

123km Rivers & Canals Monitored

1,285,100 Fishing Licences Issued

NRA FACTS 1990

26,725 Pollution Incidents Attended

25,240km NRA Controlled Flood Defences

35,955km of Main River

41,961 Navigation Licences Issued

Population Served 50.6m

Geographical Area Served 15,142,064ha



NRA

National Rivers Authority

Guardians of
the Water Environment

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Corporate Planning Section
Corporate Affairs Directorate

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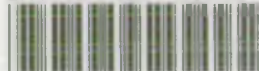
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1. INTRODUCTION

1. INTRODUCTION

1. The National Rivers Authority (NRA) came into being on the 10th July 1989 with the Royal Assent of the 1989 Water Act. It has statutory duties and powers in respect of water resources, pollution control, flood defence, fisheries, recreation, conservation and navigation.
2. Initially it comprised a small Head Office of approximately 50 staff in London with 'shadow' NRA Regional Executives in each Regional Water Authority (RWA) area. On the 1st September, the NRA vesting day, the 10 Regional Executive's became part of the NRA.
3. The NRA is a Non-Departmental Public Body. Its sponsor department is the Department of the Environment (DoE), though it also has important policy links with the Ministry of Agriculture, Fisheries and Food (MAFF) and Welsh Office.
4. The data presented here were collected from the Authority's Regions as part of the preparation of the Authority's first 1989/90 Annual Report and Accounts. Originally it was intended to utilise the information in the Annual Report but because of difficulties validating certain data, only selected information was presented in the first Annual Report. Subsequently additional data for 1989/90 has been added to the original data set from Regions 1991/92 Plans.
5. The purpose of this document is to provide a factual baseline of management information about the NRA's jurisdiction, assets and initial activity during the first year of its existence (1989/90). Comparative data (where available) for 1988/89 are presented to enable comparison with the predecessor RWA's. Some of the fixed assets (eg recreation facilities) show a decrease in numbers between 1988/89 and 1989/90 due to the division of assets between the Water Utility Plcs and the NRA that occurred as a result of the 1989 Water Act.
6. The information contained within this document is for use in future Corporate Plans, Annual Reports, Fact Sheets and other NRA publications, for use by the DoE, MAFF, Welsh Office and other Government departments, and for public and media enquiries.
7. The document is laid out in four main sections:-
 1. Section 1 - General Statistics (pages 6-9)
 2. Section 2 - NRA Fixed Assets (pages 10-16)
 3. Section 3 - Activity, output and performance indicators (pages 17-60)
 4. Section 4 - Glossary of Technical Terms and Definitions (pages 61-68)
8. NRA Regions are deliberately ordered on a north to south basis, to reflect the known changing climatic and geographical features across England and Wales, rather than on an alphabetical basis. A national total is presented for each data set where appropriate.

9. All the data for 1988/89 and 1989/90 is on a financial year basis ie 1st April to 31st March. Some of the data is incomplete and is shown as follows:-
- * not measured in the past by RWA or the NRA or the data was lost during the division of the RWA's into Water Utility Plc's and NRA Regional Units.
 - † Not available because the Region does not have the resources or equipment to undertake its measurement or collection.
 - Ø Total incomplete due to missing data.
10. Whilst the data are considered the best available, certain data sets where there are doubts over accuracy (eg water resources abstraction) will be the subject of further validation and correction in future editions of this document or other publications.
11. A section containing definitions and explanations of specific technical terms and the precise nature of the data is presented at the end of the document. Readers are also referred to 'The Water Act 1989, Text and Commentary' by Richard Macrory published by Sweet and Maxwell, where numerous definitions and interpretations of legal and technical terms are given, note especially pages 258-261.

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2. INDEX OF TABLES

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SECTION 1.

3. GENERAL STATISTICS

SECTION 1.

NRA GENERAL STATISTICS

GEOGRAPHY

Table GS1.

REGION	Geographical Area (ha)	% of Total	Rank	Population (m)	% of Total	Rank
Northumbria	932364	6.16	10	2.6	5.14	8
Yorkshire	1350000	8.92	5	4.5	8.89	5
North West	1444500	9.54	4	6.8	13.44	3
Welsh	2130000	14.07	3	3.1	6.13	7
Severn Trent	2160000	14.26	2	8.3	16.40	2
Anglian	2700000	17.83	1	5.3	10.47	4
Thames	1290000	8.52	6	11.6	22.92	1
Southern	1055000	6.97	8	4.5	8.89	5
Wessex	991800	6.55	9	2.4	4.74	9
South West	1088400	7.19	7	1.5	2.96	10
TOTAL	15142064	100		50.6	100	

RIVERS

Table GS2.

REGION	Length of Main River (Flood Defence) (km)	% of Total	Rank	Length of River/Canal (Water Quality and Fisheries) (km)	% of Total	Rank
Northumbria	1485	4.13	9	2785	6.61	8
Yorkshire	1741	4.84	8	6034	14.32	2
North West	5947	16.54	1	5900	14.01	3
Welsh	5673	15.78	3	4802	11.40	4
Severn Trent	3573	9.94	5	7055	16.75	1
Anglian	5812	16.16	2	4453	10.57	5
Thames	5294	14.72	4	3748	8.90	6
Southern	2748	7.64	6	2010	4.77	10
Wessex	2312	6.43	7	2548	6.05	9
South West	1370	3.81	10	2788	6.62	7
TOTAL	35955	100		42123	100	

FLOOD LIABILITY

Table GS3.

REGION	Area of Flood Plain (ha)	% of Total	Rank	Area of Land Below Sea Level (ha)	% of Total	Rank
Northumbria	14100	1.66	10	1100	.13	10
Yorkshire	112400	13.21	3	85300	10.32	2
North West	94000	11.04	4	68200	8.25	4
Welsh	65038	7.64	7	46705	5.65	6
Severn Trent	60000	7.05	8	79000	9.56	3
Anglian	200000	23.50	1	470000	56.89	1
Thames	69500	8.17	6	6000	.73	8
Southern	124000	14.57	2	9950	1.20	7
Wessex	93900	11.03	5	57600	6.97	5
South West	18180	2.14	9	2350	.28	9
TOTAL	851118	100		826205	100	

GENERAL STATISTICS

ESTUARIES

Table GS4.

REGION	Length of Estuary (Flood Defence) (km)	% of Total	Rank	Length of Estuary (Water Quality and Fisheries) (km)	% of Total	Rank
Northumbria	150	6.31	7	135	5.17	6
Yorkshire	110	4.62	9	103	3.94	9
North West	193	8.11	5	452	17.30	2
Welsh	412	17.32	2	412	15.77	3
Severn Trent	139	5.84	8	77	2.95	10
Anglian	447	18.79	1	480	18.38	1
Thames	193	8.11	5	111	4.25	7
Southern	382	16.06	3	382	14.62	4
Wessex	64	2.69	10	111	4.25	7
South West	289	12.15	4	349	13.36	5
TOTAL	2379	100		2612	100	

COASTLINE

Table GS5.

REGION	Length of Coastline (km)	% of Total	Rank	EC Bathing Waters (No)	% of Total	Rank
Northumbria	193	4.55	7	32	7.96	6
Yorkshire	150	3.54	8	22	5.47	8
North West	432	10.19	5	33	8.21	5
Welsh	1100	25.94	1	48	11.94	3
Severn Trent	37	.87	9	0	.00	10
Anglian	465	10.97	4	28	6.97	7
Thames	0	.00	9	3	.75	9
Southern	898	21.18	2	65	16.17	2
Wessex	265	6.25	6	38	9.45	4
South West	700	16.51	3	133	33.08	1
TOTAL	4240	100		402	100	

COASTAL WATERS

Table GS6.

REGION	Area of Coastal Waters (Water Quality) (ha)	% of Total	Rank	Area of Coastal Waters (Fisheries) (ha)	% of Total	Rank
Northumbria	98600	4.72	8	169850	4.68	8
Yorkshire	115464	5.52	7	211062	5.82	6
North West	171500	8.20	5	267500	7.37	4
Welsh	426330	20.40	2	749830	20.66	2
Severn Trent	7714	.37	10	7714	.21	10
Anglian	281700	13.48	4	425200	11.72	4
Thames	22000	1.05	9	10000	.28	9
Southern	431000	20.62	1	860000	23.70	1
Wessex	156000	7.46	6	210000	5.79	7
South West	380000	18.18	3	717950	19.78	3
TOTAL	2090308	100		3629106	100	

GENERAL STATISTICS

CANALS

Table GS7.

REGION	Canals (No)	% of Total	Rank	Length of Canal (km)	% of Total	Rank
Northumbria	0	.00	9	0	.00	9
Yorkshire	11	14.67	2	296	10.61	3
North West	10	13.33	3	577	20.69	2
Welsh	5	6.67	6	164	5.88	7
Severn Trent	30	40.00	1	990	35.50	1
Anglian	7	9.33	4	197	7.06	6
Thames	6	8.00	5	259	9.29	4
Southern	0	.00	9	0	.00	9
Wessex	2	2.67	8	81	2.90	8
South West	4	5.33	7	225	8.07	5
TOTAL	75	100		2789	100	

WATER SUPPLY RESERVOIRS (>5ha)

Table GS8.

REGION	Reservoirs (No)	% of Total	Rank	Reservoir Area (ha)	% of Total	Rank
Northumbria	26	5.41	4	2760	11.63	4
Yorkshire	118	24.53	2	2234	9.42	6
North West	126	26.20	1	3249	13.70	3
Welsh	112	23.28	3	4630	19.52	1
Severn Trent	23	4.78	5	2603	10.97	5
Anglian	10	2.08	9	3409	14.37	2
Thames	23	4.78	5	1900	8.01	7
Southern	8	1.66	10	787	3.32	10
Wessex	17	3.53	8	820	3.46	9
South West	18	3.74	7	1330	5.61	8
TOTAL	481	100		23722	100	

OTHER RESERVOIRS (>5ha)

Table GS9.

REGION	Reservoirs (No)	% of Total	Rank	Reservoir Area (ha)	% of Total	Rank
Northumbria	28	13.53	3	215	5.26	6
Yorkshire	12	5.80	5	237	5.80	5
North West	79	38.16	1	974	23.82	2
Welsh	28	13.53	3	1551	37.93	1
Severn Trent	38	18.36	2	666	16.29	3
Anglian	9	4.35	6	294	7.19	4
Thames	9	4.35	6	98	2.40	7
Southern	0	.00	10	0	.00	10
Wessex	2	.97	8	15	.37	9
South West	2	.97	8	39	.95	8
TOTAL	207	100		4089	100	

GENERAL STATISTICS

OTHER INLAND WATERS (> 5HA)

Table GS10.

REGION	Inland Waters (No)	% of Total	Rank	Inland Waters Area (ha)	% of Total	Rank
Northumbria	16	1.66	9	262	1.43	8
Yorkshire	31	3.21	6	512	2.79	6
North West	120	12.44	3	6072	33.10	1
Welsh	205	21.24	2	1160	6.32	5
Severn Trent	104	10.78	5	1630	8.89	4
Anglian	120	12.44	3	2579	14.06	3
Thames	320	33.16	1	5700	31.07	2
Southern	0	.00	10	0	.00	10
Wessex	20	2.07	8	130	.71	9
South West	29	3.01	7	300	1.64	7
TOTAL	965	100		18345	100	

SECTION 2.

4. FIXED ASSETS

SECTION 2.

NRA FIXED ASSETS

WATER RESOURCES

PRIMARY MONITORING STATIONS

Table FA1.

REGION	Rainfall (No)		Riverflow (No)		Groundwater (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	166	161	32	34	69	69
Yorkshire	185	186	65	75	480	500
North West	380	380	167	167	0	0
Welsh	338	338	94	94	30	30
Severn Trent	430	430	82	85	0	0
Anglian	415	415	176	176	358	358
Thames	175	185	116	118	0	0
Southern	338	336	79	79	0	0
Wessex	310	275	108	58	6	6
South West	345	343	76	77	0*	100
TOTAL	3082	3049	995	963	943	1063

Note: These figures exclude rainfall, river/tidal/sea level stations operated by Flood Defence Sections.

Table FA2.

RIVER AUGMENTATION SCHEMES (OWNED AND/OR OPERATED)

REGION	Schemes (No)	
	1988/89	1989/90
Northumbria	3	3
Yorkshire	1	1
North West	3	3
Welsh	8	8
Severn Trent	2	2
Anglian	6	7
Thames	1	1
Southern	1	1
Wessex	0	0
South West	0	0
TOTAL	25	26

POLLUTION CONTROL

Table FA3.

AUTOMATIC CONTINUOUS WATER QUALITY MONITORING STATIONS

REGION	Stations (No)	
	1988/89	1989/90
Northumbria	0	0
Yorkshire	2	2
North West	3	3
Welsh	2	1
Severn Trent	16	16
Anglian	26	27
Thames	17	23
Southern	0	0
Wessex	7	7
South West	0	0
TOTAL	73	79

FIXED ASSETS

FLOOD DEFENCE

Table FA4.

GAUGING STATIONS WITH AUTOMATIC FLOOD WARNING DEVICES

REGION	Stations (No)	
	1988/89	1989/90
Northumbria	17	17
Yorkshire	32	31
North West	69	69
Welsh	62	81
Severn Trent	56	56
Anglian	142	142
Thames	76	76
Southern	60	60
Wessex	95	95
South West	35	43
TOTAL	644	670

NRA CONTROLLED FLOOD DEFENCES

Table FA5.

REGION	River (km)		Tidal (km)		Sea (km)		Total (km)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	307.0	307.0	18.8	18.8	7.6	7.6	333.4	333.4
Yorkshire	3441.0	3441.0	179.0	179.0	16.0	16.0	3636.0	3636.0
North West	0*	0†	213.8	213.8	67.8	67.8	281.6	281.6
Welsh	268.8	270.4	100.6	100.5	109.0	109.0	478.4	479.9
Severn Trent	546.0	546.0	220.0	220.0	0*	40.0	766.0	806.0
Anglian	0*	2416.0	0*	939.0	0*	324.0	0*	3679.0
Thames	30.0	30.0	193.0	193.0	.0	.0	223.0	223.0
Southern	191.0	191.0	139.0	139.0	142.0	142.0	472.0	472.0
Wessex	2248.0	2248.0	64.0	64.0	41.0	41.0	2353.0	2353.0
South West	0*	1114.0	0*	289.0	0*	7.1	0*	1410.1
TOTAL	7031.8	10563.4	1128.2	2356.1	383.4	754.5	8543.4	13674

FISHERIES

NRA ROD AND LINE FISHERIES – RIVER

Table FA6.

