woodlands and fields. Jointly sponsored with CC.	Continuous	Chief Officer, Parks and Amenities.
LB of Hammersmith and Fulham	Scrubs Wood. To develop an ecological park in conjunction with Hammersmith and Fulham Amenity Trust. Jointly sponsored with the DOE.	1985/89	P G Crawshaw, Planning Dept.
Manchester	Blackley Forest. To manage and develop an area of 23 hectares for wildlife conservation and informal recreation. Jointly sponsored with MSC and CC.	1982/86	E Norsworthy, Recreation Services Dept.
LB of Richmond upon Thames	Sites of Local Nature Interest. To identify and protect habitats and to produce Management Plans and interpretative guides.	Continuous	Chief Planning Officer.
Stockport	Etherow and Goyt Valleys, Joint urban fringe management (14 miles of valley). Jointly sponsored with Greater Manchester Council.	Continuous	Director, Recreation and Culture.
LB of Sutton	Wandle Valley improvements. To improve river environment and fully involve the local community in its future use and maintenance.	1983/85	G Dean, Planning Dept.
West Yorkshire	Lower Aire Valley, Management Plan for Wildlife Resources. To outline wildlife resources; to propose management and development schemes and relate these to public access and interpretative facilities.	1985	J S Watson, Planning Dept.
Wirral	Dibbinsdale Local Nature Reserve. Woodland management and footpath improvements involving local landowners, Cheshire Conservation Trust and NCC. Jointly sponsored with CC and Merseyside County Council.	1981 onwards	D Cowling, Countryside Officer.
Wirral	Thurstaston Common and Heswall Dales. To promote recovery of lowland, heath vegetation through a programme of mechanical and chemical methods; to improve footpaths and interpretation.	1984/87	D Cowling, Countryside Officer.

BRITISH TOURIST AUTHORITY/ENGLISH TOURIST BOARD

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			Summary of Objectives	Timescale	Comments
	Continuous/A	Annual Research			
	BTA/ETB1	British Tourism Survey	Comprehensive monthly survey of all overnight trips taken by British residents, plus an annual survey of Britons' holiday-taking at home and abroad.	Continuous/ annual	Combines two previous tourism surveys: the British Home Tourism Survey and the British National Travel Survey.
	BTA/ETB2	English Hotel Occupancy Survey	To survey bed and room occupancy, duration of stay, and the proportion of arrivals from overseas at a sample of hotels throughout England.	Monthly	Commissioned from British Market Research Bureau.
	вта/Етвз	Holiday Intentions Survey	To survey British residents' intentions to take a holiday of four nights or more during the forthcoming season.	Annual	Commissioned from NOP Market Research Limited.
	BTA/ETB4	English Heritage Monitor	To analyse England's historic attractions in terms of their number, type, presentation, and visitor trends.	Annual	In-house.
	BTA/ETBS	Sightseeing in England	To analyse the use and capacity of all kinds of visitor attractions in England.	Annual	Compiled in-house on basis of survey of visits to attractions throughout England.
	вта/Етв6	International Passenger Survey (secondary analysis)	To examine the volume, value, and characteristics of overseas visitors to Britain.	Annual	The survey is sponsored by the Department of Trade and Industry. BTA and the tourist boards pay for extra data col- lection and analysis on specified topics.
	BTA/ETB7	Overseas Market Profiles	To monitor changes in holiday behaviour in Britain's main overseas markets.	Annual	
	BTA/ETB8	Overseas Visitor Survey	To investigate the profile and opinions of overseas visitors to Britain.	Confinuous	Some regular and some occasional topics are included in this survey whose findings supplement data from the International Passenger Survey.
	ВТА/ЕТВ9	London Visitors Survey	To examine the characteristics, behaviour, and opinions of overseas visitors in London during the summer.	Annual	Sponsored in collaboration with London Visitor and Convention Bureau and London Transport.
	BTA/ETB10	Tourism Barometer	To survey business trends by sector of the tourist industry.	Quarterly	Results on Prestel (page 22088).
	BTA/ETB11	Tourism Price Index	To survey international tourism prices.	Twice yearly	
	Current Resea	arch			
	BTA/ETB12	Bournemouth and South East Dorset Tourism Survey	To examine current visitors, their economic and social impact, tourism prospects and resources and advise on future policies for marketing and development.	1984/85	Sponsored by Bournemouth Council, Dorset County Council, ETB, and Southern Tourist Board.

British Tourist Authority Publications

BTA(P) 1	British Tourist Authority, English Tourist Board, Scottish Tourist Board, Wales Tourist Board (1984),
• ,	British Home Tourism Survey 1983.
BTA(P) 2	British Tourist Authority (1984), Strategy for Growth 1984-1988.
BTA(P) 3	British Tourist Authority (Quarterly), Tourism Intelligence Quarterly.
BTA(P) 4	British Tourist Authority (1984), Heritage Directory.
BTA(P) 5	British Tourist Authority (1985), Survey Amongst Overseas Visitors to London, Summer 1984.
BTA(P) 6	British Tourist Authority, British Travel News: Research Newsletter.

English Tourist Board Publications

1. Annual Publ	
ETB(P) 1	English Tourist Board (1984), English Hotel Occupancy Survey (Monthly Reports and Annual Summary).
ETB(P) 2	British Tourist Authority, English Tourist Board, Scottish Tourist Board, Wales Tourist Board (1984),
• /	British Home Tourism Survey 1983.
ETB(P) 3	English Tourist Board (1984), English Heritage Monitor 1984.
ETB(P) 4	English Tourist Board (1984), Sightseeing in 1983.
ETB(P) 5	English Tourist Board (1984), Proposed Major Conference and Exhibition Centres: Plans in 1984.
ETB(P) 6	English Tourist Board (1984), England's Tourism.
ETB(P) 7	English Tourist Board (1984), Holiday Intentions Survey.
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2. Other Publications

ETB(P) 8	English Tourist Board (1984), Chester Tourism Study.
ETB(P) 9	English Tourist Board (1984), Winchester Tourism Study.
ETB(P) 10	English Tourist Board (1984), English Churches and Visitors.
ETB(P) 11	English Tourist Board (1984), National Tourism Facts.

Contact for Enquiries: I M Rickson, Planning Research Manager, BTA/ETB Research Services, Thames Tower, Black's Road, London W6 9EL. (01 - 846 9000 Ext 2464).

BRITISH WATERWAYS BOARD

Research Programme 1985/86

Project Title		Summary of Objectives	Timescale	Comments	
Current Rese	earch				
BWB 1	Leisure and Tourism Usage and Perceptions	To provide a marketing intelligence base for the Board's Corporate Plan.	July 1984/ May 1985	Household surveys and site surveys carried out by consultants in summer 1984, report due for publication May 1985.	
BWB 2	Honeypot Surveys	To identify development potential at 9 of the most popular waterways locations.	July 1984/ June 1985	Interview surveys carried out summer 1984, report due June 1985.	
BWB 3	Caledonian Canal	To improve the marketing and development of this waterway.	July 1984/ Dec 1985	Pilot undertaken 1984, to be repeated in summer 1985.	
BWB 4	East Midlands Cruiseway	To collect market information and to help refine the concept of the East Midlands Cruiseway.	July 1984/ May 1985	Survey carried out summer 1984, report due May 1985.	
BWB 5	Boating and Angling Relation- ships	To investigate the relationships between boat traffic, waterway ecology and fisheries on canals.	Sept 1984/ Sept 1987	Carried out by a student at Liverpool University, funded by a CASE award and BWB sponsorship.	
BWB 6	Central Scotland Canals	To identify the scope for private sector development along the Forth and Clyde Canal and the Union Canal.	April 1985/ Oct 1985	Carried out by consultants jointly funded with Scottish Development Agency and local authorities.	
Committed N	New Research				
BWB 7	Stoke Bruerne Marketing Study	To collect information about the market characteristics and attitudes of visitors to the waterways museum.	May 1985/ Dec 1985	Carried out in-house.	
Tentative New Proposals					
BWB 8	Hire Boat Tourism Industry	To monitor the performance of the hire boat industry.	1985 +	Possible joint exercise with Trade Association.	
BWB 9	Trip Boat Marketing Survey	To survey trip boat operators and users of trip boats.	Start mid 1985		

RESEARCH PUBLICATIONS 1984/85

BWB (P) 1 Hire Cruiser Surveys 1982 and 1983, Leisure Research Paper No. 21, (February, 1985).

Contact for Enquiries: Mr Robert Hall, Leisure Planning Officer, British Waterways Board, Penn Place, Rickmansworth, WD3 1EU, (0923 778231).

COUNTRYSIDE COMMISSION

Project Title		Summary of Objectives	Timescale	Comments		
Current Research						
CC1	Culm Measures	See MAFF programme for details (MAFF15).				
CC2	Demonstration Farms Programme Phase IV	To promote advice and technical knowledge on all aspects of practical landscape conservation to farming interests via a demonstration programme on 10 farms.	Continuing	Co-sponsored with FC, MAFF and NCC.		
CC3	Bedfordshire New Agricultural Landscape Project	To promote landscape conservation and enhancement in an area of North East Bedfordshire.	1980/86	Co-sponsored with Beds CC and districts, MAFF, being carried out by a project officer.		
CC4	Pennine Small Woods project	To identify the problems associated with managing small woods, develop solutions and provide advice.	1981/85			
CC5	Operation Groundwork	Urban fringe environmental improve- ment and recreation project using a Charitable Trust, working in partnership with local authorities and the commercial and voluntary sectors.	1982/86	Based in St Helens and Knowsley.		
CC6	Monitoring and evaluation of Operation Groundwork	Monitoring the work of the project and evaluating the effectiveness of Groundwork in achieving its objectives, focusing mainly on Operation Groundwork.	1982/86			
CC7	Monitoring Land- scape Change	To provide reliable information on rates of change in countryside features on a continuing basis.	1984/86	Co-sponsored with DOE.		
CC8	Access Study	To assess current availability and value of access provision for sport and recreation in relation to the needs of users and attitudes of providers.	1983/85	Co-sponsored with Sports Council, being carried out by CLR Edinburgh.		
CC9	1984 Survey of Countryside Recreation	Measure volume and nature of countryside trips in 1984.	1983/85	Will include data comparable to 1977/80 to establish trends, being carried out by MAS Survey Research.		
CC10	New Forest: Premium Scheme for Ponies	To help improve the overall manage- ment of the New Forest through encouraging good quality breeding stock.	1982/88			
CC11	Promotion of Canal towpaths for recreation	To test the potential of canal tow- paths for recreation and access on the Leeds Liverpool and Brecon Monmouth canals.	1984/87	Co-sponsored with the BWB.		
CC12	Monitoring Part III of the Wildlife and Countryside Act	To measure changes in rights of way and definitive maps following the new provisions of the Act.	1984/86	To be carried out by the Ramblers' Association,		

CC13	Section 43/1981 Map Work	To provide definitive maps of moor and heath in each national park.	1985/86	Requirement of Wildlife and Countryside Act.
Committed :	New Research			
CC14	Study of Riparian Landscapes	To evaluate landscape, wildlife and recreation consequences of river improvement by water authorities.	1985/86	Consultants appointed.
CC15	Management of Uncropped Farm- land	An examination of means of con- serving features of wildlife and landscape interest without jeopardising agricultural output.	1985/87	To be carried out by the Weed Research Organisation.
CC16	Comish Heritage Coast Project	To develop countryside management techniques on heritage coasts in Cornwall.	1985/87	To be carried out with the National Trust.
CC17	Integrated Rural Development	See DOE programme for details (DOE 6).		
CC18	Assessment of high grade limestone sources in Northern England.	Preliminary study to identify gaps in the known data on the occurrence of high grade carboniferous limestone.	1985/86	
CC19	Landscape value research	To ensure a consistent approach when taking decisions and giving advice involving describing and evaluating landscapes.	1985/87	
CC20	Review of Amenity Tree Planting	To establish the survival rate of trees planted through schemes grant-aided by the Commission, under its land-scape enhancement policy.	1985/87	ITE appointed as consultants.
CC21	Land Occupancy and Landscape Change	To investigate the claim that changes in land tenures, ownership, and management regimes on farms are key causes of landscape change.	1985/87	Co-sponsored with ESRC.
CC22	Recreation trends	Up-to-date information on country- side visiting to be obtained by repeat of some questions from 1984 survey.	1985/87	
CC23	Wales Countryside Forum Access Project	Projects in Wales to demonstrate how access arrangements might be improved and disputes resolved.	1985/87	Project officers to be appointed.
CC24	Catalogues of Common Land	A study of Common Land Registers to establish ownership and location, also the management of common land and its landscape and agricultural status.	1985/86	
CC25	Recreation and the Disadvantaged	To devise policies to enable the disadvantaged to enjoy recreation provision.	1985/87	Co-sponsored with Notts CC.
CC26	Conservation attitude research	Information on public attitudes to landscape conservation, Questions to be added to British Social Attitudes Survey.	1985/87	
CC27	National Park Development Control Statistics II	A summary of the full report analysing the performance of national parks in carrying out development control.	1985	Summary to be carried out by GlosCAT.

CC28	Project Silvanus: Small Woods in the SW	A project to combine environmental conservation with development of wood industries, forestry employment, and alternative sources of income to farmers.	1985/89	To be carried out by Dartington Institute.
CC29	Landscape appreciation study of the New Forest	A project to produce a description of the New Forest evoking the land-scape and examining its specific qualities.	1985	To be carried out by Land Use Consultants.
Tentative No	ew Proposals			
CC30	Footpath Surveys	A feasibility study for an inventory of walking provision against which to measure the proposed review of footpath policies.	1985/86	
CC31	Recreation Market Research	To establish public reaction to the facilities which have been provided since the 1968 Countryside Act and future trends.	1985/87	A series of studies using consultants.

CC(P) 1	Bennett G, for the Institute for European Environmental Policy (1984), Application of the LFA Directive in the Netherlands, CCP 167.
CC(P) 2	Westmacott, R and Worthington, T (1984), Agricultural Landscapes: A Second Look, CCP 168.
CC(P) 3	Hamilton, P and Woolcock, J, Social Research Consultancy (1984), Agricultural Landscapes: An approach
	to their improvement, CCP 169.
CC(P) 4	Cobham, R, Cobham Resource Consultants (1984), Agricultural Landscapes: Demonstration Farms, CCP 170.
CC(P) 5	Agricultural Landscapes: A policy statement, CCP 173.
CC(P) 6	Hatts, L, (1984), The Thames Walk, CCP 174.
CC(P) 7	Parry, M, Department of Geography, University of Birmingham and Sinclair, G, Environmental Information
. ,	Services (1985), The Mid Wales Uplands Study, CCP 177.
CC(P) 8	Audio Visual Media in Country side Interpretation (1985), CCP 179.
CC(P) 9	Locke, S. (1985), Country park visitor surveys, CCP 180.
CC(P) 10	Joint Centre for Land Development and Studies, University of Reading (1985), Ploughing footpaths and
()	bridleways, CCP 190.

Contact for enquiries: Jeremy Worth, Recreation and Access Branch, The Countryside Commission, Crescent Place, Cheltenham, GL50 3RA. (0242 - 521381).

COUNTRYSIDE COMMISSION FOR SCOTLAND

Project Title		Summary of Objectives	Timescale	Comments		
Current and Recently Completed Research						
CCS1	Programme of Recreation Surveys in Lothian Region	Two site surveys; household survey in selected park catchment areas; overview and final report.	1985/86	Final stage of a co-ordinated programme of work, which is co-sponsored with Lothian Regional Council and East Lothian, Midlothian and West Lothian District Councils. Contracted to Anderson Semens Houston.		
CCS2	Survey of Southern Upland Way	Survey of the use of this long-distance route in its first year and of the economic benefits arising therefrom.	1984/85	Contracted to Anderson Semens Houston.		
CCS3	General Household Survey 1983	See SC programme for details (SC13).				
CCS4	Inventory of Gardens and Designed Landscapes	To compile a descriptive inventory of the main gardens and designed landscapes.	1985/87	Co-sponsored with the Historic Buildings and Monuments Directorate of SDD. Contracted to Land Use Consultants.		
CCS5	Lochshore Management Project	To develop experience in and advice for the management of the margins of large inland lochs and reservoirs for recreation and amenity.	To 1985	In-house with outposted project officer undertaking trials mainly concerned with engineered bank protection and vegetation management at the water's edge.		
CCS6	Footpath Manage- ment Project	To develop experience in and advice for the management of upland footpaths.	1984/86	Dr R Aitken contracted to mount a programme of trials and associated studies.		
CCS7	Advice on Drainage	To provide practical advice on drainage for recreation sites and footpaths.	1985	Contracted to the West of Scotland College of Agriculture.		
CCS8	Plants and Planting Methods for the Countryside	To collate and publish advice in information sheet format for planting and other resource management techniques for amenity and recreation provision.	On-going	Continuing in-house with contributions from external advisers.		
CCS9	Central Scotland Woodlands Project	Development project to improve landscape quality in the area of the Slamannan plateau by a programme of tree planting.	To May 1985	Project is being converted to an independent Trust operation.		
CCS10	Clyde-Calders Urban Fringe Project	Urban fringe project to develop methods of ameliorating landscape problems and to improve recreation opportunities in an area on the east side of the Glasgow conurbation.	1984/86	Co-sponsored with Strathciyde Regional Council, in associa- tion with the City of Glasgow, Hamilton, Motherwell and Monklands District Councils.		
CCS11	River Nevis Study	Study of River Nevis to advise on flooding, gravel extraction and bank erosion.	Completed	Co-sponsored with Highland Regional Council, Contracted to Sir Murdoch MacDonald and Partners.		

CCS12	Landscape and Wildlife Conserva- tion on Agricul- tural Land	Second stage of preparing conserva- tion plans for a further three farms in east Scotland (completed). To prepare summary advice based on the two previous stages of farm	1985	Follows on from previous study of three farms in Borders Region. Contracted to Cobham Resource Consultants. Co-sponsored with East of Scotland College of		
CCS13	Loch Lomond Park Study	To review possible management structure and organisation of the	Completed	Agriculture and NCC. Co-sponsored with Central and Strathclyde Regional Councils. Contracted to		
		proposed Loch Lomond Regional Park,		Centre for Leisure Research.		
New Propos	als					
CCS14	Survey of Pollok Park, Glasgow	Survey of park visitors updating 1979 survey and following opening of gallery for the Burrell collection in the park.	1985	Contribution to a study to be mounted by the City of Glasgow District Council. To be contracted to Anderson Semens Houston.		
CCS15	Monitoring Change in the Countryside	Survey of recent change to land cover and other attributes contributing to the appearance of the countryside.		Under discussion as to how this work would be undertaken in Scotland.		
CCS16	Buildings in the Scottish Country- side Stage II	To develop advice on the design of buildings in the landscape, drawing on data from the previous survey of traditional rural buildings.		Detailed proposal to be decided.		
CCS17	Design and Environmental Management in Ski Areas.	To review existing experience and recommend improved management methods.	1985/86	Contracted to Anderson Semens Houston.		
CCS18	Landscape Con- servation in National Scenic Areas.	Development project to promote scenic conservation allied to land use in the Glen Lyon and Rannoch National Scenic Areas.	1985/86	Contracted to Centre for Environmental Management and Planning, Aberdeen University.		
CCS20	Fiscal Incentives for Woodland Conservation	See NCC programme for details (NCC86).				
CCS21	Development Guidelines for Marine Fish Farms	Review of and recommendations to ameliorate environmental problems arising from fish farming.	1985	Contribution of study to be promoted by HIDB and others.		
CCS22	The Voluntary Sector and MSC in Countryside Provision	To review the contribution of the Voluntary sector and MSC towards conservation and recreation provision in the Scottish countryside.	1985/86	Detailed proposal to be decided,		
RESEARCH PUBLICATIONS 1984/85						
CCS(P) 1 CCS(P) 2 CCS(P) 3	Centre for Leisure F Scottish Leisure Sur Perth.	Scottish Mountain Footpaths: A Reconn Research (1985), Recreational Traffic in vey Report No I (1985), Recreation and	Lothian. I Holidays in the	e Countryside, The Commission,		
CCS(P) 4 CCS(P) 5	Report No 2 (1985) Report No 3 (1985)	, Changes in Outdoor Recreation 1973- , Countryside Recreation in Daily Life,	The Commission	ı, Perth.		
CCS(P) 6 CCS(P) 7	Report No 4 (1985), Patterns of Countryside Recreation Trips, The Commission, Perth. Rejach Hall Blyth Partnership (1985), Lavatories in the Countryside: A Design Guide, The Commission,					

Contact for enquiries: John W Mackay Esq, Countryside Commission for Scotland, Battleby, Redgorton, Perth PH1 3EW. (Perth (0738) 27921).

Naismith, R J, (1985), Buildings of the Scottish Countryside, Victor Gollancz, London.

Perth.

*Available in limited numbers only.

CCS(P) 8

CCS(P) 9 CCS(P) 10 Cobham Resource Consultants (1985), Landscape and Wildlife Conservation on Farms: A Further Report. *Central Scotland Woodlands Project: Sixth and Final Report, The Commission, Perth.

DEPARTMENT OF THE ENVIRONMENT

- 1. The Department of the Environment's total research programme covers a wide range of topics but relatively few of these are directly relevant to countryside recreation. The projects listed below are those which are most closely related to the aims and interests of CRRAG.
- 2. Although projects for 1985/86 have been approved in principle the whole programme is subject to review.

Proj e ct T i tle		Summary of Objectives	Timescale	Comments			
Recently Co	Recently Completed Research						
DOĒJ	The potential for Integrated Rural Development of the Less Well Favoured Areas of the South West of England	To survey conditions and aspirations of residents and ecological and economic potential of the area.	1981/83	Carried out by Dartington Institute. Current policies will be assessed against the potential, and recommendations for change made. Part of European Commission Integrated Rural Development Initiative and co-sponsored with EC, MAFF, DC and ETB.			
DOE2	Aid to Village Shops	To assess the effectiveness of schemes to maintain village shops.	1983/84	Co-sponsored with DC. Carried out by Building Design Partnership.			
DOE3	The Future of Rural Common Land	To examine the conditions and use of rural common land in different parts of the country, its agricultural and recreational potential and the means by which conflicts between the two can be minimised.	1983/85	Carried out by Rural Planning Services.			
DOE4	Liverpool Garden Festival Assessment	To establish the catchment of the festival, how those attending heard of it, their expectations, the appeal of the festival and the amount spent both at the festival and in the wider area.	1984/85	Carried out by National Opinion Poll (NOP) Ltd.			
Current Rese	earch						
DOE5	Deprivation in Rural Areas	To examine the socio-economic conditions of people in a range of rural areas with different physical, demographic and economic features and assess possible solutions.	1981/83	Carried out by Chelmer Institute of Higher Education. To discover if 'rurality' causes or aggravates deprivation.			
DOE6	Case Studies of Integrated Rural Development in Peak District National Park	To evaluate by experimental trials the application of an integrated programme of rural development in the Peak District National Park.	1981/84	Carried out by the Peak Park Joint Planning Board. Part of European Commission Integrated Rural Development Initiative and co-sponsored with EC, MAFF, NCC, CC, DC, ETB.			
DOE7	Effects of Flow Regime on the Recruitment of Young Stages of Salmonid Fishes	To study the major factors of river flow concerning young stages of salmonids (egg-laying to swim-up fry) in the context of changes of regime brought about by river regulations.	Phase I 1977/81 Phase II 1981/85	Carried out by the Freshwater Biological Association, Should suggest method to minimise damage and/or maximise benefit, Co-sponsored with MAFF, WRC, NERC Science Vote, WA assistance in kind.			