REGION	River – Salmonid (No)		River – Non-Salmonid (No)		Total River (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	1	1	0	0	1	1
Yorkshire	3	3	27	22	30	25
North West	3	3	1	1	4	4
Welsh	0	0	0	0	0	0
Severn Trent	2	2	10	10	12	12
Anglian	1	1	13	13	14	14
Thames	0	0	0	0	0	0
Southern	0	0	0	0	0	0
Wessex	1	1	15	15	16	16
South West	3	3	0	0	3	3
TOTAL	14	14	66	61	80	75

FIXED ASSETS

NRA ROD AND LINE FISHERIES – STILLWATER

Table FA7.

REGION	Stillwater– Salmonid (No)		Stillwater– Non-Salmonid (No)		Total Stillwater (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	0	0	0	0	0	0
Yorkshire	30	0	27	21	57	21
North West	0	0	1	1	1	1
Welsh	0	0	0	0	0	0
Severn Trent	0	0	0	0	0	0
Anglian	1	1	13	13	14	14
Thames	0	0	0	1	0	1
Southern	0	0	2	2	2	2
Wessex	0	0	1	1	1	1
South West	0	0	0	0	0	0
TOTAL	31	1	44	39	75	40

RECREATION

RECREATION SITES BY REGION

Table FA8.

REGION	Recreation Sites (No)	
	1988/89	1989/90
Northumbria	1	1
Yorkshire	150	55
North West	11	11
Welsh	11	11
Severn Trent	35	35
Anglian	365	365
Thames	48	50
Southern	24	24
Wessex	17	17
South West	10	10
TOTAL	672	579

TYPES OF NRA RECREATION FACILITIES

Table FA9.

FACILITY	Sites Offering Recreation Facilities (No)	
	1988/89	1989/90
Game Fishing	57	32
Nature Trails	10	6
Coarse fishing	252	242
Sailing	25	12
Sail Boarding	13	2
Canoeing	22	18
Rowing	5	4
Horse Riding	17	7
Bird Watching	51	21
Walks and Footpaths	123	63
Water Skiing	4	4
TOTAL	579	411

FIXED ASSETS

TYPES OF NRA RECREATION AMENITIES

Table FA10.

AMENITY	Sites Offering Recreation Amenities (No)	
	1988/89	1989/90
Picnic Sites	27	13
Car Parks	56	38
Toilets	31	26
Disabled Facilities	16	10
Childrens Play Areas	5	1
Information Centres	4	2
Viewing Points	12	2
Fishing Lodges	1	0
Nature Reserve Status	23	23
Country Park Status	1	1
TOTAL	176	116

RECREATION SITE MANAGEMENT SCHEMES AND COLLABORATIVE PROJECTS

Table FA11.

REGION	Site Management Plans (No)		Collaborative Projects (No)	
	1988/89	1989/90	1988/89	1989/90
Northumbria	0	0	0	0
Yorkshire	0	25	0	0
North West	0	1	0	0
Welsh	1	1	2	2
Severn Trent	1	1	10	10
Anglian	365	365	1	3
Thames	6	7	13	22
Southern	2	2	0	1
Wessex	0	0	0	0
South West	0	0	1	0
TOTAL	375	402	27	38

RECREATION FACILITIES – ANGLING

Table FA12.

REGION	Game Angling (No)		Coarse Fishing (No)		Fishing Lodges (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	1	1	0	0	0	0
Yorkshire	29	3	54	44	1	0
North West	2	2	2	2	0	0
Welsh	1	1	0	0	0	0
Severn Trent	1	1	31	31	0	0
Anglian	1	1	108	108	1	1
Thames	18	19	25	25	0	0
Southern	0	0	15	15	0	0
Wessex	1	1	16	16	0	0
South West	3	3	1	1	0	0
TOTAL	57	32	252	242	2	1

FIXED ASSETS

RECREATION FACILITIES – WATER SPORTS

Table FA13.

REGION	Sailing (No)		Sailboarding (No)		Water Skiing (No)		Canoeing (No)		Rowing (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	0	0	0	0	0	0	0	0	0	0
Yorkshire	14	1	10	0	0	0	7	3	1	0
North West	1	1	1	1	0	0	1	1	0	0
Welsh	0	0	0	0	0	0	1	1	0	0
Severn Trent	0	0	0	0	0	0	0	0	0	0
Anglian	4	4	1	1	2	2	3	3	2	2
Thames	1	1	0	0	0	0	4	5	0	0
Southern	3	3	0	0	1	1	1	1	0	0
Wessex	2	2	1	1	0	0	4	4	2	2
South West	0	0	1	0	1	1	1	0	0	0
TOTAL	25	12	14	3	4	4	22	18	5	4

RECREATION FACILITIES – COUNTRYSIDE ACTIVITIES

Table FA14.

REGION	Horse Riding (No)		Nature Trails (No)		Bird Watching (No)		Walks and Footpaths (No)		Childrens Play Areas (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	0	0	0	0	0	0	0	0	0	0
Yorkshire	0	0	4	0	35	5	75	15	4	0
North West	15	5	0	0	2	2	1	1	0	0
Welsh	0	0	0	0	1	1	9	9	0	0
Severn Trent	0	1	0	0	2	2	1	2	0	0
Anglian	0	0	6	6	6	6	0*	0*	0	0
Thames	0	0	0	0	0	0	21	21	0	0
Southern	0	0	0	0	5	5	4	4	0	0
Wessex	0	0	0	0	0	0	13	13	1	1
South West	0	0	0	0	0	0	0	0	0	0
TOTAL	15	6	10	6	51	21	124	65	5	1

RECREATION AMENITIES

Table FA15.

REGION	Car Parks (No)		Picnic Sites (No)		Toilets (No)		Disabled Facilities (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	0	0	0	0	0	0	0	0
Yorkshire	20	2	15	1	6	1	6	0
North West	2	2	2	2	1	1	1	1
Welsh	2	2	0	0	1	1	0	0
Severn Trent	1	1	2	2	0	0	2	2
Anglian	6	6	3	3	0	0	2	2
Thames	3	3	4	4	20	20	2	2
Southern	6	6	0	0	0	0	0	0
Wessex	15	15	0	0	1	1	3	3
South West	1	1	1	1	0	0	0	0
TOTAL	56	38	27	13	29	24	16	10

FIXED ASSETS

RECREATION AMENITIES

Table FA16.

REGION	Information Points (No)		Viewing Points (No)		Country Park Status (No)		Nature Reserve Status (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	0	0	0	0	0	0	0	0
Yorkshire	2	0	10	0	0	0	0	0
North West	0	0	1	1	0	0	0	0
Welsh	0	0	0	0	0	0	3	3
Severn Trent	0	0	0	0	0	0	2	2
Anglian	1	1	0	0	7	7	14	14
Thames	1	1	1	15	1	1	0	4
Southern	1	1	0	0	0	0	5	5
Wessex	0	0	0	0	0	0	0	0
South West	0	0	0	0	0	0	0	0
TOTAL	5	3	12	16	8	8	24	28

CONSERVATION

SITES OF SPECIAL SCIENTIFIC INTEREST

Table FA17.

REGION	River (No)		Estuary (No)		Coastal (No)		Other (No)		Total All Sites (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	0*	8	0*	9	0*	15	0*	53	0*	85
Yorkshire	7	7	1	1	12	12	16	16	36	36
North West	57	57	10	10	8	8	171	171	246	246
Welsh	189	206	27	28	105	111	140	148	461	493
Severn Trent	156	174	11	15	0	0	398	401	565	590
Anglian	37	71	17	13	25	25	154	275	233	384
Thames	73	76	0	0	0	0	6	6	79	82
Southern	52	52	20	20	29	29	13	13	114	114
Wessex	15	18	3	4	6	6	87	87	111	115
South West	0	18	0	11	0	67	0	159	0	255
TOTAL	586	687	89	111	185	273	985	1329	1845	2400

NAVIGATION

NAVIGATION FACILITIES

Table FA18.

REGION	Navigable Waterway Controlled (km)		Lock & Weir Complexes (No)		Sanitary Stations (No)	
	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	0	0	0	0	0	0
Yorkshire	34	34	3	3	0	0
North West	0	0	0	0	0	0
Welsh	12	12	0	0	0	0
Severn Trent	0	0	0	0	4	4
Anglian	507	507	76	76	0	0
Thames	217	217	45	45	41	41
Southern	36	36	0	0	0	0
Wessex	0	0	0	0	0	0
South West	0	0	0	0	0	0
TOTAL	806	806	124	124	45	45

FIXED ASSETS

LEGAL SERVICES

WAYLEAVES & NRA CONTROLLED LAND

Table FA19.

REGION	NRA Controlled Parcels of Land (No)		Wayleaves and Licences in Force (No)	
	1988/89	1989/90	1988/89	1989/90
Northumbria	148	151	2	1
Yorkshire	1007	1045	191	192
North West	0	1600	0	3
Welsh	995	1000	20	16
Severn Trent	500	500	53	53
Anglian	0*	5000	0*	2500
Thames	1668	1680	25	18
Southern	0	670	0	73
Wessex	1656	1678	69	78
South West	0*	146	0*	46
TOTAL	5974	13470	360	2980

FINANCE

1989/90 TANGIBLE ASSETS

Table FA20.

REGION	Non Flood Defence (£m)	Flood Defence (£m)	Total (£m)
Northumbria	2	0	2
Yorkshire	8	13	21
North West	9	8	17
Welsh	10	4	13
Severn Trent	18	13	31
Anglian	33	16	49
Thames	38	157	195
Southern	9	4	13
Wessex	8	10	18
South West	4	3	7
TOTAL	138.3	226.5	364.8

SECTION 3.

5. ACTIVITY, OUTPUT & PERFORMANCE INDICATORS

SECTION 3.

ACTIVITY, OUTPUT & PERFORMANCE INDICATORS

WATER RESOURCES

MONITORING SITES

Table WR1.

REGION	Ground Water (No)		Surface Water (No)		Total (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	120	120	38	40	158	160
Yorkshire	480	500	98	188	578	688
North West	600	600	0#	167	600	767
Welsh	50	50	600	600	650	650
Severn Trent	372	378	600	857	972	1235
Anglian	1157	1157	239	239	1396	1396
Thames	943	968	220	230	1163	1198
Southern	1591	1591	288	288	1879	1879
Wessex	127	127	413	524	540	651
South West	96	100	738	1902	834	2002
TOTAL	5536	5591	3234	5035	8770	10626

RAINFALL

Table WR2.

REGION	Long Term Average (mm)	Average Monthly (mm)		Annual Total (mm)		Over Region (% Average Rainfall) (mm)	
	1941/1970	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	879	69	56	825	668	94	76
Yorkshire	833	62	61	745	732	89	88
North West	1217	97	93	1163	1110	96	91
Welsh	1334	115	105	1384	1262	104	95
Severn Trent	773	55	66	658	789	85	102
Anglian	610	50	50	515	578	84	95
Thames	704	52	63	619	754	88	107
Southern	794	47	62	569	739	72	93
Wessex	869	71	67	849	810	98	93
South West	1194	90	100	1084	1197	91	100
WEIGHTED OVERALL AVERAGE	909	71	72	834	860	90	95

NEW LICENCES DETERMINED WITHIN STATUTORY PERIOD

Table WR3.

REGION	Abstractions (No) 1989/90	Impoundments (No) 1989/90	Total (No) 1989/90
Northumbria	9	0	9
Yorkshire	52	0	52
North West	49	4	53
Welsh	106	20	126
Severn Trent	20	1	21
Anglian	37	3	40
Thames	49	1	50
Southern	11	0	11
Wessex	47	7	54
South West	25	3	28
TOTAL	405	39	444

WATER RESOURCES

ABSTRACTION & IMPOUNDMENT LICENSING

Table WR4.

REGION	Abstraction Licences in Force (No)		Impoundment Licences in Force (No)		Total Licences in Force (No)	
	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	362	367	31	31	393	398
Yorkshire	3697	3750	51	53	3748	3803
North West	3467	3510	44	53	3511	3563
Welsh	4030	4030	127	127	4157	4157
Severn Trent	7591	7544	385	403	7976	7947
Anglian	9600	9700	1000	1000	10600	10700
Thames	3202	3105	70	70	3272	3175
Southern	2700	2715	86	87	2786	2802
Wessex	3388	3390	189	198	3577	3588
South West	7043	7047	183	213	7226	7260
TOTAL	45080	45158	2166	2235	47246	47393

TOTAL LICENCES DETERMINED

Table WR5.

REGION	Abstractions (No) 1989/90	Impoundments (No) 1989/90	Total (No) 1989/90
Northumbria	9	0	9
Yorkshire	103	1	104
North West	74	5	79
Welsh	141	27	168
Severn Trent	74	20	94
Anglian	127	44	171
Thames	53	1	54
Southern	74	3	77
Wessex	44	8	52
South West	37	4	41
TOTAL	736	113	849

LICENSED GROUNDWATER PUMPING STATIONS

Table WR6.

REGION	Public Supply (No)		Industry (No)		Others (No)		Total (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	51	51	68	69	55	56	174	176
Yorkshire	111	113	354	366	1306	1330	1771	1809
North West	308	308	396	396	336	336	1040	1040
Welsh	74	74	2142	2142	58	58	2274	2274
Severn Trent	155	177	506	478	3994	3977	4655	4632
Anglian	280	295	630	635	5690	5735	6600	6665
Thames	304	303	562	548	1778	1780	2644	2631
Southern	262	262	188	189	1027	1035	1477	1486
Wessex	134	133	110	104	690	686	934	923
South West	60	42	127	127	6926	6943	7113	7112
TOTAL	1739	1758	5083	5054	21860	21936	28682	28748

WATER RESOURCES

ABSTRACTION

WATER SUPPLY – AUTHORISED

Table WR7.

REGION	Ground (MI/d)		Surface Tidal (MI/d)		Surface Non-Tidal (MI/d)		Total (MI/d)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	192.0	192.0	.0	.0	3697.0	3697.0	3889.0	3889.0
Yorkshire	416.0	416.0	.0	.0	2004.0	2004.0	2420.0	2420.0
North West	470.0	470.0	.0	.0	2543.0	2543.0	3013.0	3013.0
Welsh	127.0	127.0	.0	.0	3140.0	3140.0	3267.0	3267.0
Severn Trent	1297.0	1409.0	.0	.0	2429.0	2508.0	3726.0	3917.0
Anglian	977.0	998.0	.0	.0	1544.0	1677.0	2521.0	2675.0
Thames	2989.0	2994.0	.0	.0	2150.0	2153.0	5139.0	5147.0
Southern	2497.0	2497.0	.0	.0	738.0	650.0	3235.0	3147.0
Wessex	650.0	641.0	.0	.0	638.0	638.0	1288.0	1279.0
South West	104.0	92.0	.0	.0	1069.0	1061.0	1173.0	1153.0
TOTAL	9719.0	9836.0	.0	.0	19952.0	20071.0	29671.0	29907.0

ABSTRACTION

WATER SUPPLY – ACTUAL

Table WR8.