DOE8	Environmental	To provide information as to	1981/87	Carried out by Water
DOES	Standards for Freshwater Fish and Life	toxicity of various fish and inverte- brates in connection with EC Directives.	1981/07	Research Centre, Marlow.
DOE9	Analysis of Natural River Communities	To establish natural groupings of invertebrates in unpolluted rivers in relation to physical and chemical parameters.	Phase I 1979/81 Phase II 1981/84 Phase III 1985/85	Carried out by Freshwater Biological Association, Phase II tests, extends and refines Phase I classification. Cosponsored with NERC Science Vote. Assistance in kind WAs. Phase III will be production of a user manual.
DOE10	Water Resource Implications of Upland Manage- ment	To investigate change in water run-off resulting from afforestation, deforestation and conversion of bracken etc. to pasture.	1981/87	Carried out in Scotland by Institute of Hydrology. Co- sponsored with SDD, WRC, NSHEB, DEn, FC, BWB and NERC Science Vote. Local authority assistance in kind.
DOE!I	Upland Manage- ment with Special Reference to Forestry and Water Quality	To monitor changes in water quality resulting from extensive clear felling and re-afforestation expected in the next 30-50 years.	1981/88	Carried out at a number of sites in England and Wales by Freshwater Biological Association, Windermere with input from Institute of Hydrology and ITE. Co-sponsored with Welsh Office (for work in Wales) and NERC Science Vote.
DOE12	Cladophora (Blanket Weed) In Rivers — Factors causing Excessive Growth,	To study the factors to provide knowledge to limit growth.	1983/85	Carried out by Mid Kent College with assistance in kind from SWA.
DOE13	Rural Analysis of Census Data	To produce an up-to-date definition of urban and rural areas and reanalyse 1981 Census small area statistics; accordingly to show changes in rural areas since 1971.	1983/85	Carried out by Joint Unit for Research on the Urban Environment (JURUE), University of Aston.
DOE14	National Remote Sensing Centre	To continue DOE's contribution to the support of the Centre, Joint Studies with Forestry Commission into providing Woodland statistics.	1983/86	Centre set up by DOI in 1978 with co-sponsorship from other Government departments.
DOE15	Monitoring Land- scape Change	See CC programme for details (CC7).		
DOE16	Operation Ground- work: Making the most of Green- space	To examine methods for reducing the maintenance costs of new land-scapes created through CC Operation Groundwork and to develop a practical manual for use by local authorities and landscape managers.	1983/86	Carried out by Operation Groundwork Trust (see CC5 and CC6 for further details of Operation Groundwork).
DOE17	Low Maintenance Amenity Grassland	To examine cultivars and growth retardants most suitable for grassed areas where there is a need to reduce mowing and maintenance costs.	1983/86	Carried out by STRI.
DOE18	Aboricultural Research	See FC programme for details (FC5).		
DOE19	Tree Roots and Built Development	To assess the effect of a variety of species on soil moisture deficits and control thereof by crown pruning.	1983/85	Carried out by Tree Conservation Ltd.

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DOE20	Acid Rain	To investigate the effects of acid rain on cereal crops, forest canopies, soils and rock.	1983/84	Carried out for NERC (ITE) by the Universities of Aberdeen, Lancaster and Nottingham.
DOE21	Lake and Stream Acidification	To assess the effects of changing acidity of water in the Galloway and Rannoch areas.	1983/88	Carried out by the Freshwater Fisheries Laboratory of the Department of Agriculture and Fisheries for Scotland.
DOE22	Environmental Education	To investigate the use and effective- ness of environmental education techniques.	1984/86	Carried out by the Council for Environmental Education.
DOE23	Environmental Training	To investigate the effectiveness of environmental education and training in industries whose operations are potentially environmentally harmful; and to suggest improvements for rapid dissemination.	1984/87	Carried out by the Council for Environmental Education.
DOE24	Effectiveness of Selected Develop- ment Commission Policies	To assess the contribution of the DC factory programme and CoSIRA small business services towards meeting the Commission's objectives — in particular of strengthening the economy of rural areas.	1985	Carried out by JURUE.
DOE25	European Habitat and Landscape Issues	To assess existing and possible future government policies and attitudes in EC countries concerning agriculture and its effects on habitat and land-scape. Related to this, the nature of environmental pressure groups and the issues they promote.	198 5/8 6	Carried out by Cobham Resource Consultants Ltd and the Institute for Euro- pean Environmental Policy.
Provisionall	y Committed New R	lesearch		
DOE26	Mineral Workings and Amenity Reclamation	To collate and evaluate existing information in order to provide appropriate guidance on requirements on initial restoration and subsequent aftercare where mineral workings are reclaimed for amenity use.	1985/86	Contractor to be decided. Relates to provisions in Town and Country Planning (Minerals) Act 1981 for aftercare of workings.
DOE27	Countryside implications of possible changes in the Common Agricultural Policy (CAP).	To assess the main options for reform of the CAP, the probable response of farmers in England and Wales and the effects on employment, wildlife conservation and landscape.		Contractor to be decided.
DOE28	Effect of Nitrogen Fertiliser on Natural Grassland on West Sedgemoor.	See MAFF programme for details (MAFF30).		

DOE(P) 1	Rural Planning Research Trust (1984), Integrated Rural Development, Radnor/Eden Study.
DOE(P) 2	Dartington Institute (1984), Integrated Rural Development: A study of Bodmin Moor, Dartmoor and
	Exmoor.
DOE(P) 3	Peak Park Joint Planning Board (1984), A Tale of Two Villages.

Contact for enquiries: Chris Blagden, Principal Planning Officer, Directorate of Rural Affairs, Department of the Environment, Room 1121, Tollgate House, Harlton Street, Bristol BS2 9DJ. (0272 218337/218138/218811).

FORESTRY COMMISSION

Research Programme 1985/86

The restriction of funds available for recreation development by the Forestry Commission has curtailed the amount of recreation research being undertaken for the present. The amount of research has also been constrained by a shortage of staff time.

Project Title		Summary of Objectives	Timescale	Comments
Current Rese	earch			
FC1	Development of the Orienteering Map for Wayfaring	To revise the wayfaring map, to improve comprehension by the public and revise techniques for course layout.	1981/85	In-house at FC, Edinburgh. Project nearing completion.
FC2	Midge Control in and around Recreation Facilities	To investigate what effective control measures (if any) of the main biting species of midge are possible at campsites and cabins.	1982/85	Co-sponsored with NERC. Carried out at the Dept, of Zoology, University of Edinburgh, Report due mid 1985.
FC3	The effectiveness of Interpretive Programmes Based on Visitor Centres	To enable visitor centre managers to monitor the effectiveness of existing interpretive programmes.	To mid 1983	Carried out at the Dept. of Psychology, University of Surrey. Publication during 1984/85.
FC4	Census of Trees and Woodlands	To enumerate trees and woodlands over the whole of Great Britain.	To mid 1983	In-house at FC, Edinburgh. County summaries should be completed in early 1985. Aim to publish main report by end 1985.
FC5	Arboricultural Research	To continue a variety of research projects into tree establishment and tree decay to aid the DOE Arboricultural Advisory and Information Service.	1983/86	Co-sponsored with DOE. Carried out in-house at FC Research Station, Alice Holt, Farnham, Surrey.
FC6	Bicycle Routes in Scottish Forests	To identify forest roads and tracks which may be suitable for development as Bicycle Routes or Trails.	1984/85	Carried out by Scottish Railway Path and Cycle Route Project, Report due early 1985.
Tentative Ne	w Proposals			
FC7	Time Spent by Visitors on Activities in the Forest	To survey time forest visitors spend on different activities in the forest, to help improve the design of forest car parks, picnic places and associ- ated recreation facilities.		
FC8	Use of Computer Techniques in Forest Design	To assess the applicability of computer techniques to forest design in GB.		In-house with advice from specialist consultants.
FC9	Forest Interpreta- tion by Artists	To interpret the forest to the public from an artist's point of view.	1984/86	

RESEARCH PUBLICATIONS 1984/85

Recreation Facilities Branch issued no publications in this period. Details of all Forestry Commission research published in 1984/85 will be contained in Forestry Commission Report on Forest Research 1985 HMSO, London.

Contact for enquiries: Duncan Campbell, Principal Forest Officer, Forestry Commission, 231 Corstorphine Road, Edinburgh EH12 7AT, Scotland. (031 - 334 0303).

Detailed information on all woodland and arboricultural projects is available from the Principal Research Communications Officer at FC Research Station, Alice Holt, Farnham. Arboriculture research notes are issued as part of the DOE's Arboricultural Advisory and Information Service.

MINISTRY OF AGRICULTURE, FISHERIES & FOOD

Project Title		Summary of Objectives	Timescale	Comments
Current Research	arch			
MAFFI	Peri-urban agriculture and a resource planning problem in Yorks/ Lancs area.	To identify the problems of periurban agriculture and their causes.	То 1986	
MAFF2	Operation Ground- work Project — Agricultural Survey	To assess the nature and extent of urban fringe problems in the Groundwork area and encourage conservation and landscape improvements and optimum use of farmland.	To 1986	Operation Groundwork sponsored by CC, Full-time MAFF adviser reporting to Farming Advisory Group of Groundwork Trust.
MAFF3	Farm Conflicts and Display Monitoring	To assess the effect of display material on visitors.	To 1987	Related to Operation Groundwork project.
MAFF4	Horses using agricultural land	To ascertain the number of horses using agricultural land in SE Region in order to assess damage to agriculture and conservation and to provide the basis for an assessment of the growth of this type of land use.	1985	
MAFF5	Historic farm buildings study	To increase the awareness of ADAS advisers and the farming community regarding historic farm buildings and methods of safeguarding their future.	To 1986	
MAFF6	Redundant farm buildings in England and Wales	To define nature and scope of present and future problems and opportunities regarding farm buildings that become redundant in agricultural terms.	1985	•
MAFF7	The costs to farmers of meeting planning conditions on farm buildings in National Parks	To evaluate the additional costs to farmers resulting from planning conditions on agricultural buildings in National Parks in Wales.	1985	
MAFF8	Heather moorland change on Exmoor	To examine the relationship between observed changes in heather cover and management factors.	То 1986	
MAFF9	Integrated moor- land management programme, N Yorkshire Moors	To study the effects of large scale hill sheep production; grouse production; conservation; and landscape.	То 1990	Joint project with North Yorkshire Moors National Park, and North of England Grouse Research Project.
MAFF10	Integrated Rural Development Project — Peak Park	See DOE programme for details (DOE6).		
MAFF11	Use of colour infra- red aerial photo- graphy in MAFF Hill and Upland Classification	To assess the usefulness of colour infra-red aerial photography of Dartmoor NP in assigning categories of land to MAFF Hill and Upland Classification.	1985	

MAFF12	Evaluation of simulated spot satellite data for monitoring land use change	To evaluate type and usefulness of data becoming available from SPOT in terms of spatial resolution and spectral characteristics and to evaluate the application of this data for land use monitoring purposes.	1985	
MAFF13	New agricultural landscapes project	See CC programme for details (CC3).		
MAFF14	Conservation Checklist	To develop a conservation checklist to enable ADAS officers to identify semi-natural habitats on farms with possible conservation value.	1985	
MAFF15	Potential integra- tion of farming and forestry in a difficult area of SW England		On-going	Co-sponsored with FC, CC, NERC, and EEC.
MAFF16	Interpretation of existing legislation on the management of hedgerows and its effects on con- servation interests	To consider how SI 1473 is being interpreted in Cumbria with regard to hedges and how it could be better interpreted.	1985	
MAFF17	Hedgerow treat- ment and conserva- tion project on a Wiltshire estate	To research and monitor different types of treatment on overgrown hedges and examine growth and response of different species of newly planted trees in varying ground conditions.	To 1986	
MAFF18	Hedgerow manage- ment and layering trial	To monitor different systems of layering derelict and gappy hedges to assess improvement in stock-proofing and wildlife habitat.	То 1995	
MAFF19	Hedge manage- ment and shaping trial	To monitor the various methods of mechanically trimming hedges to different shapes together with the effects on wildlife.	То 1995	
MAFF20	Hedge and bank maintenance	To examine various methods and materials for repairing banks on Exmoor.	To 1987	
MAFF21	Hedge treatments in the Cotswolds	To compare two methods of hedge laying for effectiveness for stock-proofing and wildlife.	To 1988	
MAFF22	Use of surface mulches for hedge establishment on opencast coal sites	To compare weed control methods on newly planted hedges on restored opencast coal sites.	То 1989	
MAFF23	Shelter belt estab- lishment using trees of 2 m height	To determine whether a smaller number of larger trees can be established for a reasonable cost with minimal aftercare.	То 1988	
MAFF24	Coppice manage- ment of Lancashire woodland for environmental conservation	To improve present levels of management in some woodland areas for farm income and employment generation.	То 2000	