REGION	Ground (MI/d)		Surface Tidal (MI/d)		Surface Non-Tidal (MI/d)		Total (MI/d)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	86.0	103.0	.0	.0	805.0	1082.0	891.0	1185.0
Yorkshire	215.0	173.0	.0	.0	1478.0	1748.0	1693.0	1921.0
North West	249.0	288.0	.0	.0	1608.0	1642.0	1857.0	1930.0
Welsh	95.0	77.0	.0	.0	2354.0	2275.0	2449.0	2352.0
Severn Trent	953.0	915.0	.0	.0	1603.0	1506.0	2556.0	2421.0
Anglian	782.0	798.0	.0	.0	975.0	1000.0	1757.0	1798.0
Thames	2288.0	0†	.0	.0	1646.0	0†	3934.0	0†
Southern	474.0	584.0	.0	.0	396.0	0*	870.0	584.0
Wessex	390.0	455.0	.0	.0	383.0	382.0	773.0	837.0
South West	0*	0*	0*	0*	0*	0*	0*	0*
TOTAL	5532.0	3393.0	.0	.0	11248.0	9635.0	16780.0	13028.0

ABSTRACTION

INDUSTRY – AUTHORISED

Table WR9.

REGION	Ground (MI/d)		Surface Tidal (MI/d)		Surface Non-Tidal (MI/d)		Total (MI/d)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	41.0	42.0	832.0	832.0	300.0	303.0	1173.0	1177.0
Yorkshire	220.0	225.0	.0†	.0†	815.0	845.0	1035.0	1070.0
North West	398.0	398.0	1498.0	1498.0	1605.0	1605.0	3501.0	3501.0
Welsh	98.0	98.0	.0†	.0†	3231.0	3231.0	3329.0	3329.0
Severn Trent	369.0	365.0	27.0	27.0	921.0	921.0	1317.0	1313.0
Anglian	356.0	360.0	926.0	926.0	138.0	145.0	1420.0	1431.0
Thames	308.0	293.0	2256.0	2193.0	557.0	526.0	3121.0	3012.0
Southern	247.0	274.0	390.0	390.0	717.0	639.0	1354.0	1303.0
Wessex	42.0	42.0	7.0	7.0	140.0	138.0	189.0	187.0
South West	27.0	26.0	3.0	3.0	95.0	101.0	125.0	130.0
TOTAL	2106.0	2123.0	5939.0	5876.0	8519.0	8454.0	16564.0	16453.0

WATER RESOURCES

ABSTRACTION

INDUSTRY – ACTUAL

Table WR10.

REGION	Ground (Ml/d)		Surface Tidal (Ml/d)		Surface Non-Tidal (Ml/d)		Total (Ml/d)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	16.0	17.0	696.0	692.0	54.0	23.0	766.0	732.0
Yorkshire	79.0	70.0	.0	.0	283.0	261.0	362.0	331.0
North West	181.0	186.0	877.0	768.0	1026.0	896.0	2084.0	1850.0
Welsh	29.0	30.0	.0	.0	572.0	536.0	601.0	566.0
Severn Trent	167.0	182.0	21.5	22.0	333.0	260.0	521.5	464.0
Anglian	219.0	230.0	200.0	200.0	51.0	65.0	470.0	495.0
Thames	136.0	0†	347.0	0†	402.0	0†	885.0	0†
Southern	113.0	0*	137.0	0*	31.0	0*	281.0	0*
Wessex	18.0	27.0	2.0	.0	81.0	118.0	101.0	145.0
South West	0*	0*	0*	0*	0*	0*	0*	0*
TOTAL	958.0	742.0	2280.5	1682.0	2833.0	2159.0	6071.5	4583.0

ABSTRACTION

SPRAY IRRIGATION – AUTHORISED

Table WR11.

REGION	Ground (Ml/d)		Surface Tidal (Ml/d)		Surface Non-Tidal (Ml/d)		Total (Ml/d)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	1.0	1.0	.0	.0	17.0	17.0	18.0	18.0
Yorkshire	46.0	49.0	10.0	10.0	43.0	43.0	99.0	102.0
North West	2.0	2.0	.0	.0	15.0	15.0	17.0	17.0
Welsh	2.0	2.0	.0	.0	15.0	15.0	17.0	17.0
Severn Trent	42.0	44.0	6.1	6.1	98.0	101.0	146.1	151.1
Anglian	148.0	152.0	.3	.3	195.0	200.0	343.3	352.3
Thames	14.0	14.0	.0	.0	17.0	17.0	31.0	31.0
Southern	13.5	10.0	.6	.0	35.3	32.1	49.4	42.1
Wessex	4.1	4.2	.0	.0	15.0	13.8	19.1	18.0
South West	2.0	2.0	.0	.0	4.0	4.0	6.0	6.0
TOTAL	274.6	280.2	17.0	16.4	454.3	457.9	745.9	754.5

ABSTRACTION

SPRAY IRRIGATION – ACTUAL

Table WR12.

REGION	Ground (Ml/d)		Surface Tidal (Ml/d)		Surface Non-Tidal (Ml/d)		Total (Ml/d)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	.0	.0	.0	.0	.1	.4	.1	.4
Yorkshire	12.0	20.0	2.0	2.0	8.0	9.0	22.0	31.0
North West	.3	.6	.0	.0	1.2	2.8	1.5	3.4
Welsh	5.0	1.0	.0	.0	9.0	5.0	14.0	6.0
Severn Trent	10.0	25.0	.5	.7	16.0	56.0	26.5	81.7
Anglian	26.0	70.0	.3	.3	31.0	75.0	57.3	145.3
Thames	4.0	0†	.0	.0	2.0	0†	6.0	0†
Southern	2.5	.6	.0	.0	4.6	5.8	7.1	6.4
Wessex	2.3	.0	.0	.0	5.9	.0	8.2	.0
South West	0*	0*	0*	0*	0*	0*	0*	0*
TOTAL	62.1	117.2	2.8	3.0	77.8	154.0	142.7	274.2

WATER RESOURCES

ABSTRACTION

AGRICULTURE (OTHER THAN SPRAY IRRIGATION) – AUTHORISED

Table WR13.

REGION	Ground (Ml/d)		Surface Tidal (Ml/d)		Surface Non-Tidal (Ml/d)		Total (Ml/d)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	1.0	1.0	.0	.0	3.0	3.0	4.0	4.0
Yorkshire	12.0	13.0	.0	.0	6.0	6.0	18.0	19.0
North West	26.0	26.0	.0	.0	97.0	97.0	123.0	123.0
Welsh	13.0	13.0	.0	.0	153.0	153.0	166.0	166.0
Severn Trent	23.0	26.0	.0	.0	5.0	33.0	28.0	59.0
Anglian	43.0	43.0	.0	.0	.7	.7	43.7	43.7
Thames	110.0	110.0	.0	.0	122.0	121.0	232.0	231.0
Southern	380.6	0*	.0	.0	13.9	0*	394.5	0*
Wessex	259.2	261.9	.0	.0	3.3	3.9	262.5	265.8
South West	34.0	39.0	.0	.0	208.0	164.0	242.0	203.0
TOTAL	901.8	532.9 $\emptyset$	.0	.0	611.9	581.6 $\emptyset$	1513.7	1114.5 $\emptyset$

ABSTRACTION

AGRICULTURE (OTHER THAN SPRAY IRRIGATION) – ACTUAL

Table WR14.

REGION	Ground (Ml/d)		Surface Tidal (Ml/d)		Surface Non-Tidal (Ml/d)		Total (Ml/d)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	0*	0*	0*	0*	0*	0*	0*	0*
Yorkshire	6.0	4.0	.0	.0	5.0	3.0	11.0	7.0
North West	7.9	6.3	.0	.0	33.8	33.8	41.7	40.1
Welsh	14.0	11.0	.0	.0	117.0	102.0	131.0	113.0
Severn Trent	8.0	10.0	.0	.0	19.0	14.0	27.0	24.0
Anglian	15.1	15.1	.0	.0	.1	.1	15.2	15.2
Thames	79.0	0†	.0	.0	117.0	0†	196.0	0†
Southern	321.5	0*	.0	.0	.4	0*	321.9	0*
Wessex	155.9	158.8	.0	.0	6.4	4.7	162.3	163.5
South West	0*	0*	0*	0*	0*	0*	0*	0*
TOTAL	607.4 $\emptyset$	205.2 $\emptyset$	.0	.0	298.7 $\emptyset$	157.6 $\emptyset$	906.1 $\emptyset$	362.8 $\emptyset$

ABSTRACTION

POWER UTILITIES – AUTHORISED

Table WR15.

REGION	Ground (Ml/d)		Surface Tidal (Ml/d)		Surface Non-Tidal (Ml/d)		Total (Ml/d)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	.0	.0	8920.0	8920.0	.0	.0	8920.0	8920.0
Yorkshire	.0	.0	1488.0	1488.0	492.0	492.0	1980.0	1980.0
North West	1.0	1.0	7640.0	7640.0	460.0	460.0	8101.0	8101.0
Welsh	4.0	4.0	5858.0	5858.0	16748.0	16748.0	22610.0	22610.0
Severn Trent	.0	.0	.0	.0	3905.0	3909.0	3905.0	3909.0
Anglian	3.0	3.0	2715.0	2715.0	2.3	2.3	2720.3	2720.3
Thames	.0	.0	10702.0	10702.0	1189.0	1189.0	11891.0	11891.0
Southern	5.4	0*	10658.4	10715.0	.0	.0	10663.8	10715.0
Wessex	.0	.0	2453.7	2453.7	.0	.0	2453.7	2453.7
South West	.0	.0	50.0	50.0	249.0	249.0	299.0	299.0
TOTAL	13.4	8.0 $\emptyset$	50485.1	50541.7	23045.3	23049.3	73543.8	73599.0 $\emptyset$

WATER RESOURCES

ABSTRACTION

POWER UTILITIES – ACTUAL

Table WR16

REGION	Ground (Ml/d)		Surface Tidal (Ml/d)		Surface Non-Tidal (Ml/d)		Total (Ml/d)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	.0	.0	4440.0	4440.0	.0	.0	4440.0	4440.0
Yorkshire	.0	.0	700.0	750.0	226.0	269.0	926.0	1019.0
North West	.0	.0	3298.8	5179.2	76.6	55.7	3375.4	5234.9
Welsh	3.0	5.0	847.0	1167.0	7476.0	8042.0	8326.0	9214.0
Severn Trent	.0	.0	.0	.0	3289.0	3004.0	3289.0	3004.0
Anglian	.0	.0	1950.0	1950.0	2.0	2.0	1952.0	1952.0
Thames	.0	0†	954.0	0†	106.0	0†	1060.0	0†
Southern	.0	.0	3565.4	0*	.0	.0	3565.4	0*
Wessex	0*	0*	2038.6	1763.9	.0	.0	2038.6	1763.9
South West	0*	0*	0*	0*	0*	0*	0*	0*
TOTAL	3.0	5.0	17793.8	15250.1	11175.6	11372.7	28972.4	26627.8

ABSTRACTION

OTHER INDUSTRY – AUTHORISED

Table WR17.

REGION	Ground (Ml/d)		Surface Tidal (Ml/d)		Surface Non-Tidal (Ml/d)		Total (Ml/d)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	.0	.0	.0	.0	23.0	23.0	23.0	23.0
Yorkshire	220.0	225.0	.0	.0	751.0	712.0	971.0	937.0
North West	.0†	.0†	.0†	.0†	.0†	.0†	.0†	.0†
Welsh	.0†	.0†	.0†	.0†	.0†	.0†	.0†	.0†
Severn Trent	.0	.0	.0	.0	1703.0	1771.0	1703.0	1771.0
Anglian	356.0	360.0	926.0	926.0	138.0	145.0	1420.0	1431.0
Thames	.0†	.0†	.0†	.0†	.0†	.0†	.0†	.0†
Southern	22.9	8.7	.0	.0	1.3	7.8	24.2	16.5
Wessex	11.5	11.6	.0	.0	6.3	6.9	17.8	18.5
South West	3.0	5.0	.0	.0	1744.0	1741.0	1747.0	1746.0
TOTAL	613.4	610.3	926.0	926.0	4366.6	4406.7	5906.0	5943.0

ABSTRACTION

OTHER INDUSTRY – ACTUAL

Table WR18.

REGION	Ground (Ml/d)		Surface Tidal (Ml/d)		Surface Non-Tidal (Ml/d)		Total (Ml/d)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	.0	.0	.0	.0	9.0	9.0	9.0	9.0
Yorkshire	79.0	70.0	.0	.0	286.0	193.0	365.0	263.0
North West	.0	.0	.0	.0	.0	.0	.0	.0
Welsh	.0	.0	.0	.0	.0	.0	.0	.0
Severn Trent	.0	.0	.0	.0	531.0	460.0	531.0	460.0
Anglian	219.0	230.0	200.0	200.0	51.0	65.0	470.0	495.0
Thames	.0	.0	.0	.0	.0	.0	.0	.0
Southern	0*	0*	.0	.0	0*	0*	0*	0*
Wessex	0*	0*	.0	.0	.0	.0	0*	0*
South West	0*	0*	0*	0*	0*	0*	0*	0*
TOTAL	298.0	300.0	200.0	200.0	877.0	727.0	1375.0	1227.0

WATER RESOURCES

ABSTRACTION

TOTAL AUTHORISED

Table WR19.

REGION	Ground (M/d)		Surface Tidal (M/d)		Surface Non-Tidal (M/d)		Total (M/d)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	235.0	236.0	9752.0	9752.0	4040.0	4043.0	14027.0	14031.0
Yorkshire	914.0	928.0	1498.0	1498.0	4111.0	4102.0	6523.0	6528.0
North West	897.0	897.0	9138.0	9138.0	4720.0	4720.0	14755.0	14755.0
Welsh	244.0	244.0	5858.0	5858.0	23287.0	23287.0	29389.0	29389.0
Severn Trent	1731.0	1844.0	33.1	33.1	9061.0	9243.0	10825.1	11120.1
Anglian	1883.0	1916.0	4567.3	4567.3	2018.0	2170.0	8468.3	8653.3
Thames	3421.0	3411.0	12958.0	12895.0	4035.0	4006.0	20414.0	20312.0
Southern	3166.4	2789.7	11049.0	11105.0	1505.5	1328.9	15720.9	15223.6
Wessex	966.8	960.7	2460.7	2460.7	802.6	800.6	4230.1	4222.0
South West	170.0	164.0	53.0	53.0	3369.0	3320.0	3592.0	3537.0
TOTAL	13628.2	13390.4	57367.1	57360.1	56949.1	57020.5	127944.	127771.0

As this table is compiled from tables WR7,9, 11, 13, 15, 17, which contain incomplete data, the figures should be interpreted with caution.

ABSTRACTION

TOTAL ACTUAL

Table WR20.

REGION	Ground (M/d)		Surface Tidal (M/d)		Surface Non-Tidal (M/d)		Total (M/d)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	102.0	120.0	5136.0	5132.0	868.1	1114.4	6106.1	6366.4
Yorkshire	391.0	337.0	702.0	752.0	2286.0	2483.0	3379.0	3572.0
North West	438.2	480.9	4175.8	5947.2	2745.6	2630.3	7359.6	9058.4
Welsh	146.0	124.0	847.0	1167.0	10528.0	10960.0	11521.0	12251.0
Severn Trent	1138.0	1132.0	22.0	22.7	5791.0	5300.0	6951.0	6454.7
Anglian	1261.1	1343.1	2350.3	2350.3	1110.1	1207.1	4721.5	4900.5
Thames	2507.0	0†	1301.0	0†	2273.0	0†	6081.0	0†
Southern	911.0	584.6	3702.4	.0	432.0	5.8	5045.4	590.4
Wessex	566.2	640.8	2040.6	1763.9	476.3	504.7	3083.1	2909.4
South West	0*	0*	0*	0*	0*	0*	0*	0*
TOTAL	7460.5	4762.4	20277.1	17135.1	26510.1	24205.3	54247.7	46102.8

As this table is compiled from tables WR8,10, 12, 14, 16, 18, which contain incomplete data, the figures should be interpreted with caution.

ENFORCEMENT

Table WR21.

REGION	OFFENCE REPORTS				PROSECUTIONS INITIATED				SUCCESSFUL PROSECUTIONS			
	Abstractions (No)		Impoundments (No)		Abstractions (No)		Impoundments (No)		Abstractions (No)		Impoundments (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	0	10	0	3	0	0	0	0	0	0	0	0
Yorkshire	0*	1	0	0	0*	1	0	0	0*	1	0	0
North West	0*	1	0	0	0*	1	0	0	0*	1	0	0
Welsh	0*	10	0*	1	0*	1	0*	1	0*	1	0*	1
Severn Trent	0*	7	0*	3	0*	7	0*	3	0*	6	0*	2
Anglian	0*	50	0*	4	0*	5	0*	4	0*	5	0*	4
Thames	0	0	0	0	0	0	0	0	0	0	0	0
Southern	0	6	0	0	0*	2	0	0	0*	2	0	0
Wessex	0	0	0	0	0	0	0	0	0	0	0	0
South West	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	85	0	11	0	17	0	8	0	16	0	7

WATER RESOURCES

DROUGHT ORDERS

Table WR22.

REGION	Restrictions On Supply (No)		Permitting Additional Supply (No)		Permitting Reduced Residual/ Compensation Flows (No)		Other (No)		TOTAL (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	0	0	0	0	0	0	0	0	0	0
Yorkshire	0	0	0*	2	0*	8	0	0	0	10
North West	0	0	0*	6	0*	9	0*	3	0	18
Welsh	0	2	0	2	0	8	0	0	0	12
Severn Trent	0*	2	0*	2	0*	3	0	0	0	7
Anglian	0	0	0	0	0*	1	0	0	0	1
Thames	0	0	0	0	0	0	0	0	0	0
Southern	0*	10	3	3	0*	13	0*	2	3	28
Wessex	0	0	0	0	0	0	0	0	0	0
South West	0*	2	0*	11	0	6	0*	1	0	20
TOTAL	0	16	3	26	0	48	0	6	3	96

WATER RESOURCES STAFFING

Table WR23.

REGION	Non-Manual (No)		Manual (No)		Total (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	2.5	7.0	.0	.0	2.5	7.0
Yorkshire	22.0	25.5	.0	.0	22.0	25.5
North West	50.0	53.0	.0	.0	50.0	53.0
Welsh	35.0	48.0	.0	.0	35.0	48.0
Severn Trent	0*	88.0	.0	.0	.0	88.0
Anglian	60.0	82.0	19.0	17.0	79.0	99.0
Thames	0*	74.0	.0	5.0	.0	79.0
Southern	33.0	37.5	.0	.0	33.0	37.5
Wessex	32.0	37.4	.0	.0	32.0	37.4
South West	14.0	46.0	.0	.0	14.0	46.0
TOTAL	248.5	498.4	19.0	22.0	267.5	520.4

POLLUTION CONTROL

CONSENTED DISCHARGES

Table PC1.

REGION	Inland (No)		Coastal (No)		Total (No)		WSPic (No)		Other (No)		Total (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	3488	3488	785	710	4273	4198	2746	2710	1527	1488	4273	4198
Yorkshire	10549	11739	230	250	10779	11989	779	1989	10000	10000	10779	11989
North West	915	847	101	99	1016	946	0	0	0	0	1016	946
Welsh	6232	7094	281	302	6513	7396	1373	1592	5140	5804	6513	7396
Severn Trent	9902	10272	0	0	9902	10272	4836	4977	5066	5295	9902	10272
Anglian	23174	26453	420	434	23594	26887	2534	4177	21060	22710	23594	26887
Thames	4296	4436	204	227	4500	4663	400	410	4100	4253	4500	4663
Southern	0*	0*	0*	0*	688	938	30	375	658	563	688	938
Wessex	7200	8650	400	450	7600	9100	600	1800	7000	7300	7600	9100
South West	0*	8025	0*	1600	0	9625	0*	2740	0*	6885	0	9625
TOTAL	65756	81004	2421	4072	68865	86014	13298	20770	54551	64298	68865	86014

SEWAGE TREATMENT WORKS (CONSENTED)

Table PC2.

REGION	WSPic (No)		Trade (No)		Private (No)		Others (No)		Total (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	181	179	6	6	32	40	0	0	219	225
Yorkshire	360	360	520	520	108	108	0	0	988	988
North West	398	378	0*	0	0	0	0	0	398	378
Welsh	753	729	57	66	127	146	0	0	937	941
Severn Trent	0*	813	0*	0	0*	1007	0	0	0	1820
Anglian	788	710	85	113	59	98	0	0	932	921
Thames	400	410	0*	0*	0*	5986	0	0	400	6396
Southern	273	273	0*	0*	0	0	0	0	273	273
Wessex	272	272	0*	0*	48	48	0	0	320	320
South West	0*	610	0*	0*	0*	110	0	0	0	720
TOTAL	3425	4734	668	705	374	7543	0	0	4467	12982

INDUSTRIAL DISCHARGES

Table PC3.

REGION	Consented Inland (Non-Tidal) (No)		Consented Estuary/Coast (Tidal) (No)		Unconsented (No)		Total (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	295	291	105	105	0	0	400	396
Yorkshire	1800	1850	100	100	0	0	1900	1950
North West	0*	0*	0*	0*	0	0	0	0
Welsh	359	374	2	2	10	10	371	386
Severn Trent	0	2309	0	299	0*	7	0	2615
Anglian	1009	1101	0	0*	0*	0	1009	1101
Thames	350	1515	0	0	0	0	350	1515
Southern	0*	0*	0*	0*	0	0	0*	0*
Wessex	229	229	0	0	0	0	229	229
South West	0*	270	0	0	0	0	0	270
TOTAL	4042	7939	207	506	10	17	4259	8462

POLLUTION CONTROL

WATER QUALITY SAMPLING POINTS (Routine)

Table PC4.

REGION	Ground (No)		River (No)		Estuary (No)		Coastal (No)		Other (No)		Total (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	56	56	358	358	69	69	65	66	400	514	948	1063
Yorkshire	194	194	2683	2683	71	71	22	22	150	150	3120	3120
North West	400	1701	2745	2799	278	293	261	281	0	0	3684	5074
Welsh	114	117	852	852	73	75	158	160	0	0	1197	1204
Severn Trent	0*	650	2031	2031	9	9	0	0	0	0	2040	2690
Anglian	468	432	1170	1150	110	172	50	50	16	16	1814	1820
Thames	0	0	420	450	30	30	0	0	45	123	495	603
Southern	98	100	604	614	176	176	18	18	0	0	896	908
Wessex	35	35	1191	1191	130	130	130	130	0	0	1486	1486
South West	0	0	782	1207	48	88	150	153	0	1995	980	3443
TOTAL	1365	3285	12836	13335	994	1113	854	880	611	2798	16660	21411

BIOLOGICAL SAMPLING POINTS (Routine)

Table PC5.

REGION	River (No)		Estuary (No)		Coastal (No)		Other (No)		Total (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	163	170	0	58	0	0	0	0	163	228
Yorkshire	125	350	5	6	0	0	25	69	155	425
North West	1750	1805	50	50	55	55	0	0	1855	1910
Welsh	1350	1448	92	27	21	0	57	0	1520	1475
Severn Trent	1032	1320	2	2	0	0	105	121	1139	1443
Anglian	1050	1666	129	129	15	15	40	315	1234	2125
Thames	648	866	0*	28	0	0	0	0	648	894
Southern	39	295	25	33	20	20	0	0	84	348
Wessex	200	65	39	39	39	39	0	0	278	143
South West	364	605	0	0	0	0	0	0	364	605
TOTAL	6721	8590	342	372	150	129	227	505	7440	9596

SEWAGE TREATMENT WORKS (SAMPLED)

Table PC6.

REGION	WSPic (No)		Trade (No)		Private (No)		Others (No)		Total (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	181	179	1	1	18	24	0	0	200	204
Yorkshire	360	360	520	520	108	108	0	0	988	988
North West	439	378	0*	0*	35	35	0	0	474	413
Welsh	753	729	57	66	127	146	0	0	937	941
Severn Trent	0*	786	0*	1023	0*	441	0	0	0	2250
Anglian	788	710	85	113	59	98	0	0	932	921
Thames	400	410	0	0	522	376	0	0	922	786
Southern	273	273	127	127	165	165	0	0	565	565
Wessex	340	340	0	0	48	48	0	0	388	388
South West	0*	384	0	0	0*	110	0	0	0	494
TOTAL	3534	4549	790	1850	1082	1551	0	0	5406	7950

POLLUTION CONTROL

WSPIC COMPLIANT DISCHARGES

Table PC7.

REGION	Consented (No)		Sampled (No)		Compliant (No)	
	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	181	179	181	179	157	167
Yorkshire	346	346	346	346	298	317
North West	439	378	439	378	397	363
Welsh	753	729	753	729	407	533
Severn Trent	810	813	785	786	689	753
Anglian	788	710	788	710	577	613
Thames	400	410	400	410	350	388
Southern	463	463	463	463	280	288
Wessex	272	272	272	272	258	260
South West	0*	610	0*	384	0*	313
TOTAL	4452	4910	4427	4657	3413	3995

SAMPLES AND DETERMINANDS

Table PC8.

REGION	River (No)		Estuary (No)		Coastal (No)		Ground/Enclosed Waters (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	3315	3422	414	1884	43	229	228	61
Yorkshire	10135	10922	91	295	305	305	144	161
North West	9780	10250	285	410	240	298	32	40
Welsh	9283	12797	611	272	1342	580	264	314
Severn Trent	19000	19868	700	700	0	0	0†	0†
Anglian	13850	11600	3050	2000	680	580	150	150
Thames	7533	10548	1200	1200	0	0	12	14
Southern	13840	8935	602	1532	1042	2774	0	0
Wessex	13227	16021	1142	1286	381	429	12	24
South West	8308	10285	554	655	2812	2872	5	968
TOTAL	108271	114648	8649	10234	6845	8067	847	1732

SAMPLES AND DETERMINANDS

Table PC8.

REGION	Effluents (No)		Total Samples Taken (No)		Total Determinands (No)	
	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	3741	3913	7741	9509	70485	76065
Yorkshire	10363	12592	21038	24275	368932	349484
North West	10764	4846	21101	15844	300000	300000
Welsh	10039	10422	21539	24385	967369	784650
Severn Trent	0*	30265	19700	50833	0*	640000
Anglian	23000	18650	40730	32980	400000	400000
Thames	9000	10000	17745	21762	254000	275000
Southern	9633	10275	25117	23516	282000	276400
Wessex	8717	9124	23479	26884	360069	369879
South West	3500	9619	15179	24399	318759	760799
TOTAL	88757	119706	213369	254387	3321614	4232277

POLLUTION CONTROL

POLLUTION INCIDENTS

Table PC9.

REGION	Incidents (No)		Serious Incidents (No)		Successful Prosecutions (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	695	792	23	41	2	5
Yorkshire	2125	2464	230	180	25	34
North West	3664	3478	729	525	45	47
Welsh	2275	1814	139	245	62	54
Severn Trent	5282	6004	686	805	40	35
Anglian	1441	1731	94	102	17	18
Thames	3045	3573	1047	660	25	10
Southern	1581	1760	34	40	10	12
Wessex	1776	2521	73	149	22	44
South West	2666	2588	538	506	59	50
TOTAL	24550	26725	3593	3253	307	309

POLLUTION INCIDENTS - TYPES

Table PC10.

REGION	Industrial Chemicals (No)		Organic Industrial Wastes (No)		Agricultural Pesticides Fertilisers (No)		Organic Farm Wastes (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	66	85	0*	0*	1	6	79	51
Yorkshire	190	219	200	247	4	1	336	261
North West	260	217	75	84	6	4	628	462
Welsh	282	206	71	51	18	19	564	273
Severn Trent	567	642	181	6	0*	12	582	280
Anglian	108	121	79	74	20	29	173	153
Thames	269	359	0	0	29	24	184	145
Southern	0*	0*	0*	0*	3	3	141	110
Wessex	41	34	2	0	7	7	446	353
South West	27	26	200	210	14	7	720	656
TOTAL	1810	1909	808	672	102	112	3853	2744

POLLUTION INCIDENTS - TYPES

Table PC10.

REGION	Oils/ Related Products (No)		Sewage STW (No)		Sewage Other (No)		Other Miscellaneous (No)		Total All Types (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	135	155	43	45	230	290	141	160	695	792
Yorkshire	324	356	153	215	343	488	575	677	2125	2464
North West	509	540	820	695	0	0	1366	1476	3664	3478
Welsh	197	218	327	277	249	297	567	473	2275	1814
Severn Trent	1300	1774	99	571	955	239	1598	2480	5282	6004
Anglian	474	582	199	253	198	252	190	267	1441	1731
Thames	1133	1257	119	185	439	541	872	1062	3045	3573
Southern	443	505	238	310	110	144	646	688	1581	1760
Wessex	144	133	29	30	168	936	939	1028	1776	2521
South West	257	330	240	301	239	302	969	756	2666	2588
TOTAL	4916	5850	2267	2882	2931	3489	7863	9067	24550	26725

POLLUTION CONTROL

SERIOUS INCIDENT – TYPES

Table PC11.