MAFF25	Tree guard trial	To monitor different systems of protecting specimen/individual trees and demonstrate the different types of tree guard.	To 1992	
MAFF26	Tree protection techniques	To assess the advantages/disadvantages of using plastic tree guards on a large scale.	To 1987	
MAFF27	Conservation and wildlife investigations	To provide information on which to base wildlife and landscape conservation advice in farm management.	1983 /8 6	Carried out at Crewe Farm and Eastwood Farm NAC, Stoneleigh and Checkley Brook, Cheshire, Sacrewell Farm, Peterborough.
MAFF28	Drainage improve- ment and wetland conservation	To determine if the integrity of a small wetland community can be maintained in close proximity to agricultural land subject to drainage and other improvements.	To 1988	
MAFF29	Effect of arable water regime on an SSSI	To monitor the future water regime of a recently drained site which attempts to improve agricultural productivity whilst preserving a SSSI.	То 1986	
MAFF30	Effect of nitrogen fertiliser on natural grassland on West Sedgemoor	To determine the effect of nitrogen fertiliser on species composition of natural grassland on West Sedgemoor and to measure agricultural production.	To 1990	Co-sponsored with DOE and NCC.
MAFF31	Under drainage effectiveness when restricted for wild- life conservation	To determine effects on species composition and agricultural production of natural grassland by partially restricting drainage system of peat soils.	To 1990	Combined project with NCC.
MAFF32	Ditch design for wildlife conserva- tion	To examine the feasibility of con- structing berms in deep ditches in peat, and assessing their value for wildlife.	To 1990	Joint project with NCC.
MAFF33	Observational study — biological control of aquatic weeds in lakes and reservoirs using grass carp	To continue observation of reservoirs and to extend observation of weed control by carp.	1985	
MAFF34	National census of small mammals in hedgerows	To provide a standard methodology for studying small mammals in hedgerows and to provide baseline data on species and abundance for evaluation and advisory work.	To 1988	
MAFF35	Wildlife conserva- tion benefits of changes in agricul- tural practices at High Mowthorpe EHF	To evaluate benefits to wildlife of changed management practices and to identify additional practices which would benefit wildlife.	To 1991	
MAFF36	Farm holiday booking study	To investigate background informa- tion on holidaymakers in relation to studying ways of improving effective- ness of advertising.	1985	Pilot study

Land and Water Service (1985), R & D Reports 1983, MAFF.
Central R & D Record Unit (1984), National List of Approved Investigations, MAFF MAFF(P) 1 MAFF(P) 2

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NATURAL ENVIRONMENT RESEARCH COUNCIL

Research Programme 1985/86

The projects listed were current on 1 April 1985. NERC research on topics relevant to recreation and amenity interests is carried out mainly by the Institute of Terrestrial Ecology (ITE), with a smaller programme of work at the Freshwater Biological Association (FBA). Some of this research is commissioned; the source of any outside funding is indicated. NERC also supports work at universities, polytechnics and other organisations, through the award of research grants and studentships. Relevant awards are listed.

Project Title		Summary of Objectives	Timescale	Comments		
Current Res	earch					
1. Freshwater	1. Freshwater Biological Association (FBA)					
NERC1	General ecology of aquatic macrophytes	To study the effects of chemical methods of weed control on the flora and fauna of rivers.	Continuing			
NERC2	Plant management in lowland streams	To develop methods of control by bush or tree planting.				
NERC3	Weedcutting in Dorset rivers	To determine the effectiveness of autumn weed cutting on the River Frome in reducing weed biomass in the subsequent summer.				
NERC4	The ecology of Saprolegniacea with reference to their pathogenicity to fish	To explain how and why salmonid and coarse fish become infected, with a view to improvements in management procedures.				
NERC5	Natural History of freshwater inverte- brates	To study the taxonomy and ecology of freshwater invertebrates and their role as food for fish and indicators of water quality.	Continuing			
NERC6	Long term population dynamics of salmon, trout and other fish in chalk streams	To study the population dynamics of salmon, parr and trout and their relationship with eels.	Continuing	Partly funded by MAFF.		
NERC7	The relationship between feeding and growth in salmonids	To define the relationship between food consumption, metabolism and growth of brown trout fed on natural foods.				
NERC8	Migratory behavi- our of salmon up the River Frome	To conduct routine surveillance to detect long-term trends in the status of salmon populations,				
NERC9	Salmon counting in the Itchen	To advise the Southern Water Authority on suitable counting apparatus.				
NERC10	The role of pike in trout and mixed fisheries	To assess the efficiency of pike culls carried out by a fishing society.				
NERC11	Factors influencing the growth and survival of dace	To establish the range in variation between year class strengths and the association between growth rate, sur- vival and water temperature.				

NERC12	Examination of the effects of trout density on their survival, growth rate and dispersal	To analyse past data and to estimate numbers of trout parr lost from head-streams by dispersal and mortality.		
NERC13	Population dynamics of resident and migratory brown trout	To obtain quantitative information of numbers, biomass, growth rate, mortality, movements and feeding of trout in Lake District. To identify factors affecting these variables with a view to developing models that can be used to predict changes.		
NERC14	The effects of flow regime on the young stages of salmonid fishes	To study experimentally the survival of eggs and embryos in relation to oxygen supply and other factors.		
2. Institute of T	Terrestrial Ecology (IT)	E)		
NERC15	Creating attractive grasslands	To review and quantify the use of wild flower seed in Britain; to establish plots of wild flower mixtures; to assess methods of introducing dicotyledons into existing grass-dominant swards.	To Dec 1987	Work at Monks Wood Experimental Station.
NERC16	Plant species establishment in planted woodland in new towns	To study the natural and assisted colonization of woodland by herbaceous plant species.	To March 1993	Work at Monks Wood Experimental Station.
NERC17	Bracken and heathland studies	To study the longer term effects of management on bracken and heath- land flora, and the ability of bracken to recover on cessation of management.	To April 1990	Work at Monks Wood Experimental Station.
NERC18	Lead poisoning in birds	To determine the effect of lead on birds, with particular reference to swans.	To April 1985	Work at Monks Wood Experimental Station,
NERC19	Creation of butterfly habitats on a landfill site	To increase conditions suitable for butterflies and analyse the results.	To Dec 1986	Work at Monks Wood Experimental Station.
NERC20	Long term studies of vegetation change at Moor House NNR	To monitor long term experiments at Moor House NNR investigating the effects of sheep grazing and burning on upland vegetation.	То 1992	Work at Merlewood Research Station.
NERC21	Monitoring at Stonechest	To estimate the rate and direction of changes in the ecosystem resulting from drainage, game management and woodland management.	To March 1991	Work at Merlewood Research Station.
NERC22	Management of grouse and moor-land	To follow up an experiment to increase grouse numbers in West Scotland by changes in land management and to continue to give advice on grouse management, moorland management and land use.	To April 1987	Work at Banchory Research Station.
NERC23	Habitat require- ments of black grouse	To assess habitats and food of black grouse broods in summer, and flocks in winter.	То 1986	World Pheasant Association contract, Work at Banchory Research Station.
NERC24	Revegetation after disturbance	To assess the ecological consequences of decontamination procedures on Gruinard Island, as a contribution to vegetation management following severe disturbance.	То 1989	CC contract. Work at Bangor Research Station.

NERC25	Studies of sand dune flora in Wales	To assess effects of sand dune vegeta- tion from known grazing and mowing regimes.	To April 1986	Work at Bangor Research Station.
NERC26	Scrub succession at Aston Rowant	To assess the effects of a single treat- ment of rotovation and burning, of continuous grazing and of no treat- ment on the colonisation of chalk grassland by woody plants.	То 1987	Work at Furzebrook Research Station.
NERC27	Restoration of heathland	To monitor the vegetational, faunal and chemical changes in heathland restored on disused ball clay workings.	To Sept 1988	Contract. Work at Furzebrook Research Station.
3. Research St	apported at Universitie	s*		
NERC28	Improvement of rainbow trout and other species	To introduce foreign DNA into the germ cells of rainbow trout with the aim of improving fish for use in both farming and as a wild game species.	May 1983/ April 1985	Research grant. N Maclean, Department of Biology, University of Southampton.
NERC29	Terrain analysis and representation with particular reference to recreational topographic maps		1982/85	Research studentship. MR Cape, Department of Geography, University of Glasgow (JS Keates). CASE award with Ordnance Survey.
NERC30	Boat traffic as a factor in the ecology of freshwater plants		1982/85	Research studentship. J A Leadbeater, Department of Geography, University of Liverpool (J Eaton)
NERC31	Chemosensory mech anisms and taste reception in fish	-	1982/85	Research studentship. C J Humphreys, Department of Zoology, University of Aberdeen (P J Fraser and A M Mackie). CASE award with NERC Institute of Marine Biochemistry.
NERC32	Observation of the activity of pike in Aberdeenshire lochs and rivers		1983/86	Research studentship. J D Armstrong, Department of Zoology, University of Aberdeen (I G Priede).
NERC33	Ecological impact of novel weed management regimes on Ranunculus-dominated streams		1983/86	Research studentship. A M Fox, Department of Agricultural Botany, Univ- sity of Reading (K J Murphy, D F Westlake and M Ladle). CASE award with FBA.
NERC34	Effects of alien crayfish introduction on the native crayfish, Austropotamobius pallipes		1983/86	Research studentship. I D Reeve, Department of Zoology, University of Nottingham (D M Holdich).
NERC35	Population and reproductive biology of bass, Dicentrarchus labrax		1983/86	Research studentship. I Mayer, Department of Zoology, University College Swansea (S E Shackley and M G Pawson). CASE award with MAFF Fisheries Research Laboratory.

^{*}Names of supervisors given in brackets for research studentships.

FBA Publications

- NERC(P) 1 Kipling, C, (1983), Changes in the growth of pike (Esox lucius) in Windermere, J. Anim. Ecol. 52, 647-57.
- NERC(P) 2 Craig, J.F., and Kipling, C., (1983), Reproductive effort versus the environment: case histories of Windermere perch, Perca fluviatilis L. and pike, Esox lucius L., J. Fish. Biol. 22, 713-27.
- NERC(P) 3 Dawson, F H, and Haslam, S M, (1983), The management of river vegetation with particular reference to shading effects of marginal vegetation, Landscape Planning, 10, 147-69.
- NERC(P) 4 Kipling, C, (1983), Changes in the population of pike (Esox lucius) in Windermere from 1944 to 1981, J.Anim. Ecol. 52, 989-99.
- NERC(P) 5 Kipling, C. (1983), Some observations on autumn-spawning charr, Salvelinus alpinus L., in Windermere, 1939-82, J.Fish.Biol. 24, 229-34.
- NERC(P) 6 Berrie, A, (1983), A chalk stream walk, in Discovering the Countryside with David Bellamy: waterside walks (ed D Bellamy) 86-105, Rushden, Country Life Books.