REGION	Industrial Chemicals (No)		Organic Industrial Wastes (No)		Agricultural Pesticides Fertilisers (No)		Organic Farm Wastes (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	5	9	0*	0*	0	4	12	3
Yorkshire	30	19	32	20	0	0	42	21
North West	69	48	22	15	0	0	193	83
Welsh	46	48	11	12	0	0	57	49
Severn Trent	0*	101	0*	1	0*	5	0*	111
Anglian	5	6	4	4	5	1	25	21
Thames	108	72	0	0	9	9	115	47
Southern	4	1	0*	4	0	0	8	9
Wessex	6	12	2	0	0	0	53	92
South West	6	11	46	32	9	0*	261	166
TOTAL	279	327	117	88	23	19	766	602

SERIOUS INCIDENT – TYPES

Table PC11.

REGION	Oils/Related Products (No)		Sewage STW (No)		Sewage Other (No)		Other Miscellaneous (No)		Total All Types (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	2	10	0	1	2	6	2	8	23	41
Yorkshire	32	23	15	18	53	52	26	27	230	180
North West	137	87	182	178	0	0	126	114	729	525
Welsh	12	11	2	43	1	30	10	52	139	245
Severn Trent	0*	242	0*	106	0*	19	0*	220	686	805
Anglian	25	30	10	13	10	13	10	14	94	102
Thames	337	193	79	67	225	133	174	139	1047	660
Southern	7	13	5	3	8	4	2	6	34	40
Wessex	7	19	1	10	2	5	2	11	73	149
South West	62	53	63	86	33	56	58	102	538	506
TOTAL	621	681	357	525	334	318	410	693	3593	3253

SUCCESSFUL PROSECUTIONS – BY DIFFERENT TYPES OF POLLUTION

Table PC12.

REGION	Industrial Chemicals (No)		Organic Industrial Wastes (No)		Agricultural Pesticides Fertilisers (No)		Organic Farm Wastes (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	0	2	0	0	0	0	2	3
Yorkshire	7	10	7	11	0	0	9	8
North West	6	21	4	2	0	0	22	14
Welsh	8	10	2	2	0	0	32	21
Severn Trent	20	11	5	2	5	1	5	15
Anglian	0*	3	3	1	0	0	11	14
Thames	1	3	1	0	0	0	18	2
Southern	0	0	0	0	0	0	5	6
Wessex	3	7	1	3	0	0	17	31
South West	3	4	3	2	1	0*	49	37
TOTAL	48	71	26	23	6	1	170	151

POLLUTION CONTROL

SUCCESSFUL PROSECUTIONS – BY DIFFERENT TYPES OF POLLUTION

Table PC12.

REGION	Oils/Related Products (No)		Sewage STW (No)		Sewage Other (No)		Other Miscellaneous (No)		Total All Types (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	0	0	0	0	0	0	0	0	2	5
Yorkshire	2	5	0	0	0	0	0	0	25	34
North West	2	5	5	2	0	0	6	3	45	47
Welsh	1	0	0*	2	0	0	19	19	62	54
Severn Trent	0	6	0	0	0	0	0	0	40	35
Anglian	3	0	0	0	0	0	0	0	17	18
Thames	2	5	3	0	0	0	0	0	25	10
Southern	0	0	0	0	0	0	5	6	10	12
Wessex	0	3	0	0	1	0	0	0	22	44
South West	2	3	0*	1	0	1	1	2	59	50
TOTAL	12	27	8	5	1	1	31	30	307	309

NRA ENFORCEMENT POLICY

Table PC13.

REGION	Number of Incidents Infringing			Number of Successful Prosecutions			Total Fines (£)	
	Cat 1 (No)	Cat 2 (No)	Cat 3 (No)	Cat 1 (No)	Cat 2 (No)	Cat 3 (No)	88/89	89/90
	89/90	89/90	89/90	89/90	89/90	89/90		
Northumbria	23	531	238	4	1	0	1050	4250
Yorkshire	180	2284	0	16	18	0	0*	40025
North West	3	522	2953	3	44	0	29200	1041750
Welsh	33	212	1569	32	22	0	38760	59155
Severn Trent	147	3231	0	35	0†	0†	11400	36400
Anglian	15	87	1629	15	3	0	12650	25250
Thames	51	609	2913	10	0	0	10650	11150
Southern	12	233	1303	2	10	0	1300	5150
Wessex	22	1292	749	9	35	0	12750	29990
South West	36	471	2073	38	12	0	20285	19960
TOTAL	522	9472	13427	164	145	0	138045	1273080

WARNING LETTERS SENT

Table PC14.

REGION	Category 1 (No)		Category 2 (No)		Category 3 (No)		Total (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	0*	13	0*	24	0*	0*	0	37
Yorkshire	0*	10	0*	15	0*	0	0*	25
North West	0*	0	0*	0	41	47	41	47
Welsh	9	1	10	12	1	3	20	16
Severn Trent	0*	70	0*	0†	0*	0†	0	70
Anglian	0*	0	0*	0	0*	0	0*	0
Thames	0	0	0	0	0	0	0	0
Southern	0*	0	0*	0	0*	0	0	0
Wessex	0*	0	5	12	28	37	33	49
South West	0*	0	0*	0	0*	0	0	0
TOTAL	9	94	15	63	70	87	94	244

POLLUTION CONTROL

INFRINGEMENTS TAKEN TO COURT

Table PC15.

REGION	Category 1 (No)		Category 2 (No)		Category 3 (No)		Total (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	2	4	0	1	0	0	2	5
Yorkshire	18	30	5	4	0	0	23	34
North West	0	3	48	45	0	0	48	48
Welsh	31	32	34	23	0	0	65	55
Severn Trent	40	35	0*	0†	0*	0†	40	35
Anglian	15	15	2	3	0	0	17	18
Thames	25	10	0	0	0	0	25	10
Southern	1	1	4	5	0	0	5	6
Wessex	1	9	22	36	0	0	23	45
South West	55	34	0	9	0	0	55	43
TOTAL	188	173	115	126	0	0	303	299

SUCCESSFUL PROSECUTIONS - BY POLLUTION CATEGORY

Table PC16.

REGION	Category 1 (No)		Category 2 (No)		Category 3 (No)		Total (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	2	4	0	1	0	0	2	5
Yorkshire	18	30	7	4	0	0	25	34
North West	0	3	45	44	0	0	45	47
Welsh	30	32	32	22	0	0	62	54
Severn Trent	40	35	0*	0†	0*	0†	40	35
Anglian	15	15	2	3	0	0	17	18
Thames	25	10	0	0	0	0	25	10
Southern	2	2	8	10	0	0	10	12
Wessex	1	9	21	35	0	0	22	44
South West	55	38	4	12	0	0	59	50
TOTAL	188	178	119	131	0	0	307	309

TOTAL FINES

Table PC17.

REGION	Category 1 (£)		Category 2 (£)		Total (£)	
	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	1050	3250	0	1000	1050	4250
Yorkshire	0*	20800	0*	19225	0*	40025
North West	0	1001000	29200	40750	29200	1041750
Welsh	25240	46530	13520	12625	38760	59155
Severn Trent	11400	36400	0†	0†	11400	36400
Anglian	12650	25250	0*	0*	12650	25250
Thames	10650	11150	0	0	10650	11150
Southern	0*	0*	0*	0*	1300	5150
Wessex	1750	12000	11000	17990	12750	29990
South West	10142	17910	10143	2050	20285	19960
TOTAL	72882	1174290	63863	93640	138045	1273080

POLLUTION CONTROL

MINIMUM, AVERAGE, MAXIMUM AND TOTAL FINES

CATEGORY 1

Table PC18.

REGION	Minimum (£)		Average (£)		Maximum (£)		Total Fines (£)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	300	500	525	812	750	1000	1050	3250
Yorkshire	0	0	0	693	0	3000	0*	20800
North West	0	500	0	333667	0	1000000	0	1001000
Welsh	200	200	841	1454	3000	10000	25240	46530
Severn Trent	0	300	285	1040	0	2000	11400	36400
Anglian	250	250	843	1683	1500	10000	12650	25250
Thames	50	50	426	1115	1500	2000	10650	11150
Southern	0*	0*	0*	0*	0*	0*	0*	0*
Wessex	1750	750	1750	1333	1750	2000	1750	12000
South West	0*	100	0*	527	0*	2000	0*	17910
AVERAGE FINES	510	331	337	38036	1700	114667	62740	1174290

MINIMUM, AVERAGE, MAXIMUM AND TOTAL FINES

CATEGORY 2

Table PC19.

REGION	Minimum (£)		Average (£)		Maximum (£)		Total Fines (£)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	0	1000	0	1000	0	1000	0	1000
Yorkshire	0	75	0	4806	0	3000	0*	19225
North West	200	100	649	926	2000	2000	29200	40750
Welsh	100	150	423	574	1200	1500	13520	12625
Severn Trent	0*	0*	0*	0*	0*	0*	0†	0†
Anglian	0*	0*	0*	0*	0*	0*	0*	0*
Thames	0	0	0	0	0	0	0	0
Southern	0*	0*	0*	0*	0*	0*	0*	0*
Wessex	100	100	524	514	1500	1000	11000	17990
South West	0*	0	0*	228	0*	500	0*	2050
AVERAGE FINES	133	285	493	1341	1567	1500	53720	93640

RIVER AND CANAL WATER QUALITY

Table PC20.

REGION	Good Class 1A (km)		Good Class 1B (km)		Fair Class 2 (km)		Poor Class 3 (km)		Bad Class 4 (km)		Total Monitored (km)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	1730	1730	722	722	284	284	44	44	5	5	2785	2785
Yorkshire	2261	2267	2141	2114	839	860	645	641	148	152	6034	6034
North West	2601	2442	782	829	1336	1463	913	921	268	245	5900	5900
Welsh	2739	2407	1105	1456	606	663	311	255	41	21	4802	4802
Severn Trent	893	893	2595	2574	2487	2493	622	629	82	89	6679	6678
Anglian	360	360	2197	2192	1526	1543	352	333	18	25	4453	4453
Thames	1330	1592	1490	1473	780	597	205	169	0	0	3805	3831
Southern	565	545	1052	731	413	656	124	187	7	18	2161	2137
Wessex	600	600	791	782	775	784	90	90	19	19	2275	2275
South West	513	420	896	998	872	1002	285	330	33	37	2599	2788
TOTAL	13592	13256	13771	13871	9918	10345	3591	3599	621	611	41493	41683

POLLUTION CONTROL

ESTUARIAL WATER QUALITY

Table PC21.

REGION	Good Class A (km)		Fair Class B (km)		Poor Class C (km)		Bad Class D (km)		Total All Classes (km)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	51	51	47	47	21	21	16	16	135	135
Yorkshire	49	49	36	36	18	18	0	0	103	103
North West	221	221	102	102	60	60	69	69	452	452
Welsh	316	316	88	88	8	8	0	0	412	412
Severn Trent	18	18	46	46	13	13	0	0	77	77
Anglian	317	317	124	124	36	36	2	2	479	479
Thames	49	49	62	62	0	0	0	0	111	111
Southern	317	317	52	52	13	13	0	0	382	382
Wessex	43	43	65	65	3	3	0	0	111	111
South West	324	324	25	25	0	0	0	0	349	349
TOTAL	1705	1705	647	647	172	172	87	87	2611	2611

BATHING WATER QUALITY

Table PC22.

REGION	Number of Beaches Complying with EC Directive				Total	
	Pass (No)		Fail (No)		(No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	9	20	10	12	19	32
Yorkshire	21	18	1	4	22	22
North West	6	11	27	22	33	33
Welsh	37	40	11	8	48	48
Severn Trent	0	0	0	0	0	0
Anglian	19	23	9	5	28	28
Thames	0	0	2	3	2	3
Southern	27	45	38	20	65	65
Wessex	30	31	8	7	38	38
South West	92	113	17	19	109	133 **
TOTAL	241	301	123	100	364	402

** One not assessed.

ENQUIRIES ABOUT WATER QUALITY DATA

Table PC23.

REGION	Prior to Water Act (No)	Examination of Water Act Register (No)
	1988/89	1989/90
Northumbria	25	100
Yorkshire	210	270
North West	103	122
Welsh	46	111
Severn Trent	0*	136
Anglian	115	251
Thames	120	271
Southern	32	67
Wessex	100	136
South West	0*	180
TOTAL	751	1644

POLLUTION CONTROL

POLLUTION CONTROL STAFFING

Table PC24.

REGION	Non-Manual (No)		Manual (No)		Total (No)		Emergencies Workforce Full Time & Standby
	88/89	89/90	88/89	89/90	88/89	89/90	1989/90
Northumbria	23.0	36.0	.0	.0	23.0	36.0	20.0
Yorkshire	0*	106.0	.0	.0	0*	106.0	54.0
North West	108.0	113.0	.0	.0	108.0	113.0	.0
Welsh	102.0	103.0	.0	.0	102.0	103.0	90.0
Severn Trent	0*	153.0	.0	3.0	.0	156.0	99.0
Anglian	141.0	147.0	3.0	4.0	144.0	151.0	100.0
Thames	0*	93.0	.0	2.0	.0	95.0	450.0
Southern	48.0	56.5	.0	.0	48.0	56.5	136.0
Wessex	51.0	55.4	1.0	.0	52.0	55.4	22.0
South West	0*	90.0	.0	.0	.0	90.0	56.0 **
TOTAL	473.0	952.9	4.0	9.0	477.0	961.9	1027.0

** Includes 34 from Fisheries & Field Sections although rarely called for pollution incidents.

FLOOD DEFENCE

LAND DRAINAGE CONSENTS

Table FD1.

REGION	In Force (No)		Determined (No)	
	1988/89	1989/90	1988/89	1989/90
Northumbria	2500	2670	170	216
Yorkshire	410	436	418	484
North West	602	469	602	469
Welsh	0*	0†	652	630
Severn Trent	4000	4360	360	457
Anglian	0*	20000	0*	530
Thames	0	1770	624	532
Southern	0	0	367	386
Wessex	4124	4406	282	250
South West	0	0	144	160
TOTAL	11636	34111	3619	4114

PLANNING APPLICATIONS DEALT WITH

Table FD2.

REGION	Total (No)
	1989/90
Northumbria	1177
Yorkshire	5019
North West	2950
Welsh	13854
Severn Trent	5890
Anglian	38780
Thames	6409
Southern	2953
Wessex	4307
South West	3442
TOTAL	84781

FLOODING

Table FD3.

REGION	Major Flooding Incidents (Fluvial and Coastal) (No)		Flood Warnings Issued to Police (No)	
	1988/89	1989/90	1988/89	1989/90
Northumbria	0*	1	5	2
Yorkshire	0	2	15	17
North West	4	12	96	145
Welsh	0*	67	68	76
Severn Trent	2	5	102	296
Anglian	0*	1	85	95
Thames	8	8	27	28
Southern	0*	1	0*	53
Wessex	1	14	4	41
South West	13	26	20	146
TOTAL	28	137	422	899

FLOOD DEFENCE

FLOOD DEFENCE WORKS MAINTAINED/IMPROVED

Table FD4.

REGION	Main River (km)		Flood Embankment (km)		Sea Defences (km)		Total (km)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	605	635	210	230	2	4	817	869
Yorkshire	546	546	942	942	16	16	1504	1504
North West	4031	3984	459	435	11	11	4501	4430
Welsh	703	707	262	262	43	43	1008	1011
Severn Trent	1351	1401	764	764	35	35	2150	2200
Anglian	0*	3520	0*	2573	160	160	160	6253
Thames	0*	2404	0*	670	0	0	0	3074
Southern	0*	2748	0	191	0	281	0	3220
Wessex	744	727	570	570	5	5	1319	1302
South West	0*	1044	0*	326	0	7	0	1377
TOTAL	7980	17716	3207	6963	272	562	11458	25240

CAPITAL PROJECTS

Table FD5.

REGION	Capital Projects Completed (No)		Capital Projects Worked on (No)		Rechargeable Schemes Capital Projects Completed (No)		Capital Projects Approved for MAFF Grant (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	2	3	5	4	0	1	3	2
Yorkshire	16	13	47	61	4	4	11	5
North West	9	8	28	40	0	0	16	12
Welsh	16	4	7	7	0	0	4	5
Severn Trent	27	29	30	43	0†	0†	30	43
Anglian	0†	47	0†	168	0†	200	0†	39
Thames	30	30	113	131	0	0	6	7
Southern	0*	14	0*	43	0*	0	0*	7
Wessex	21	26	64	57	2	2	40	45
South West	4	3	26	25	16	19	5	13
TOTAL	125	177	320	579	22	226	115	178

FLOOD DEFENCE WORK DONE IN-HOUSE

Table FD6.

REGION	Design (£'000)		Management (£'000)		Construction (£'000)		Total (£'000)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	29	0	20	11	0	0	49	11
Yorkshire	294	304	407	421	3674	3710	4375	4435
North West	530	317	0	83	1107	1766	1637	2166
Welsh	330	56	0*	0	0*	927	330	983
Severn Trent	6570	6983	0†	0†	380	400	6950	7383
Anglian	0†	686	0†	295	0†	9946	0†	10927
Thames	1490	1780	520	790	1720	2060	3730	4630
Southern	0*	0*	0*	0*	0*	1965	0*	1965
Wessex	404	471	0	0	550	413	954	884
South West	2027	2350	0	0	1340	1200	3367	3550
TOTAL	11674	12947	947	1600	8771	22387	21392	36934

FLOOD DEFENCE

FLOOD DEFENCE WORK CONTRACTED OUT

Table FD7.

REGION	Design (£'000)		Management (£'000)		Construction (£'000)		Total (£'000)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	15	42	0	0	217	197	232	239
Yorkshire	334	384	334	384	3044	4547	3712	5315
North West	50	220	0	0	1975	1784	2025	2004
Welsh	220	250	0*	0	0*	1227	220	1477
Severn Trent	5100	5300	0†	0†	8800	9000	13900	14300
Anglian	0†	2218	0†	412	0†	12863	0†	15493
Thames	1260	1510	685	820	8400	10030	10345	12360
Southern	0*	7345	0*	0*	0*	5380	0*	12725
Wessex	238	282	0	0	3261	3349	3499	3631
South West	25	650	0	0	757	1800	782	2450
TOTAL	7242	18201	1019	1616	26454	50177	34715	69994

NRA NON-TIDAL FLUVIAL DEFENCES

Table FD8.

REGION	Land Use Band A (km)		Land Use Band B (km)		Land Use Band C (km)		Land Use Band D (km)		Land Use Band E (km)		Total All Bands (km)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	.0	.0	1.0	1.0	60.0	60.0	197.0	197.0	49.0	49.0	307.0	307.0
Yorkshire	164.0	172.0	150.0	152.0	721.0	723.0	691.0	693.0	902.0	905.0	2628.0	2645.0
North West	0*	292.0	0*	365.0	0*	903.0	0*	2227.0	0*	5358.0	.0	9145.0
Welsh	83.6	83.8	26.5	27.4	59.1	59.5	83.4	83.6	16.2	16.1	268.8	270.4
Severn Trent	164.0	170.0	319.0	325.0	708.0	708.0	1418.0	1418.0	4257.0	4257.0	6866.0	6878.0
Anglian	0*	368.0	0*	860.0	0*	3846.0	0*	4670.0	0*	1880.0	0*	11624.0
Thames	1069.0	1069.0	706.0	706.0	1908.0	1908.0	2736.0	2736.0	3556.0	3556.0	9975.0	9975.0
Southern	0*	.0	0*	10.0	0*	81.0	0*	100.0	0*	.0	0*	191.0
Wessex	656.0	656.0	208.0	208.0	348.0	348.0	1252.0	1252.0	1800.0	1800.0	4264.0	4264.0
South West	.0	132.0	324.0	263.0	.0	439.0	.0	637.0	.0	724.0	324.0	2195.0
TOTAL	2136.6	2942.8	1734.5	2917.4	3804.1	9075.5	6377.4	14013.6	10580.2	18545.1	24632.8	47494.4

NRA TIDAL/ESTUARIAL DEFENCES

Table FD9.

REGION	Land Use Band A (km)		Land Use Band B (km)		Land Use Band C (km)		Land Use Band D (km)		Land Use Band E (km)		Total All Bands (km)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	.0	.0	.0	.0	.0	.0	19.0	19.0	.0	.0	19.0	19.0
Yorkshire	37.0	37.0	10.0	10.0	62.0	62.0	2.0	2.0	.0	.0	111.0	111.0
North West	0*	2.5	0*	.5	0*	30.6	0*	77.8	0*	60.0	0*	171.4
Welsh	11.2	11.1	11.1	11.0	54.9	54.9	23.4	23.4	.0	.0	100.6	100.4
Severn Trent	190.0	190.0	35.0	35.0	12.0	12.0	12.0	12.0	45.0	45.0	294.0	294.0
Anglian	0*	75.0	0*	182.0	0*	301.0	0*	367.0	0*	147.0	.0	1072.0
Thames	178.0	178.0	10.0	10.0	5.0	5.0	.0	.0	.0	.0	193.0	193.0
Southern	0*	6.0	0*	15.0	0*	53.0	0*	58.0	0*	7.0	0*	139.0
Wessex	112.0	112.0	.0	.0	.0	.0	.0	.0	.0	.0	112.0	112.0
South West	.0	32.0	.0	61.0	.0	102.0	.0	148.0	.0	169.0	.0	512.0
TOTAL	528.2	643.6	66.1	324.5	133.9	620.5	56.4	707.2	45.0	428.0	829.6	2723.8

FLOOD DEFENCE

NRA SEA DEFENCES

Table FD10.

REGION	Land Use Band A (km)		Land Use Band B (km)		Land Use Band C (km)		Land Use Band D (km)		Land Use Band E (km)		Total All Bands (km)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	.0	.0	.0	.0	7.6	7.6	.0	.0	.0	.0	7.6	7.6
Yorkshire	.0	.0	.0	.0	16.0	16.0	1.0	1.0	.0	.0	17.0	17.0
North West	0*	.0	0*	6.1	0*	24.4	0*	21.2	0*	12.0	.0	63.7
Welsh	.0	.0	10.1	10.1	70.3	70.3	27.0	27.0	1.6	1.6	109.0	109.0
Severn Trent	.0	.0	5.0	5.0	32.4	32.4	2.6	2.6	.0	.0	40.0	40.0
Anglian	0*	23.0	0*	55.0	0*	91.0	0*	111.0	0*	44.0	0*	324.0
Thames	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Southern	0*	.0	0*	19.0	0*	95.0	0*	22.0	0*	6.0	0*	142.0
Wessex	23.0	23.0	.0	.0	.0	.0	6.0	6.0	.0	.0	29.0	29.0
South West	3.2	3.2	3.9	3.9	.0	.0	.0	.0	.0	.0	7.1	7.1
TOTAL	26.2	49.2	19.0	99.1	126.3	336.7	36.6	190.8	1.6	63.6	209.7	739.4

FLOOD DEFENCE STAFF

Table FD11.

REGION	Non-Manual (No)		Manual (No)		Total (No)		Emergencies Workforce (Noble Number)
	88/89	89/90	88/89	89/90	88/89	89/90	1989/90
Northumbria	14.0	13.0	29.0	28.0	43.0	41.0	28.0
Yorkshire	97.0	100.0	201.0	195.0	298.0	295.0	125.0
North West	142.0	166.0	297.0	288.0	439.0	454.0	263.0
Welsh	87.0	82.0	167.0	159.0	254.0	241.0	100.0
Severn Trent	117.0	117.0	224.0	224.0	341.0	341.0	241.0
Anglian	204.0	211.0	415.0	389.0	619.0	600.0	350.0
Thames	0*	352.0	0*	513.0	0*	865.0	450.0
Southern	0*	73.5	0*	255.0	0*	328.5	224.0
Wessex	70.0	77.8	113.0	115.0	183.0	192.8	11.4
South West	40.0	51.0	64.0	67.0	104.0	118.0	60.0
TOTAL	771.0	1243.3	1510.0	2233.0	2281.0	3476.3	1852.4

FISHERIES

REGULATION

LICENCES SOLD

Table FI1.

REGION	Rod (No)		Net (No)		Total (No)	
	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	43529	43320	248	191	43777	43511
Yorkshire	103929	102744	60	61	103989	102805
North West	107104	100111	233	233	107337	100344
Welsh	82960	82005	568	515	83528	82520
Severn Trent	283200	290809	958	960	284158	291769
Anglian	229041	229268	1172	938	230213	230206
Thames	219000	220000	582	212	219582	220212
Southern	0*	126498	6	6	6	126504
Wessex	58688	61013	178	232	58866	61245
South West	27619	25886	98	98	27717	25984
TOTAL	1155070	1281654	4103	3446	1159173	1285100

ENFORCEMENT

Table FI2.

REGION	Length Patrolled (km)	Checks/ Challenges (No)		Offence Reports (No)		Prosecutions Taken (No)		Successful Prosecutions (No) (No)	
	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	3770	0†	4662	82	176	79	173	78	167
Yorkshire	6570	17580	19121	2283	2277	201	275	188	245
North West	85500	0*	0†	730	469	481	311	481	310
Welsh	37800	5500	7808	427	527	224	303	185	238
Severn Trent	18121	32856	29096	1374	2423	569	536	569	524
Anglian	3220	29661	34591	2262	2876	392	677	391	654
Thames	3612	30656	36750	2264	2416	564	591	559	587
Southern	3110	22985	20867	2538	2226	80	106	80	106
Wessex	5011	4914	7254	440	474	138	253	118	227
South West	44300	0*	17097	0*	0*	38	28	27	27
TOTAL	211014	144152	177246	12400	13864	2766	3253	2676	3085

BYELAW/STATUTORY OFFENCES (Under Section 32 Salmon Act)

Table FI3.

REGION	Checks/ Challenges (No)		Offence Reports (No)		Prosecutions Taken (No)		Successful Prosecutions (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	0*	25	0*	23	0	21	0	19
Yorkshire	0*	3	0*	3	0*	1	0*	1
North West	0*	0†	4	11	4	9	4	8
Welsh	88	55	21	34	20	31	14	13
Severn Trent	0	3	0	3	0	0	0	0
Anglian	0	0	0	0	0	0	0	0
Thames	0	0	0	0	0	0	0	0
Southern	0*	2	0*	0*	80	106	0*	106
Wessex	0	0	0	0	0	0	0	0
South West	0*	0	0*	0†	6	8	5	5
TOTAL	88	88	25	74	110	176	23	152

FISHERIES

REGULATION

BYELAW/STATUTORY OFFENCES (Excluding Section 32 Salmon Act)

Table FI4.

REGION	Checks/ Challenges (No)		Offence Reports (No)		Prosecutions Taken (No)		Successful Prosecutions (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	0†	0†	64	117	62	115	62	110
Yorkshire	17580	19121	200	200	102	101	84	86
North West	0	0	402	243	313	165	310	165
Welsh	1025	1150	622	683	540	657	445	460
Severn Trent	178	202	178	202	178	190	178	190
Anglian	200	211	20	11	20	11	19	11
Thames	0*	41	0*	41	5	13	5	13
Southern	69	71	8	4	3	2	3	2
Wessex	0	0	0	0	21	19	21	19
South West	0	0	0	0	50	41	38	35
TOTAL	19052	20796	1494	1501	1294	1314	1165	1091

SUB LEGISLATION CREATED OR REVIEWED

Table FI5.

REGION	Byelaws (No)		Others (ie Net Limitation Orders) (No)	
	1988/89	1989/90	1988/89	1989/90
Northumbria	3	0	0	0
Yorkshire	0	7	0	0
North West	313	165	0*	1
Welsh	2	3	0	0
Severn Trent	0	0	0	0
Anglian	0	0	0	0
Thames	0*	37	0	0
Southern	3	2	0	0
Wessex	21	19	0	0
South West	50	41	0	0
TOTAL	392	274	0	1

RECURRENT SAMPLING SITES

Table FI6.

REGION	Salmonid (No)		Non-Salmonid (No)		Total Sites (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	16	20	0	0	16	20
Yorkshire	31	34	18	9	49	43
North West	14	22	0	0	14	22
Welsh	294	299	0	0	294	299
Severn Trent	10	10	40	40	50	50
Anglian	101	100	460	453	561	553
Thames	112	93	87	162	199	255
Southern	12	12	6	6	18	18
Wessex	39	69	5	32	44	101
South West	26	26	0	0	26	26
TOTAL	655	685	616	702	1271	1387

FISHERIES

SAMPLING SITES

Table F17.

REGION	Salmonid (No)		Non-Salmonid (No)		Total (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	36	27	0	0	36	27
Yorkshire	299	179	165	145	464	324
North West	143	125	348	142	491	267
Welsh	511	729	25	29	536	758
Severn Trent	32	46	100	196	132	242
Anglian	101	100	460	453	561	553
Thames	112	93	87	162	199	255
Southern	12	12	6	6	18	18
Wessex	62	76	20	26	82	102
South West	144	283	0	0	144	283
TOTAL	1452	1670	1211	1159	2663	2829

OTHER ACTIVE SURVEYS

Table F18.

REGION	Electronic Fish Counters (No)		Angler Census/ Catches (No)		Fixed Traps Management/Scientific (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	0	0	0	0	0	0
Yorkshire	0	0	780	745	1	0
North West	10	9	0	0	3	3
Welsh	2	2	2	4	7	7
Severn Trent	1	1	3	3	0	0
Anglian	0	0	38	24	0	0
Thames	0	0	0	0	2	2
Southern	0	0	0	0	0	0
Wessex	0	0	0	0	0	0
South West	0	0	1	0	5	5
TOTAL	13	12	824	776	18	17

TOTAL ROD CATCHES

Table F19.