ITE Publications

- NERC(P) 7 Bunce, R G H, (1983), Is climbing killing off Lakeland's plant life? Lakescene, 42, 5, 27-9.
- NERC(P) 8 Davis, B N K, (1983), Plant succession in chalk and ragstone quarries in southeast England, Proc. Croydon Nat. Hist. Scient. Soc., 17, 153-72.
- NERC(P) 9 Davis, B N K, (1983), Wildlife in quarries, Living Countryside, 9, 2074-7.
- NERC(P) 10 Hooper, M.D., (1983), Extensively managed amenity areas, in Plant protection for human welfare. 10th Int. Congr. Plant Protection, Brighton, 1983, 3, 1130-6, Croydon, British Crop Protection Council.
- NERC(P) 11 Hooper, M.D., (1983), Research on ecological aspects of vegetation management, in Management of vegetation (ed J.M. Way), 203-13, Croydon, British Crop Protection Council.
- NERC(P) 12 Lowday, J.E., (1983), Bracken control at Weeting Heath, Tern, 13, 5-6.
- NERC(P) 13 Lowday, J.E., (1983), Bracken control on lowland heaths, in *Heathland management* (ed L. Farrell), 68-77, (Focus on nature conservation no 2), Shrewsbury, Nature Conservancy Council.
- NERC(P) 14 Matrs, R H, (1983), Scrub control on lowland heaths, in *Heathland management* (ed L Farrell), 59-67, (Focus on nature conservation no 2), Shrewsbury, Nature Conservancy Council.
- NERC(P) 15 Satchell, J E, (1982), Recreation, ecology, landscape, Naturopa, 42, 26-8.
- NERC(P) 16 Stebbings, R E, (1983), Legislation to protect bats; a code of conduct for cavers, Bull. Br. Cave Res. Ass. 21, 30-1.
- NERC(P) 17 Watson, A and Moss, R, (1983), Moor care and more grouse, Field, 263, 1308.
- NERC(P) 18 Watson, A and Moss, R, (1983), Scottish grouse, Shooting Times, 4258, 21.
- NERC(P) 19 Watson, A, (1983), Scottish ski development: environmental damage and lessons for the future, Aberdeen Ski Club J., 1983/84, 25-8.
- NERC(P) 20 Watson, A and Watson, R D, (1983), Tourism, land use and rural communities in mountain areas: the Swiss approach and its relevance for Scotland, Aberdeen, Grampian Regional Council.
- NERC(P) 21 Webb, NR, (1983), Management of insects on heathlands, in Heathland management in amenity areas (ed J L Daniels), 30, Cheltenham, Countryside Commission.
- NERC(P) 22 Wells, T C E, (1983), The creation of species-rich grasslands, in *Conservation in perspective* (ed A Warren and F B Goldsmith), 215-32, Chichester, Wiley.

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NATURE CONSERVANCY COUNCIL

Research Programme 1985/86

The projects listed represent a selection from the Council's full research and survey programme.

	-		-	
Project Title		Summary of Objectives	Timescale	Comments
Current Research	arch			
1. Survey				
NCCI	Otter survey of England	To reassess the status and distribution of the otter in England (complementing surveys in Scotland and Wales funded by Vincent Wildlife Trust).	1984/86	University of Exeter.
NCC2	Survey of the Smooth Snake	To assess the status and distribution of the smooth snake.	1984/87	British Herpetological Society.
ИСС3	Status, distribution and ecology of the Warty Newt	To assess the status and distribution of the warty newt and to define this species' habitat requirements.	1983/86	Leicester Polytechnic.
NCC4	Distribution of seabirds at sea	To determine the distribution and abundance of seabirds in the North Sea throughout the year.	1983/86	In-house (supported by Esso, British Petroleum, Shell, DEn and DTp).
NCCS	Invertebrate Site Register	To collect information on the dis- tribution of rare invertebrate species for site selection, evaluation and defence.	1980/88	In-house.
NCC6	Entomological survey by specialists	To survey NNRs, SSSIs and sites of potential conservation importance for their invertebrate fauna.	Renewed annually	Various specialists.
NCC7	Invertebrate survey and classification of rivers for conservation	To survey rivers in England and Wales for the selection of SSSIs.	1983/87	In-house (temporarily suspended).
NCC8	Rare vascular plant surveys	To bring together existing informa- tion on the past and present distribu- tion and abundance of rare vascular plant species in eastern and southern England.	1982/87	University of Cambridge and in-house.
NCC9	Upland vegetation survey	To make a descriptive survey, to select SSSIs and to produce standard upland survey methods.	1981/86	In-house.
NCC10	Inventory of ancient and semi-natural woodlands	To identify ancient and semi-natural woodlands throughout Britain.	1981/88	In-house.
NCC11	Peatland conserva- tion studies	To produce a descriptive classification for British ombrotrophic mires (bogs) to provide a basis for SSSI selection.	1982/85	In-house,
NCC12	Consultancy work on rivers	To provide specialist advice on the evaluation and management of rivers for nature conservation.	1984/87	Dr N T H Holmes.
NCC13	Survey of saltmarshes	To make a descriptive survey of saltmarshes in Great Britain.	1981/85	In-house.

NCC14	Breeding bird survey — saltmarshes	To survey the breeding bird population of British saltmarshes.	1985	Royal Society for the Protection of Birds.
NCC15	Synthesis of salt- marsh survey and management information	To collate the information on British saltmarshes collected under NCC13.	1985/87	In-house.
NCC16	Synoptic survey of saline coastal lagoons	To determine the distribution and status of examples of this threatened habitat and to assess their importance for conservation,	1984/87	Various university-based consultants.
NCC17	Survey of rias, harbours and estu- aries in southern Britain	To survey and appraise these threat- ened sites as a basis for a conservation strategy.	1985/88	Field Studies Council.
NCC18	Survey of proposed Marine Nature Reserves	To complete scientific descriptions, define proposed boundaries and identify management requirements for potential MNRs.	1984/86	In-house, Field Studies Council and others.
NCC19	Marine surveys of Great Britain	To continue the description and evaluation of littoral and sublittoral sites of importance for conservation.	Renewed annually	In-house and various consultants and contractors.
NCC20	Peatland survey — Sutherland and Wester Ross	To survey the peatlands of SW Sutherland and Wester Ross and to produce conservation recommendations.	1985/86	In-house.
NCC21	Survey of fresh- water lochs — Spey Valley and Orkney	To survey the botanical interest of freshwater lochs.	1985/87	In-house and Mr D Robson.
NCC22	Bryophytes Site Register	To identify and evaluate sites of importance for their mosses and liverworts.	1985/87	British Bryological Society.
NCC23	Quinquennial review for Wildlife and Countryside Act 1981	To gather evidence for giving advice to the Secretary of State on the composition of the schedules of protected species.	1985/86	In-house,
NCC24	Survey of aquatic invertebrates on the Gwent Levels	To survey the fauna of ditches on the Gwent Levels to assist in the definition of SSSI boundaries.	1985/86	In-house.
NCC25	Survey of Surrey heathland	To assess the present status of the Surrey heaths, for selection of SSSIs.	1985	In-house.
NCC26	National survey of Badgers	To assess current numbers and dis- tribution of badgers by means of a sample-based survey.	1985/86	University of Bristol,
NCC27	Phase 1 survey of Yorkshire Dales National Park	To map the location and distribution of wildlife habitats throughout the National Park.	1985/86	In-house (jointly funded with Yorkshire Dales NP).
2. Monitoring				
NCC28	Breeding success of rare birds in Britain	To provide information on the breeding success of rare birds.	Renewed annually	Rare Breeding Birds Panel.
NCC29	Monitoring of the Peregrine Falcon in southern Scotland and Cumbria	To assess the status and distribution of the peregrine falcon in southern Scotland and Cumbria.	1977/90	In-house.

NCC30	Lead poisoning in Mute Swans	To monitor the impact of lead poisoning on mute swans, in particular on the River Thames.	1983/88	Edward Grey Institute of Field Ornithology, University of Oxford (funded jointly with RSPB and Water Research Centre).
NCC31	Birds and pollution	To monitor residues of toxic chemicals in birds' tissues and eggs and to study their effects.	1983/86	NERC (Institue of Terrestrial Ecology).
NCC32	Surveillance of cliff-nesting sea- birds in Orkney	To monitor sample plots of breeding kittiwakes, fulmars, guillemots and razorbills on the mainland of Orkney.	1981/85	In-house.
NCC33	Study of seabirds breeding on Skomer NNR	To determine the breeding success and mortality rates of seabirds nesting on Skomer Island.	1984/88	Edward Grey Institute of Field Ornithology, University of Oxford.
NCC34	Services in wild- fowl research	To study the populations, distribution and migration of wildfowl (including the organisation and reporting of the National Wildfowl Counts).	1971/90	Wildfowl Trust.
NCC35	Services in ornithology	Survey, monitoring the provision of a national bird-ringing scheme, analysis of data and the preparation of special reports.	1970/90	British Trust for Ornithology.
NCC36	Butterfly monitoring	To assess the status and distribution of butterflies on NNRs and some other sites.	1981/86	NERC (Institute of Terrestrial Ecology).
NCC37	Biological effects of land-use changes in lowland Scotland	To investigate the effects of land-use changes on the wildlife content of farmland habitats.	1983/86	In-house.
NCC38	National Country- side Monitoring Scheme	To quantify habitat change county by county, by comparison of dated aerial photographs, and to provide a framework for future monitoring.	1983/88	In-house.
NCC39	Biological Records Centre	To collect detailed records of the occurrence of wild plants and animals covered by recording schemes operating throughout the British Isles.	1982/86	NERC (institute of Terrestrial Ecology).
NCC40	Event records system	To establish a computerised data base on administration, management and research on NNRs.	1980/86	In-house.
NCC41	Establishment of a site-related data base	To establish a computerised data base on the location, size and habitats of sites of importance for nature conservation and on related case-work, loss and damage.	1982/85	In-house,
NCC42	Monitoring changes in natural wood- lands	To monitor the development of stand types and associated changes in ground flora in selected unmanaged woodlands.	1985/88	In-house.
3. Habitat Mana	gement			
NCC43	Land-use changes and Golden Eagles in the Highlands	To survey the abundance, distribution and performance of the golden eagle as related to land-use changes in Scotland.	1981/86	In-house.

NCC44	Breeding waders of machair	To monitor the relationship between changing farming practices and populations of breeding waders on machair in the Western Isles.	1985/87	Wader Study Group.
NCC45	Management of woodland for butterflies and other invertebrates	To define the location of the best woodlands for butterflies and other invertebrates and to draw up manage- ment proposals to counteract decline.	1985/88	NERC (Institute of Terrestrial Ecology).
NCC46	Review of butterfly conservation priorities in southern England	To identify the most important butterfly sites in southern England and make proposals for their conservation and management.	1985/87	In-house.
NCC47	Management review of grasslands	To publish a booklet on grassland management for nature conservation.	1985/86	In-house.
NCC48	Sand-dune manage- ment studies	To examine the effects of various levels of grazing on sand-dune vegetation.	1985/88	NERC (Institute of Terrestrial Ecology).
NCC49	Management of lowland wet heaths in south-west Wales	To prepare a report on the management of lowland wet heaths.	1985/86	In-house.
NCC50	Management review of semi- natural woodlands	To describe appropriate management options for semi-natural woodlands with reference to suitable demonstration woods.	1985	In-house.
NCC51	Effects of grazing in upland woods	To provide information and advice on the impact of stock grazing on upland woods.	1985/87	Not yet determined.
NCC52	Survey of rich-fen vegetation (includ- ing Crymlyn Bog)	To assess the effects of nutrient enrichment on fen vegetation.	1985/87	University of Sheffield.
NCC23	Effects of fertiliser application — Somerset Levels	See MAFF programme for details (MAFF30).		
NCC54	Romney Marsh management studies	To assess the impact of various management techniques on ditch flora and fauna and water chemistry.	1985/86	University of Loughborough (funded jointly with Southern Water Authority).
NCC55	Ground-nesting birds of the Somerset Levels	To produce recommendations on meadow management favourable to the breeding requirements of groundnesting birds.	1985/86	Royal Society for the Protection of Birds,
NCC56	Landscape and wildlife conserva- tion on farms	See CCS programme for details (CCS12).		
NCC57	Effects on bufferfly populations of pesticide-free headlands	To assess the effects on butterfly and bumblebee populations of not spraying headlands around cereal fields with agricultural pesticides.	1985/87	Game Conservancy.
NCC58	Study of disused London Docks	To survey the biological interest of the disused docks and to assess their potential for conservation and environmental education.	1985/86	University of Manchester (funded by London Docks Development Corporation).
NCC59	Review of urban nature conserva- tion research	To review research carried out on urban nature conservation.	1985/87	Ecological Parks Trust.