REGION	Salmon (No)		Sea Trout (No)		Total (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	2152	1183	2778	1640	4930	2823
Yorkshire	49	11	279	96	328	107
North West	6428	3927	6174	3139	12602	7066
Welsh	15983	5454	30685	13154	46668	18608
Severn Trent	1338	651	0	0	1338	651
Anglian	0*	1	10	10	10	11
Thames	25	11	3	5	28	16
Southern	1052	859	1073	435	2125	1294
Wessex	1146	697	837	407	1983	1104
South West	4579	1868	7755	3653	12334	5521
TOTAL	32752	14662	49594	22539	82346	37201

FISHERIES

TOTAL COMMERCIAL/NET CATCHES

Table FI10.

REGION	Salmon (No)		Sea Trout (No)		Total (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	44679	35169	32711	48626	77390	83795
Yorkshire	6170	6284	21574	22743	27744	29027
North West	5062	7245	7207	5711	12269	12956
Welsh	5124	5078	6799	6468	11923	11546
Severn Trent	3511	4364	0	0	3511	4364
Anglian	4	4	3815	3815	3819	3819
Thames	0	0	0	0	0	0
Southern	477	79	232	165	709	244
Wessex	736	593	505	365	1241	958
South West	11063	10091	4364	3591	15427	13682
TOTAL	76826	68907	77207	91484	154033	160391

LENGTH OF CLASSIFIED FISHERY

Table FI11.

REGION	Salmonid (km)		Non-Salmonid (km)		Total (km)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	1058	1058	0	0	1058	1058
Yorkshire	2439	2439	908	908	3347	3347
North West	2813	2813	269	269	3082	3082
Welsh	2097	2077	34	34	2131	2111
Severn Trent	1174	1174	1850	1850	3024	3024
Anglian	584	617	2629	2749	3213	3366
Thames	486	486	1060	1060	1546	1546
Southern	206	206	278	278	484	484
Wessex	832	832	553	553	1385	1385
South West	362	369	0	0	362	369
TOTAL	12051	12071	7581	7701	19632	19772

POLLUTION INCIDENTS AND FISH RESCUES

Table FI12.

REGION	Pollution Incidents Attended (No)		Fish Rescues (No)		Fish Saved (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	20	35	0*	2	0*	0†
Yorkshire	72	134	21	34	20357	45464
North West	0*	0*	26	18	227800	39742
Welsh	139	140	41	43	33600	54500
Severn Trent	96	184	27	52	34980	121748
Anglian	49	43	30	48	42401	677938
Thames	0*	144	0*	93	0*	89000
Southern	0*	0*	0*	0*	30000	40000
Wessex	18	25	3	9	120	2515
South West	0	0	0*	3	0*	50000
TOTAL	394	705	148	302	389258	1120907

FISHERIES

FISHERY MAINTENANCE, IMPROVEMENT AND DEVELOPMENT

Table F113.

REGION	Fishery Protection Vessels (No)		Fishery Improvement Structures Built (No)	
	1988/89	1989/90	1988/89	1989/90
Northumbria	1	1	1	2
Yorkshire	1	1	7	6
North West	5	5	0	1
Welsh	17	18	43	18
Severn Trent	0	0	0	1
Anglian	0	0	0	0
Thames	1	2	1	2
Southern	0	0	0	0
Wessex	6	7	4	3
South West	3	3	0	2
TOTAL	34	37	56	35

FISH REARED BY NRA

Table F114.

REGION	Salmonid (No)		Non-Salmonid (No)		Total (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	457700	465500	0	0	457700	465500
Yorkshire	403034	350672	0	0	403034	350672
North West	2548560	2489374	0	0	2548560	2489374
Welsh	904000	908000	0	0	904000	908000
Severn Trent	27703	10155	66925	106772	94628	116927
Anglian	0	0	271000	237000	271000	237000
Thames	137230	85431	15486	31433	152716	116864
Southern	80000	83000	30000	30000	110000	113000
Wessex	0	0	28593	25315	28593	25315
South West	359450	230000	0	0	359450	230000
TOTAL	4917677	4622132	412004	430520	5329681	5052652

FISH STOCKED BY NRA

Table F115.

REGION	Salmonid (No)		Non-Salmonid (No)		Total (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	422600	465500	0	0	422600	465500
Yorkshire	286171	283789	35696	48814	321867	332603
North West	1529366	2551803	2852	124149	1532218	2675952
Welsh	904000	908000	12000	15000	916000	923000
Severn Trent	27703	10155	13695	194492	41398	204647
Anglian	2000	760	213817	428414	215817	429174
Thames	123189	163580	94618	229673	217807	393253
Southern	60000	61000	55000	59000	115000	120000
Wessex	230	10995	901125	43362	901355	54357
South West	9550	130000	0	0	9550	130000
TOTAL	3364809	4585582	1328803	1142904	4693612	5728486

FISHERIES

FISH STOCKED BY OTHERS

Table FI16.

REGION	Section 30 Consents Issued (No)		Fish Stocked			
	1988/89	1989/90	Salmonid (No)		Non-Salmonid (No)	
			1988/89	1989/90	1988/89	1989/90
Northumbria	0	212	201800	141500	15200	6200
Yorkshire	384	376	507229	128911	74304	51000
North West	547	532	879411	578703	0	0
Welsh	273	331	328700	224800	22000	10100
Severn Trent	407	430	250000	245000	230400	230200
Anglian	450	537	524258	628274	166371	190681
Thames	435	329	0*	326000	0	346000
Southern	184	206	250000	250000	1000000	1000000
Wessex	232	242	140590	77773	51160	172717
South West	144	124	166903	512006	92576	55311
TOTAL	3056	3319	3248891	3112967	1652011	2062209

FISHERIES STAFFING

Table FI17.

REGION	Non-Manual (No)		Manual (No)		Total (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	21.0	23.0	.0	.0	21.0	23.0
Yorkshire	25.0	26.0	.0	.0	25.0	26.0
North West	71.0	70.0	.0	.0	71.0	70.0
Welsh	89.0	92.2	.0	.0	89.0	92.2
Severn Trent	43.5	43.5	3.0	3.0	46.5	46.5
Anglian	46.0	26.0	5.0	4.0	51.0	30.0
Thames	22.0	24.0	1.0	1.0	23.0	25.0
Southern	21.0	21.0	4.5	3.0	25.5	24.0
Wessex	27.0	26.8	.0	.0	27.0	26.8
South West	24.0	24.0	.0	.0	24.0	24.0
TOTAL	389.5	376.5	13.5	11.0	403.0	387.5

RECREATION

VISITORS TO RECREATION SITES

Table RC1.

REGION	Estimated Visitors (No)	
	1988/89	1989/90
Northumbria	1000	850
Yorkshire	10000	12000
North West	2350	92000
Welsh	14000	16500
Severn Trent	50000	50000
Anglian	0*	0*
Thames	10000	12000
Southern	23000	25000
Wessex	4500	5500
South West	3500	500000
TOTAL	118350	713850

COLLABORATIVE PROJECTS

Table RC2.

REGION	Total (No)	
	1988/89	1989/90
Northumbria	0	0
Yorkshire	0*	0*
North West	0	0
Welsh	2	2
Severn Trent	10	10
Anglian	1	3
Thames	13	22
Southern	0	1
Wessex	0	0
South West	1	0
TOTAL	27	38

RECREATION STAFFING

Table RC3.

REGION	Non-Manual (No)		Manual (No)		Total (No)	
	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	.0	.0	.0	.0	.0	.0
Yorkshire	6.0	2.0	4.0	.0	10.0	2.0
North West	.0	.0	.0	.0	.0	.0
Welsh	1.0	1.2	.0	.0	1.0	1.2
Severn Trent	3.0	3.0	.0	.0	3.0	3.0
Anglian	1.0	8.0	.0	.0	1.0	8.0
Thames	3.5	5.0	.0	3.0	3.5	8.0
Southern	.5	.5	.0	.0	.5	.5
Wessex	2.0	1.2	.0	.0	2.0	1.2
South West	4.0	3.0	.0	.0	4.0	3.0
TOTAL	21.0	23.9	4.0	3.0	25.0	26.9

CONSERVATION

SITE MANAGEMENT SCHEMES AND COLLABORATIVE PROJECTS

Table CO1.

REGION	Site Management Schemes (No)		Collaborative Projects (No)	
	88/89	89/90	88/89	89/90
Northumbria	0*	0	0*	2
Yorkshire	2	3	4	3
North West	0	0	1	0
Welsh	2	3	4	5
Severn Trent	1	1	52	57
Anglian	20	20	14	19
Thames	1	0	2	2
Southern	2	2	0	8
Wessex	0	2	0	1
South West	0	0	0	0
TOTAL	28	31	77	97

RIVER CORRIDOR SURVEYS

CAPITAL SCHEMES

(Incorporating Conservation work)

Table CO2.

REGION	Surveys Completed (No)		Capital Schemes (No)	
	88/89	89/90	88/89	89/90
Northumbria	0	12	0*	4
Yorkshire	0	0	11	5
North West	67	56	3	1
Welsh	258	187	1	4
Severn Trent	18	5	21	26
Anglian	161	123	20	27
Thames	8	66	11	11
Southern	2	22	0	1
Wessex	39	37	5	4
South West	0	1	5	4
TOTAL	553	509	77	87

CONSERVATION STAFFING

Table CO3.

REGION	Non-Manual (No)		Manual (No)		Total (No)	
	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	.0	1.0	.0	.0	.0	1.0
Yorkshire	2.0	1.0	.0	.0	2.0	1.0
North West	2.0	1.0	.0	.0	2.0	1.0
Welsh	4.9	4.9	.0	.0	4.9	4.9
Severn Trent	5.0	6.0	.0	.0	5.0	6.0
Anglian	2.0	.0	.0	.0	2.0	.0
Thames	2.0	7.0	.0	3.0	2.0	10.0
Southern	.5	.5	.0	.0	.5	.5
Wessex	1.0	1.4	.0	.0	1.0	1.4
South West	.0	2.0	.0	.0	.0	2.0
TOTAL	19.4	24.8	.0	3.0	19.4	27.8

NAVIGATION

FACILITY OPERATION AND MAINTENANCE

Table NA1.

REGION	Length Controlled (km)	Length Operated (km)	Length Maintained (km)	Lockages (No) 1989/90
Northumbria	0	0	0	0
Yorkshire	34	34	34	340
North West	0	0	0	0
Welsh	12	12	0	0
Severn Trent	0	0	0	0
Anglian	507	507	507	0†
Thames	217	217	217	385400
Southern	36	36	36	0
Wessex	0	0	0	0
South West	0	0	0	0
TOTAL	806	806	794	385740

ENFORCEMENT

Table NA2.

REGION	Licences Issued (No)		Checks/ Challenges (No)		Offence Reports (No)		Successful Prosecutions (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	0	0	0	0	0	0	0	0
Yorkshire	7	10	0*	0*	0*	0*	0	0
North West	0	0	0	0	0	0	0	0
Welsh	0	0	0	0	0	0	0	0
Severn Trent	0	0	0	0	0	0	0	0
Anglian	5441	5738	2750	4900	220	667	0*	17
Thames	35019	34139	878468	880324	1746	1915	33	25
Southern	1745	2074	0*	0*	0	0	0*	11
Wessex	0	0	0	0	0	0	0	0
South West	0	0	0	0	0	0	0	0
TOTAL	42212	41961	881218	885224	1966	2582	33	53

SITE MANAGEMENT SCHEMES AND COLLABORATIVE PROJECTS

Table NA3.

REGION	Site Management Schemes (No)		Collaborative Projects (No)	
	1988/89	1989/90	1988/89	1989/90
Northumbria	0	0	0	0
Yorkshire	0	0	0	0
North West	0	0	0	0
Welsh	0	0	0	0
Severn Trent	0	0	0	0
Anglian	76	76	2	2
Thames	0	0	0	0
Southern	0	0	0	0
Wessex	0	0	0	0
South West	0	0	0	0
TOTAL	76	76	2	2

NAVIGATION

NAVIGATION STAFFING

Table NA4.

REGION	Non-Manual (No)		Manual (No)		Total (No)	
	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	.0	.0	.0	.0	.0	.0
Yorkshire	.3	.0	.5	.0	.8	.0
North West	.0	.0	.0	.0	.0	.0
Welsh	.2	.2	.0	.0	.2	.2
Severn Trent	.0	.0	.0	.0	.0	.0
Anglian	.0	5.0	.0	9.0	.0	14.0
Thames	114.0	84.0	.0	27.0	114.0	111.0
Southern	.0	2.0	.0	3.0	.0	5.0
Wessex	.0	.0	.0	.0	.0	.0
South West	.0	.0	.0	.0	.0	.0
TOTAL	114.5	91.2	.5	39.0	115.0	130.2

ADMINISTRATION

PARLIAMENTARY QUESTIONS AND MP's QUESTIONS ANSWERED

Table AM1.

REGION	Parliamentary Questions Dealt With (No)		MP's Letters Dealt With (No)	
	1988/89	1989/90	1988/89	1989/90
Northumbria	0	0	1	14
Yorkshire	1	2	15	25
North West	0	8	0	110
Welsh	10	9	0	97
Severn Trent	0*	12	0*	240
Anglian	0	15	31	53
Thames	0*	0*	0†	252
Southern	0*	13	0*	13
Wessex	0*	1	0*	52
South West	21	17	299	307
TOTAL	32	77	346	1163

MEETINGS SERVICED

Table AM2.

REGION	Regional Advisory Board (No)	Regional Committees (No)
	1988/89	1989/90
Northumbria	8	7
Yorkshire	12	18
North West	2	10
Welsh	3	48 **
Severn Trent	12	12
Anglian	12	59 **
Thames	9	12
Southern	10	35 **
Wessex	8	11
South West	8	11
TOTAL	84	223

** Includes Local Flood Defence Committee meetings

ADMINISTRATION STAFFING

Table AM3.

REGION	Non-Manual (No)		Manual (No)		Total (No)	
	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	.0	8.0	.0	.0	.0	8.0
Yorkshire	.0	23.0	.0	.0	.0	23.0
North West	.0	20.0	.0	.0	.0	20.0
Welsh	.0	18.0	.0	.0	.0	18.0
Severn Trent	.0	52.0	.0	1.0	.0	53.0
Anglian	.0	50.0	.0	.0	.0	50.0
Thames	.0	9.0	.0	.0	.0	9.0
Southern	.0	34.5	.0	.0	.0	34.5
Wessex	.0	21.5	.0	.5	.0	22.0
South West	.0	36.0	.0	.0	.0	36.0
TOTAL	.0	272.0	.0	1.5	.0	273.5

LEGAL SERVICES

CASES TAKEN TO COURT, SUCCESSFUL PROSECUTIONS AND FINES IMPOSED

Table LS1.