4. Impact Stud	dies			
NCC60	Impact of land drainage on wildlife	To study land-use changes following drainage schemes and to assess their impact on the flora.	1982/86	NERC (Institute of Terrestrial Ecology).
NCC61	Eutrophication problems — Loch Leven	To construct a nitrogen and phosphorus nutrient budget for Loch Leven with a view to rehabilitating its flora and fauna.	1984/87	NERC (Institute of Terrestrial Ecology).
NCC62	Eutrophication problems — Bosherston Lake	To construct a nitrogen and phosphorus nutrient budget for Bosherston Lake, on Stackpole NNR in Pembrokeshire, to assess the effectiveness of a sewage diversion.	1983/86	University College of Swansea.
NCC63	Otters and eel fyke nets	To assess the impact of otter- excluding devices on the fish-catching efficiency of fyke nets and to propose design modifications.	1984/86	Sponsored largely by Vincent Wildlife Trust and World Wildlife Fund.
NCC64	Advice on hydro- logy — Crymlyn Bog, Newham Fen and Sandwich Bay	To monitor the hydrology of the sites and advise on the effects of various management impacts.	1984/90	NERC (Institute of Hydrology).
NCC65	Nutrient budget — Malham Tarn and Esthwaite Water	To examine the effects of eutrophication and of remedial action on water chemistry and flora.	1985/87	Freshwater Biological Association and University of Loughborough.
NCC66	Effects of fluoride on lichens	To collate data on the impact of emissions from Anglesey Aluminium's smelter on lichen communities.	1985/86	NERC (Institute of Terrestrial Ecology).
NCC67	Effects of acidification on lichens	To review the impact of acid deposition on lichens and establish a monitoring programme.	1985/88	British Museum (Natural History).
NCC68	Effects of acidification on freshwater plants and invertebrates	To review the impact of acid deposi- tion on freshwater plants and inverte- brates in Scottish sites and establish a monitoring programme.	1985/87	NERC (Institute of Terrestrial Ecology).
NCC69	Effects of forestry practice on wildlife	To compile a review of the ecological effects of various forestry practices in the North Temperate Zone.	1985/87	Dept. of Forestry, University of Oxford.
NCC70	Hydrology and drainage of mire systems	To study the implications of hydrological changes in mire systems following the cutting of drainage channels and peat extraction.	1985/88	University of Dundee.
NCC71	Saitmarsh and animal studies in the Wash	To review the impacts of reclamation on plant and animal communities in the Wash.	1985/86	In-house, RSPB and Lincoln- shire Trust for Nature Conservation.
NCC72	Invertebrates and waterfowl in the Wash	To investigate the relationship between wintering waterfowl and their invertebrate prey in the Wash in order to predict the effects of reclamation.	1985/88	NERC (Institute of Terrestrial Ecology) (funded jointly with DOE).
NCC73	Impacts of marine fish-farming	To examine the ecological impact of marine fish-farming and establish guidelines for the selection and operation of fish-farming sites.	1985/88	University of Stirling and Scottish Marine Biological Association (principally funded by HIDB).
NCC74	Survey of Poole Harbour	To survey the littoral and sublittoral flora and fauna of Poole Harbour in order to assess the potential impact of oil-related developments.	1984/86	University College of Swansea (funded by British Petroleum).

5. Autecologic	al Studies			
NCC75	Rare vascular plant conservation.	To support the University Botanic Garden, Cambridge, in propagating rare species for use by research workers and for display.	1982/87	University of Cambridge.
NCC76	Ecology and con- servation of bats	To study the autecology of and to provide specialist advice on bats.	1985/88	NERC (Institute of Terrestrial Ecology).
NCC77	Creating attractive grasslands	To investigate and test large-scale techniques for developing attractive grasslands from seed.	1984/87	NERC (Institute of Terrestrial Ecology).
NCC78	Analysis of Rothamsted data on moths	To analyse the long-term findings of the Moth Monitoring Programme.	1985/86	Agricultural and Food Research Council.
NCC79	Whooper Swans and lead in the Ythan Estuary.	To investigate lead poisoning in Whooper Swans from gunshot lead.	1985/87	University of Aberdeen.
NCC80	Cornerakes in the Western Isles	To study the habitat usage and requirements of corncrakes as a basis for protection.	1985/86	Royal Society for the Protection of Birds.
NCC81	Ecology of wood- land fritillary butterflies	To study the autecology of four or five species of fritillary and to test appropriate management techniques.	1985/89	NERC (Institute of Terrestrial Ecology).
6, Socio-Econo	omic Studies			
NCC82	Integrated rural development plan — Peak District National Park.	See DOE programme for details (DOE6).		
NCC83	Jobs and nature conservation	A pilot study to examine the contribution of nature conservation to employment.	1985/86	Dartington Institute.
NCC84	Socio-economic studies in the Culm Measures	See MAFF programme for details (MAFF15).		
NCC85	Social needs for urban wildlife	To develop methods of assessing social needs as a basis for selection and use of urban wildlife sites.	1985/87	Ecological Parks Trust.
NCC86	Incentives for woodland conservation	To assess the impact of current fiscal and grant-aid systems on woodland conservation and to recommend alternative mechanisms.	1985/86	REE Company Consulting (funded jointly with CC and CCS).
7. Miscellaneou	18			
NCC87	Entomological bibliography	To provide an information base to support the Invertebrate Site Register (NCC5).	1985/87	In-house.
NCC88	World checklist of threatened mammals	To update the existing draft check- list for use in connection with the Convention on International Trade in Endangered Species.	1985/86	IUCN Conservation Monitoring Centre.
NCC89	World checklist of threatened birds	To prepare a similar checklist for birds.	1984/88	International Council for Bird Preservation.
NCC90	Reintroduction of Sea Eagles	To reintroduce the white-tailed sea eagle to Scotland from Norway.	1975/86	In-house.

NCC91	British Red Data Books on Inverte- brates	To edit and prepare for publication British Red Data Books on insects and other invertebrates.	.1983/90	In-house.
NCC92	National Vegetation Classification	To provide a complete description and classification of British plant communities for publication by Cambridge University Press.	1976/86	University of Lancaster,
NCC93	Habitat loss	To publish a detailed description of changes in habitat and species distribution and abundance to act as a source of material for others and a critical review of the information available.	1984/86	In-house.

NCC Research Reports Digest (available from the NCC's Information and Library Services, Northminster House, Peterborough PE1 1UA) lists recent technical reports of the Council's commissioned research. The majority of reports are available only in microfiche format.

Contact for enquiries: Dr D R Langslow, Assistant Chief Scientist, Nature Conservancy Council, Northminster House, Peterborough PE1 1UA. (0733 40345).

THE SCOTTISH SPORTS COUNCIL

Project Title		Summary of Objectives	Timescale	Comments
Continuous 1	Research			
SSC1	Planning Data Management Service (PDMS)	To update computerised information for analysis of a range of planning problems.	Continuous	11,000 facility records. Jointly sponsored with STB. Carried out by PDMS, Dept. of Geography, University of Edinburgh.
SSC2	Review of Council Grant Aid	To analyse SSC capital and revenue grants by sport and local authority to guide policy reviews.	Continuous	In-house.
Current Rese	earch			
SSC3	Borders Swimming Pool Study	To aid planning for pools by before and after study of new pools.	1983/85	Surveys conducted by System Three, Scotland. Analysis by System Three/PDMS.
SSC4	Development of Sport in Areas of Special Need	To monitor an SSC comprehensive sports development programme in areas of special need to assess extent of increase in participation.	1983/86	Final phase of surveys undertaken spring 1985; final report and proposals 1985/86. Management in-house; analysis by PDMS.
SSC5	Aspects of Fitness Testing	To review methods and effects of fitness testing.	Oct 1984/ Sept 1986	Centre for Leisure Research. Funded by Health Promotion Research Trust.
SSC6	Monitoring Studies on Council Projects	To assess extent of Council objectives being met; monitoring Avondale Gymnastics Centre; Cockburn Badminton Centre; Pitlochry Recreational Association (air-dome); Castlemilk Bowling Club; McLeod Street Community Centre, Edinburgh; Livingston Sports Barn; Tinwald Tennis (top court).	Jan 1985/ July 1985 (likely)	Reports by John Cook, Leisure Consultant.
SSC7	Sport and Society	To marshal and collect social, economic, demographic, and sports statistics, to inform policy and provide basis for national strategy.	March 1985/ Sept 1985	Data collection and reports by Centre for Leisure Research, Fraser of Allander Institute, Policy Analysis Research Unit (Glasgow College of Tech- nology) and Planning Exchange.
SSC8	Use of Ice-rinks in Contrasting Areas of Scotland	To provide information and planning advice and to calibrate supply/demand model.	March 1985/ Dec 1985 (likely)	Surveys conducted by System Three Scotland, Analysis by System Three/PDMS.
SSC9	Management Information System for Sports Centres and Swimming Pools	To evolve a management information system based on computerised data collection.	April 1985/ April 1987 (likely)	In association with SC (SC2). Details in SSC Information Digest FM2. New phase of rolling programme initiated April 1985.
Committed I	New Research			
SSC10	Analysis of 1983 GHS Leisure Data	See SC programme for details (SC13).		

SSC11	UK Digest of Sports Statistics	To prepare publication incorporating all available information on numbers of clubs, participants in UK sports, facilities et al.	April 1985/ March 1986	Jointly sponsored with SC. Centre for Leisure Research.
SSC12	Use of Leisure Pools	To complete survey work on swimming pools and calibration of supply/demand model.	Autumn 1985/ 1988	To be commissioned.
SSC13	Sports Sponsorship	To assess attitudes to and participation in sports sponsorship by leading Scottish companies.	2-3 months, summer 1985	Update of existing work. Conducted in-house, analysis by PDMS.
SSC14	Sport and Young People	To evaluate second edition of booklet for school leavers.	July 1985/ Aug. 1985	To be commissioned.
SSC15	Effectiveness of Campaign to In- crease Participation in Sport in 13-24 Age Group	To monitor the Ever Thought of Sport? Campaign at the beginning of, and half way through, its 2-year duration.	April 1985/ Nov 1985	Combination of in-house work and consultancy.
SSC16	Distribution of Glenmore Lodge Brochure	To analyse bookings of courses at Glenmore Lodge in relation to distribution of brochure in order to maximise effectiveness of future distribution.	July 1985/ Dec 1985	Combination of in-house work and PDMS.
SSC17	Sport, Physical Recreation, and Young People	To provide a database for sports development policy in relation to this target group.	1985/89	Contracted to Aberdeen University (Dr Leo Henry). Funded by Health Promotion Research Trust.

SSC(P) 1	The Scottish Sports Council (1984), Static Water Skiing Towing Device (Information Digest FP9).
SSC(P) 2	The Scottish Sports Council (2e, 1984), Synthetic Grass, All-Weather Pitch: Inverclyde National Sports
	Training Centre (Information Digest FD9).
SSC(P) 3	The Scottish Sports Council (1984), Main Sports Hall, Flooring System: Inverclyde National Sports Training
	Centre (Information Digest FD11).
SSC(P) 4	The Scottish Sports Council (1984), Wheelchair Trim Track (Information Digest FD12).
SSC(P) 5	The Scottish Sports Council (1984), Golf Practice Area: Inverclyde National Sports Training Centre
	(Information Digest FDI3).
SSC(P) 6	The Scottish Sports Council (1984), Prototype Synthetic Grass Cricket Pitch - The Ams, Alloa
	(Information Digest FD14).

Contact for enquiries: Gillian Shepherd, Head of Information Services, Scottish Sports Council, 1 St Colme Street, Edinburgh EH3 6AA (031 - 225 8411).

SCOTTISH TOURIST BOARD

Project Title		Summary of Objectives	Timescale	Comments
Annual Rese	earch			
STBI	Accommodation Occupancy Survey	To determine occupancy rates in tourist accommodation.	Continuous	Hotel survey runs Jan-Dec. Self-catering and caravan and camping site surveys Apr-Oct. Undertaken by Centre for Leisure Research.
STB2	Survey of Visitor Attractions in Scotland	To obtain information on the number of visitors to a range of attractions in Scotland.	Annual	Retrospective postal survey of the previous year carried out in Jan/Feb. In-house survey and analysis.
STB3	National Survey of Tourism in Scotland (NSTS)	To monitor tourist trips undertaken by British residents in Scotland.	Continuous	Monthly survey of around 2,700 adults. Carried out by Survey Research Associates (SRA).
STB4	International Passenger Survey (secondary analysis)	See BTA/ETB programme for details (BTA/ETB 6).		
STB5	Marketing Follow- up Study	To evaluate the effectiveness of STB promotional campaigns.	Annuai	Various surveys of consumers and the travel trade, Undertaken by NOP Market Research Ltd (NOP), Travel & Tourism Research (TATR) and in-house.
STB6	The Supply of Tourist Accommo- dation in Scotland	To update STB's data on the supply of tourist accommodation.	Annual	Data obtained through STB's scheme for the registration of tourist accommodation. Analysed by Planning Data Management Service (PDMS).
Current Rese	earch			
STB7	Loch Lomond Study	To determine the feasibility of a range of tourism developments at the south end of the Loch.	Jan 1985/ May 1985	Represents Phase 2 of a more general examination of the Loch Lomond area for tourist development.
Tentative Ne	w Proposals			
STB8	Occupancy Survey of Static Caravan Sites.	To extend STB1 to cover large static caravan sites.	Continuous	Provisional dates April 1985 to October 1985.
STB9	Advertising Concepts and Products — Exploratory Research	To explore and test new advertising concepts and products with consumers.	May 1985/ Aug 1985	Mostly qualitative research.
STB10	Classification and Grading of Tourist Accommodation	To measure consumer reaction to the introduction of a classification and grading scheme for caravan parks.	April 1985/ Sept 1985	Household and site surveys.
STBII	Feasibility Studies	To determine the development potential of particular projects.	1985/86	Undertaken in co-operation with other agencies and organisations.

STB(P) 1	Research and Planning Information Handbook (Loose-leaf binder containing factsheets and research summar-
• •	ies, updated on a quarterly basis). 50% discount for educational establishments.

STB(P) 2 Trends in Scottish Hotel Occupancy 1979-83 (June 1984).
STB(P) 3 Trends in Scottish Self-Catering Occupancy: 1979-83 (July 1984).

Contact for enquiries: Tom Costley, Research Manager, Scottish Tourist Board, 23 Ravelston Terrace, Edinburgh, EH4 3EU (031 - 332 - 2433).

THE SPORTS COUNCIL.

Research Programme 1985/86

Sports Council Programme (selected).

Project Title		Summary of Objectives	Timescale	Comments	
Research in Progress					
SCI	Predator/Prey Research	To monitor aquatic anti-predator measures with special reference to Zander species.	1981/84	Jointly sponsored with WSAC, Anglian Water Authority and others. Reports expected 1984 and 1985.	
SC2	Sports Centre Management Information System (MIS) Feasibility	To develop, install and monitor the effectiveness of computerised management information systems in large sports centres.	1 983/86	In association with SSC (SSC9) and Rushcliffe District Council, Nottingham. Second system computers introduced into standardised SASH Sports halls.	
SC3	Sport and Recreation for the Unemployed (Monitoring and Evaluation)	To monitor three Sports Council demonstration programmes in Leicester, Birmingham and Derwentside (Consett).	1981/84	Carried out by S Glyptis, University of Loughborough and David Donkin (Derwent- side Recreation Scheme). Report due spring 1985.	
SC4	Access to the Countryside for for Recreation and Sport	See CC programme for details (CC8).			
SC5	"Action Sport" (Monitoring and Evaluation)	To monitor two major Sports Council inner city sports leadership programmes in London and the West Midlands.	1983/86	Carried out by Policy Studies Institute. Interim Report to SC; Final Report due spring 1985.	
SC6	Land-Based Motor Sports	To study problems of off-road motor sports in two Sports Council regions.	1984/85	Carried out by M Elson, Dept. of Town Planning, Oxford Polytechnic. Case studies in Hants and Lancs. Report due autumn 1985.	
SC7	Participation	Monitor demonstration schemes to increase sports participation. In Phase 1, monitoring Health & Fitness, Liverpool Health Authority; Working Men's Clubs, Cleveland; Women's Institutes, Eastern Region; Women's Motivator, Norwich; Comsport (Action Sport Northampton suburbs and nearby villages); School leavers, Coventry. In Phase 2, monitoring Sports counselling (Southampton); Pub-based programmes (Eastern, SW regions); Sport at the workplace (Leicester).		Monitoring by: Mike Fitzjohn, Malcolm Tungatt, North West Office.	
SC8	UK Sports Research 1983/4	Fourth Register of Sports Research for Council of Europe.		Compiled by J Hardy.	
SC9	Standards for Con- structing and Maintaining Sports Turf	To derive a specification for constructing pitches, base drainage and surface.	1984/88	Sports Turf Research Institute, Bingley.	

SC10	Monitoring Proto- types	To establish prototypes in different microclimates of selected modes of construction.	1984/87	Sports Turf Research Institute, Bingley.
SC11	National Survey of Countryside Recrea- tion 1984	See CC programme for details (CC9).		
SC12	Sports Turf Advice Service	To provide a general advice, information and education service.	1984/87	Sports Turf Research Institute.
SC13	General Household Survey 1983	Analysis of the 1983 Survey including ACORN residential types.	1984/85	Jointly with SSC, CC and CCS.
SC14	Aspects of BMX	To look at market trends and prob- lems and successes in managing BMX.	1984	P Kropp and P Dodd, University of Loughborough. Findings to appear as journal articles.
SC15	Evaluating leisure conferences and exhibitions	Review of attendance at events run over last three years by ten organisations.	1984	J Hardy. See SC(P) 11.
SC16	Loss of community facilities	Identifying facilities at risk from contraction of coal and steel industries and falling school rolls in the East Midlands, and seeking means of obtaining community support.	1985	R Logan.
New Projects	5			
SC17	Public sports programmes for disadvantaged groups	To examine the objectives, methods and marketing of local authority programmes, Phase I for unemployed people.	1985/86	S Glyptis, Loughborough.
SC18	The Economic Impact of Sport	To evaluate the contribution of sport to job and income creation, taxation, and trade (in conjunction with other Council of Europe countries).	1985/86	Not yet decided.
SC19	Improved Public Income Expen- diture data	To see how public income and expenditure data on sport could be improved.	1985/86	Not yet decided.
Sports Coun	cil/Economic and S	ocial Research Council Joint Panel	on Leisure an	d Recreation
SC20	Analysis of People's Concepts of Leisure	To elucidate individuals' conceptualisation of leisure and its meaning in their lives.	1980/83	Carried out by J Stockdale, Dept. of Psychology, London School of Economics. Report to be published 1985.
SC21	Rationale for Public Sector In- vestment in Leisure	To study the development of public policy and institutions in leisure/recreation and implications for the future.	1981/83	Carried out by TRRU, University of Edinburgh, Report due summer 1985.
SC22	Leisure and the Unemployed	To study the lifestyles and leisure behaviour of unemployed people.	1981/83	Carried out by P Kelvin, Dept. of Psychology, Univer- sity College London, Report to be published 1985.
SC23	Perspectives on Leisure Around Retirement	To study changing patterns of leisure activity by a sample of people before and after retirement.	1980/83	Carried out by TRRU, University of Edinburgh, Report to be published 1985.

SC24	Leisure and the Home	To investigate the nature and extent of home-based leisure and the way in which environment, house design, and family/household composition affect leisure behaviour.	1983/85	Carried out by S Glyptis, Dept. of PE and Sports Science, University of Loughborough. Complex sample survey of different house and household types in Nottingham.
SC25	Leisure and Gender	To investigate the social and psychological constraints on adult women's leisure lifestyles and how these are sustained.	1983/85	Carried out by E Green and D Woodward, Dept. of Applied Social Studies, Sheffield City Polytechnic. Interview survey plus ethnographic work.
SC26	The Role of the Voluntary Sector in Leisure Phase II	To investigate the internal dynamics and external relationships of volunary leisure groups.	1983/84	Carried out by J Bishop and P Hoggett, School for Advanced Urban Studies, University of Bristol. Continuation of earlier work. To be published 1985.

SC(P) 1	Shaw, M, (1984), Sport and leisure participation and life-styles in different residential neighbourhoods (with SSRC).
SC(P) 2	Tomlinson, A and M, (1984), Mass Observation Survey: Insights into leisure and culture (with SSRC).
SC(P) 3	Jones, E, (1985), Sport in Space: The implications for sport of satellite and cable TV, Study 25.
SC(P) 4	McIntosh, P and Charlton, V, (1985), Sport for all in the UK 1976-1984 and a way ahead, Study 26.
SC(P) 5	Telling, A, (1985), Public Rights of Navigation, a document for consultation.
SC(P) 6	Smith, R, (1985), Boardsailing: a new sport, Research Working Paper 22.
SC(P) 7	Veal, A J, (1985), People in Sport and Recreation 1980 (with Countryside Commission) (plus leaflet).
SC(P) 8	Centre for Leisure Research (1985), Background to the study of access, Countryside Commission, Cheltenham.
SC(P) 9	Joint Panel on Leisure and Recreation Research (1985), Leisure and social change: a final report, (with
CC(T) 10	ESRC).
SC(P) 10	Hardy, J, and Gregory, S, (1985), Grant-aid to voluntary clubs.
SC(P) 11	Hardy, J, and Collins, M F, (1985), The market for leisure conferences and exhibitions, article syndicated in leisure journals.

Contact for enquiries: M Collins, Sports Council, 16 Upper Woburn Place, London WC1H 0QP (01 - 388 - 1277).

WALES TOURIST BOARD

Project Title		Summary of Objectives	Timescale	Comments
Continuous	Annual Research			
WTB1	British Home Tourism Survey (BHTS)	See BTA/ETB programme for details (BTA/ETB1).		
WTB2	International Passenger Survey (secondary analysis)	See BTA/ETB programme for details (BTA/ETB6).		
WTB3	Welsh Hotel Occupancy Survey	To provide a monthly measure of demand among a representative sample of hotels.	Monthly	Survey undertaken by WTB; regular monthly bulletins and annual report issued to participating hotels, trade associations and other subscribers.
WTB4	Survey of attendance at Visitor Attractions in Wales	To provide an annual measure of attendance at major tourist attractions.	Annual	Postal enquiry by WTB; findings published annually.
Current Res	earch			
WTB5	Dyfed Tourism Investment Study	To develop an overall tourism development and marketing strategy for Dyfed and identify priority projects to be developed in partnership by the public and private sectors.	1984/85	With Dyfed County Council, Welsh Development Agency and Mid Wales Development; consultants' final report to sponsors due April 1985.
WTB6	Barmouth and Environs Tourism Study	As above but Barmouth.	1984/85	With Cyngor Dosbarth Meirionnydd, Barmouth Town Council and Mid Wales Development; consultants' final report to sponsors due April 1985.
WTB7	Severn Valley Tourism Study	As above but Severn Valley.	1985/86	With Powys County Council, Montgomery District Council and Mid Wales Development; commenced February 1985.
WTB8	Study of Holiday and Recreation Demand among Welsh Residents	To provide detailed information on the volume and characteristics of holiday and recreation demand among Welsh residents to supplement BHTS.	1985/86	Ad-hoc household interview survey (1,000 individuals); scheduled to begin April 1985.
WTB9	Surveys of Visitors to Welsh Tourist Attractions	To provide information on the profile and behavioural characteristics of visitors to selected tourist attractions.	1985	Site surveys of (6?) selected attractions to be undertaken July/August 1985.
New Research	ch			
WTB10	Study of the Short Break Market	To assess the current scale and nature of the short break holiday market, and to identify user characteristics and needs.	1985	Study approach under consideration,
WTB11	Study of Farm Tourism Visitors	To assess the characteristics and product needs of farm tourism visitors.	1985	Study approach under consideration.

WIB12	Marketing Effec- tiveness Studies	Series of interlinked studies to evaluate impact and effectiveness of specific WTB marketing initiatives.	1985/86	Programme in preparation.
WTB13	Tourism Manpower Study	To update and refine existing know- ledge of the structure of tourism employment in Wales.	1985/86	Study under consideration.
WTB14	Study of the Social and Cultural Impact of Tourism	To examine and report upon the social and cultural impact of tourism upon host communities, and to make practical recommendations aimed at enhancing, through tourism, Wales' unique cultural, linguistic and social traditions.	1985/86	Study under consideration.

1. Annual Publications

British Home Tourism Survey (1983) (with BTA, ETB, STB). WTB(P) 1

WTB(P) 2 WTB(P) 3 Hotel Occupancy in Wales (1984).

Research Factsheets.

2. Other Publications

WTB(P) 4 Tourism in Wales - A Strategy for Growth.

WTB(P) 5 The Self Catering Sector in Wales.

Contact for enquiries: R Elwyn Owen, Research Services Manager, Brunel House, 2 Fitzalan Road, Cardiff, CF2 1UY. (0222 499909).

WATER AUTHORITIES ASSOCIATION

Project Title		Summary of Objectives	Timescale	Comments
Anglian WA				
WAA1	Ecological survey of the Nene estuary	To make a detailed ecological survey of the Nene estuary and associated area of the Wash and to predict the effect of reductions in residual freshwater flow to the estuary on flora and fauna.	1985/88	Carried out by Alconbury Environmental Consultants and AWA.
WAA2	Ecological survey of the Great Ouse estuary	To make a detailed ecological survey of the Great Ouse estuary and associated area of the Wash and to predict the effect of reductions in freshwater flow to the estuary on fauna and flora.	1982/85	Carried out in association with Hull University and WRC.
WAA3	River Corridor Methodology	To evaluate the NCC Habitat Survey method of assessing the nature conservation value of watercourses.	1985	Carried out by Alconbury Environmental Consultants.
WAA4	The hydrological and hydrogeological mechanism of wet- lands in Norfolk, Suffolk and Cambridge	To help determine the effect of land drainage operations on wetland sites, and thereby to afford better protection for such sites.	1985/86	Co-sponsored with NCC and the Broads Authority and carried out by Birmingham University.
WAA5	Scientific investiga- tions in Broadland	To ascertain the effect of eutrophication and boating on the ecology of the Norfolk Broads.	1 977/90	Extended for further 5 years from 1985.
WAA6	Use of alternatives to lead weights	To determine the success of anglers' voluntary use of lead weight alternatives.	1984/86	Cambridge Division (AWA) internal project.
WAA7	Macrophyte growths in Foxcote Reservoir, Buckinghamshire	The quantification of macrophyte growths following eutrophication control.	1984/85	Carried out by Essex University.
WAA8	Macrophyte growths in Grafham Water, Cambridgeshire	The quantification of macrophyte growths to indicate the ecological damage caused by algal blooms.	1984/85	
WAA9	Stock Assessment	A three-year rolling programme of quantitative fish stock assessment in 5,000 km of rivers and drainage channels, incorporating continuing efforts on the improvement of survey methodology. Project now extended to enclosed waters.	1984/87.	
WAA10	Artificial propagation; stock enhancement	An investigation of factors limiting the quality of river fisheries in the Ely Ouse and its tributary waters and possible means of promoting in-situ fish production with emphasis on the development and assessment of off-river sites for supplementing coarse fish populations including technical development of methods for breeding and rearing coarse fish under artificial and semi-natural conditions.	1985	AWA and University of East Anglia.

Northumbrian	ı WA			
WAAII	Salmon and sea trout — stock assessment	Trapping and counting of upstream migrating salmon and sea trout at Warkworth on the River Coquet has continued.	1984/85	
WAA12	Salmon tagging	Tagging experiments have been carried out to investigate the survival and homing of salmon and sea trout kelts taken from the River Tyne and released after stripping below Kielder Dam.	1984/85	
North West W	'A			
WAA13 _	Re-vegetation of reservoir shore lines	Re-vegetation of eroded reservoir shore lines and establishment of vegetation below top water level. Establishment and monitoring of best plots using traditional and biochemical engineering techniques used in river bank stabilisation. Pilot reservoirs will be: Thirlmere, Haweswater. Stocks, Rivington, Torside and Watergrove.	1985/90	
WAA14 _	Effects of acid run-off on SW Cumbria rivers	Impact of episodic acidification on the fish and invertebrate faunas of the rivers Esk and Duddon.	1985	Funded by DOE.
WAA15	The effects of the grass carp in non-navigable sections of the Lancaster canal	The effects of grass carp on aquatic weed biomass and on the invertebrate fauna and native fish species are being investigated.		Liverpool University project in collaboration with NWWA.
WAA16	Studied of fish populations in the Mersey catchment	Electrofishing surveys are being carried out throughout the Mersey and neighbouring catchments to assess the present status of fish stocks in relation to water quality.	1985	
WAA17 ~	Population survey	Since 1981, extensive surveys of the juvenile salmon and trout populations in the river Lune have been carried out each summer to monitor the effects of the conservation measures on the recruitment of young salmon to the stock.	1981/85	
WAA18	Stock assessment	Annual assessments of the fish stocks in a tributary of the river Derwent, Cumbria, are being carried out to investigate the ecological impact of the releases of stored water from Thirlmere.	1985	
Severn-Trent	WA			
WAA19	Salmon and trout- competition and interaction; habitat study	To study the effects of four rivers of stocked salmon fry upon resident, self-sustaining brown trout, in terms of population density and age structure, biomass and habitat utilisation, and to monitor the invertebrate communities.	1985	

communities.

WAA20	Coarse fish, stock assessment	To monitor catches of coarse fish by anglers in organised competitions on Severn, Trent, Avon and Soar, by postal questionnaires. Information on catch rates and species composition are correlated to water temperature and flow data.	1985	
WAA21	Stillwater trout fisheries	The performance of stillwater trout fisheries, measured as angler catch is being studied with reference to various management strategies.	1985	
WAA22	Fish diseases	Outbreaks of fish diseases occurring in the natural environment are investigated to elucidate the underlying cause, to give advice on fisheries management in order to reduce the risk of further outbreaks.	1985	
Southern WA				
WAA23	Coarse fish rearing	Investigations are continuing into the use of artificial light, heat and hormone injections to induce out-of-season spawning in selected coarse fish species.	1985	
South West WA	4			
WAA24	Studies of fisheries	To study the effect of reservoir construction on the movement and distribution of fish, through surveys before, during, and after construction of the Roadford Reservoir.	1985	
WAA25	Studies of fisheries; Brown trout	The brown trout fishery of the river Otter is being investigated as part of a catchment study in an area of deteriorating water quality, through questionnaires to anglers, and the marking and tagging of stocked fish.	1985	
WAA26	Trout — artificial propagation	Continuing investigations of the effects of cage rearing trout in reservoirs on nutrient budgets, algal blooms and associated water treatment problems.	Continuous	
Thames WA				
WAA27 -	Access to the Countryside	Collaboration with the CC in appointing a Project Officer to prepare a final report on establishing the Thames as a Long Distance Route.	1985	TWA and CC.
WAA28 —	Conservation	Conducting a detailed survey to establish what buildings and equipment in the authority's ownership have a value for industrial archaeology. Conducting surveys of river corridors which are likely to be subject to land drainage works.	1985	
WAA29	Monitoring	To monitor lock traffic on the river Thames; permit sales for bird-watching and fishing at reservoir sites; fish caught at reservoir sites; and the response to advertisements covering directly managed activities.	1985	

Welsh WA				
WAA30	Water recreation: Lower Wye Valley	A survey of riparian owners, recreational users and the potential for conflict resolutions.	1984/85	Sponsored by the WWA, being carried out by Middle- sex Polytechnic.
WAA31	Fish biology: fisheries	Regional acid waters and catchment manipulation studies. To monitor extent and impact of acidification of surface waters in Wales and examine management techniques for ameliora- ting adverse effects.	1984/89	WWA, jointly financed by DOE.
WAA32	Smoltification processes in sea trout	To describe processes of smoltifica- tion in wild and hatchery reared stocks and compare with processes in brown trout.	1984/87	NERC/CASE studentship.
WAA33	Salmon and sea trout — stock assessment	Afon Conwy salmon and sea trout fisheries are being monitored by selective creel census and scale sampling. Catch statistics are being examined in relation to catches on other catchments.	1985/88	Funded by Welsh Office.
WAA34	Salmon - stock assessment :- competition and interaction	The success of salmon (unfed fry) stocking in upland streams is being studied in two catchments with different physical features and resident trout populations.	1985	
WAA35	Sea trout stock assessment	A total of 8 sites were electro- fished on the river Afan in August following the stocking in March 1984 of 119,000 sea trout fry in this industrially polluted river. Survival appeared to be good.	On-going	
WAA3'6	Salmon and sea trout — stock assessment	An ongoing study of salmon and sea trout stocks in the river Rheidol, which historically suffered heavy metal pollution from redundant lead mines.	On-going	
Wessex WA				
WAA37	Salmon and fresh- water fish — effect on migration	Following reports of a decline in freshwater fish species in the river Avon (Hampshire) which might include migratory salmonids, a study of the possible effects arising from in-river fish farms is being undertaken.	1985	
WAA38	Fish population surveys	Freshwater fish population surveys are being undertaken on the river Avon between Christchurch and Salisbury, including census of catches using angler catch returns.	1985	
Yorkshire WA				-
WAA39	Salmon and sea trout — stock assessment	Smolt trapping is continuing on the River Esk in order to provide data on the salmon and sea trout fishery.	1985	
WAA40	Freshwater fish surveys	A rolling 3-year programme of routine fish population surveys is conducted on all major rivers in Yorkshire. These surveys provide baseline data which will enable long term changes in the fisheries to be assessed.	1984/87	

WAA41	Freshwater fish surveys	Electrofishing surveys have been conducted at a series of sites on the river Burn since 1977 to monitor the effectiveness of compensation water releases. These surveys have since been extended to monitor the effects of fish farming and gauging weir construction.	1984/87
WAA42	Coarse fish — stock assessment	To collect data through coarse fish match returns and angling catch data from individual anglers to provide an indication of fish stocks and trends.	1985

Contact for enquiries: E Brazendale, Water Authorities Association, 1 Queen Anne's Gate, London SW1H 9BT. (01-222-8111) or individual Water Authorities.

KEYWORD INDEX TO RESEARCH PROJECTS

Each research project has been allocated a code in the form of the agency acronym followed by a numeral, with the exception of those submitted by the AMA and WAA. Further details of any project can be obtained by referring to the relevant programme as indicated by the acronym.

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(MAFF13), MAFF17-23, MAFF27, MAFF29-31, MAFF35, NCC37-38,

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SOCIO-ECONOMIC IMPACTS and

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