REGION	Cases Taken to Court (No)		Successful Prosecutions (No)		Fines Imposed (£)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Water Resources	0	25	0	23	0	8450
Pollution Control	303	299	295	296	138045	1273080
Flood Defence	0	3	0	2	0*	0
Fisheries	3512	4213	3245	3923	105363	139243
Recreation	0	0	0	0	0*	0
Conservation	0	0	0	0	0*	0
Navigation	44	56	33	53	3300	4400
Other	0	6	0	6	0	0
TOTAL	3859	4602	3573	4303	246708	1425173

CASES TAKEN TO COURT, SUCCESSFUL PROSECUTIONS AND FINES IMPOSED

WATER RESOURCES

Table LS2.

REGION	Cases Taken to Court (No)		Successful Prosecutions (No)		Fines Imposed (£)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	0	0	0	0	0	0
Yorkshire	0	1	0	1	0	400
North West	0	1	0	1	0	2000
Welsh	0	2	0	2	0	100
Severn Trent	0	10	0	8	0	2300
Anglian	0	9	0	9	0	600
Thames	0	0	0	0	0	0
Southern	0	2	0	2	0	3050
Wessex	0	0	0	0	0	0
South West	0	0	0	0	0	0
TOTAL	0	25	0	23	0	8450

CASES TAKEN TO COURT, SUCCESSFUL PROSECUTIONS AND FINES IMPOSED

POLLUTION CONTROL

Table LS3.

REGION	Cases Taken to Court (No)		Successful Prosecutions (No)		Fines Imposed (£)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	2	5	2	5	1050	4250
Yorkshire	23	34	25	34	0*	40025
North West	48	48	45	47	29200	1041750
Welsh	65	55	62	54	38760	59155
Severn Trent	40	35	40	35	11400	36400
Anglian	17	18	17	18	12650	25250
Thames	25	10	25	10	10650	11150
Southern	5	6	10	12	1300	5150
Wessex	23	45	22	44	12750	29990
South West	55	43	59	50	20285	19960
TOTAL	303	299	307	309	138045	1273080

LEGAL SERVICES

CASES TAKEN TO COURT, SUCCESSFUL PROSECUTIONS AND FINES IMPOSED

FLOOD DEFENCE

Table LS4.

REGION	Cases Taken to Court (No)		Successful Prosecutions (No)		Fines Imposed (£)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	0	0	0	0	0	0
Yorkshire	0	0	0	0	0	0
North West	0	0	0	0	0	0
Welsh	0	3	0	2	0	0*
Severn Trent	0*	0*	0*	0*	0	0
Anglian	0	0	0	0	0	0
Thames	0	0	0	0	0	0
Southern	0	0	0	0	0	0
Wessex	0	0	0	0	0	0
South West	0	0	0	0	0	0
TOTAL	0	3	0	2	0	0

CASES TAKEN TO COURT, SUCCESSFUL PROSECUTIONS AND FINES IMPOSED

FISHERIES

Table LS5.

REGION	Cases Taken to Court (No)		Successful Prosecutions (No)		Fines Imposed (£)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	107	209	106	198	12,900	19,075
Yorkshire	303	378	272	358	0*	9,000
North West	634	724	565	632	21,994	17,000
Welsh	560	677	530	630	25,905	32,505
Severn Trent	625	734	623	670	13,982	18,622
Anglian	412	688	391	654	0*	14,000
Thames	569	604	564	600	14,651	18,620
Southern	80	106	0*	106	2,460	3,325
Wessex	158	34	139	23	2,500	491
South West	64	59	55	52	10,971	6,605
TOTAL	3512	4213	3245	3923	105,363	139,243

CASES TAKEN TO COURT, SUCCESSFUL PROSECUTIONS AND FINES IMPOSED

CONSERVATION

Table LS6.

REGION	Cases Taken to Court (No)		Successful Prosecutions (No)		Fines Imposed (£)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	0	0	0	0	0	0
Yorkshire	0	0	0	0	0	0
North West	0	0	0	0	0	0
Welsh	0	0	0	0	0	0
Severn Trent	0	0	0	0	0	0
Anglian	0	0	0	0	0	0
Thames	0	0	0	0	0	0
Southern	0	0	0	0	0	0
Wessex	0	0	0	0	0	0
South West	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0

LEGAL SERVICES

CASES TAKEN TO COURT, SUCCESSFUL PROSECUTIONS AND FINES IMPOSED

NAVIGATION

Table LS7.

REGION	Cases Taken to Court (No)		Successful Prosecutions (No)		Fines Imposed (£)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	0	0	0	0	0	0
Yorkshire	0	0	0	0	0	0
North West	0	0	0	0	0	0
Welsh	0	0	0	0	0	0
Severn Trent	0	0	0	0	0	0
Anglian	0	20	0	17	0	455
Thames	33	25	33	25	2700	2115
Southern	11	11	0*	11	600	1830
Wessex	0	0	0	0	0	0
South West	0	0	0	0	0	0
TOTAL	44	56	33	53	3300	4400

CASES TAKEN TO COURT, SUCCESSFUL PROSECUTIONS AND FINES IMPOSED

OTHER

Table LS8.

REGION	Cases Taken to Court (No)		Successful Prosecutions (No)		Fines Imposed (£)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	0	0	0	0	0	0
Yorkshire	0	0	0	0	0	0
North West	0	0	0	0	0	0
Welsh	0	5	0	5	0	0
Severn Trent	0	0	0	0	0	0
Anglian	0	0	0	0	0	0
Thames	0	0	0	0	0	0
Southern	0	0	0	0	0	0
Wessex	0	1	0	1	0	0
South West	0	0	0	0	0	0
TOTAL	0	6	0	6	0	0

LEGAL SERVICES STAFFING

Table LS9.

REGION	Non-Manual (No)		Manual (No)		Total (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	2.0	2.0	.0	.0	2.0	2.0
Yorkshire	2.0	3.5	.0	.0	2.0	3.5
North West	0*	14.0	.0	.0	.0	14.0
Welsh	15.5	15.5	.0	.0	15.5	15.5
Severn Trent	0*	5.0	.0	.0	.0	5.0
Anglian	5.0	5.0	.0	.0	5.0	5.0
Thames	0*	15.0	.0	.0	0*	15.0
Southern	0*	8.0	.0	.0	.0	8.0
Wessex	3.0	2.8	.0	.0	3.0	2.8
South West	2.0	3.0	.0	.0	2.0	3.0
TOTAL	29.5	73.8	.0	.0	29.5	73.8

ESTATES MANAGEMENT

LAND TRIBUNAL ARBITRATION REFERENCES AND STATUTORY NOTICES FOR LAND

Table EM1.

REGION	Land Tribunal Arbitration References (No)		Statutory Notices for Land Issued (No)	
	1988/89	1989/90	1988/89	1989/90
Northumbria	0	0	0	0
Yorkshire	0	0	145	175
North West	0	0	0	0
Welsh	2	3	412	345
Severn Trent	0	1	24	86
Anglian	0	0	0*	748
Thames	0	0	0	0
Southern	0	0	0	0
Wessex	1	0	96	147
South West	0	0	0*	115
TOTAL	3	4	677	1616

ESTATES MANAGEMENT STAFFING

Table EM2.

REGION	Non-Manual (No)		Manual (No)		Total (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	1.0	1.0	.0	.0	1.0	1.0
Yorkshire	4.5	3.5	.0	.0	4.5	3.5
North West	.0	2.0	.0	.0	.0	2.0
Welsh	.0	.0	.0	.0	.0	.0
Severn Trent	4.0	3.0	.0	.0	4.0	3.0
Anglian	4.0	4.0	.0	.0	4.0	4.0
Thames	3.0	3.0	.0	.0	3.0	3.0
Southern	.0	3.0	.0	.0	.0	3.0
Wessex	3.0	3.2	.0	.0	3.0	3.2
South West	.0	3.0	.0	.0	.0	3.0
TOTAL	19.5	25.7	.0	.0	19.5	25.7

PUBLIC RELATIONS

COMMUNICATIONS AND EVENTS

Table PR1.

REGION	Public Enquiries Answered (No)		News and Press Releases (No)		Publications Produced (No)		Events Attended (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	0†	1475	4	25	0	13	0	8
Yorkshire	0*	560	0	37	0	7	0	1
North West	0*	1100	0*	52	0	10	0*	3
Welsh	0*	0†	0	61	0	10	0	5
Severn Trent	0*	1662	0	86	0	16	0	5
Anglian	0*	400	0	84	0	30	0	17
Thames	0*	2000	0	20	0	6	0	0
Southern	165	1104	11	67	8	12	0	7
Wessex	500	800	12	90	0	7	0	3
South West	0*	1800	0	90	0	5	0	8
TOTAL	665	10901	27	612	8	116	0	57

PUBLIC RELATIONS STAFFING

Table PR2.

REGION	Non-Manual (No)		Manual (No)		Total (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	3.0	3.0	.0	.0	3.0	3.0
Yorkshire	0*	1.0	.0	.0	.0	1.0
North West	0*	2.0	.0	.0	.0	2.0
Welsh	0*	2.0	.0	.0	.0	2.0
Severn Trent	0*	3.0	.0	.0	.0	3.0
Anglian	0*	3.0	.0	.0	.0	3.0
Thames	0*	4.0	.0	.0	.0	4.0
Southern	1.0	2.0	.0	.0	1.0	2.0
Wessex	3.0	4.0	.0	.0	3.0	4.0
South West	0*	2.0	.0	.0	.0	2.0
TOTAL	7.0	26.0	.0	.0	7.0	26.0

INFORMATION TECHNOLOGY AND SYSTEMS

INFORMATION TECHNOLOGY AND SYSTEMS

Table IT1.

REGION	PC's (No)		PC's per Head (No)		Workstations (No)		Minis (No)		Mainframes (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	0	34	.30	.31	0	0	0	0	0	0
Yorkshire	0	282	.60	.84	3	3	3	3	0	0
North West	0	120	.00	.24	0	120	0	0	0	0
Welsh	0	230	.40	.46	2	1	2	3	0	0
Severn Trent	0	150	.10	.29	4	0	4	0	0	0
Anglian	0	220	.30	.36	8	120	8	9	0	2
Thames	0	200	.20	.27	5	210	5	4	0	0
Southern	0	56	.00	.21	0	0	0	1	0	0
Wessex	0	80	.20	.32	0	6	0	4	0	0
South West	0	200	.50	.70	3	2	3	7	0	0
TOTAL	0	1572	.26	.40	25	462	25	31	0	2

INFORMATION TECHNOLOGY AND SYSTEMS

Table IT2.

REGION	LAN's (No)		WAN's (No)		Telemetry Outstations (No)		Mobile Radios (No)		Applications (No)	
	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	0	2	0	0	64	0	0	16	4	9
Yorkshire	0	1	0	1	94	98	0	109	10	24
North West	0	0	0	0	0	217	0	210	0	51
Welsh	0	1	0	0	161	214	0	0	0	14
Severn Trent	0	0	0	0	160	276	0	0	4	0
Anglian	0	5	0	4	210	284	0	550	11	40
Thames	0	4	0	0	281	197	0	321	0	48
Southern	0	0	0	0	0	0	0	214	0	70
Wessex	0	3	0	1	140	150	0	170	0	8
South West	0	1	0	1	3	120	0	50	0	50
TOTAL	0	17	0	7	1113	1556	0	1640	29	314

INFORMATION TECHNOLOGY AND SYSTEMS STAFFING

Table IT3.

REGION	Non-Manual (No)		Manual (No)		Total (No)	
	1988/89	1989/90	88/89	89/90	1988/89	1989/90
Northumbria	1.0	2.0	.0	.0	1.0	2.0
Yorkshire	8.0	13.0	.0	.0	8.0	13.0
North West	.0	9.0	.0	.0	.0	9.0
Welsh	18.0	18.0	.0	.0	18.0	18.0
Severn Trent	1.0	.0	.0	.0	1.0	.0
Anglian	3.0	21.0	.0	.0	3.0	21.0
Thames	3.0	9.0	.0	.0	3.0	9.0
Southern	.0	2.0	.0	.0	.0	2.0
Wessex	5.0	4.0	.0	.0	5.0	4.0
South West	1.0	12.0	.0	.0	1.0	12.0
TOTAL	40.0	90.0	.0	.0	40.0	90.0

PERSONNEL SERVICES

NRA TOTAL NUMBER OF EMPLOYEES – BY REGION

Table PS1.

REGION	Non-Manual (No)		Manual (No)		Total (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	86.0	111.0	29.0	28.0	115.0	139.0
Yorkshire	265.0	337.0	197.0	195.0	462.0	532.0
North West	416.0	498.0	278.0	288.0	694.0	786.0
Welsh	428.0	498.5	165.0	167.0	593.0	665.5
Severn Trent	370.0	524.0	239.0	230.0	609.0	754.0
Anglian	0*	608.0	0*	423.0	0*	1031.0
Thames	0*	739.0	0*	554.0	0*	1293.0
Southern	0*	267.0	0*	261.0	0*	528.0
Wessex	220.0	247.5	112.0	114.5	332.0	362.0
South West	180.0	286.0	60.0	69.0	240.0	355.0
TOTAL	2592.0	4116.0	1529.0	2329.5	4121.0	6445.5

NRA TOTAL NUMBER OF EMPLOYEES – BY FUNCTION & SUPPORT SERVICE

Table PS2.

FUNCTION/ SUPPORT SERVICE	Non-Manual (No)		Manual (No)		Total (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Water Resources	248.5	498.4	19.0	22.0	267.5	520.4
Pollution Control	473.0	953.0	4.0	9.0	477.0	962.0
Flood Defence	679.5	1243.0	1286.0	2233.0	1965.5	3476.0
Fisheries	390.0	376.5	14.5	11.0	404.5	387.5
Recreation	18.0	24.0	4.0	3.0	22.0	27.0
Conservation	23.4	25.0	.0	3.0	23.4	28.0
Navigation	114.5	91.2	.5	39.0	115.0	130.2
Legal	29.5	73.8	.0	.0	29.5	73.8
Estates Management	19.5	25.7	.0	.0	19.5	25.7
Information Systems	40.0	90.0	.0	.0	40.0	90.0
Personnel	25.5	79.5	.0	.0	25.5	79.5
Finance	504.0	245.0	165.0	.0	669.0	245.0
Other	.0	393.0	.0	7.5	.0	400.5
TOTAL	2565.4	4118.1	1493.0	2327.5	4058.4	6445.6

WORKING DAYS LOST AND REPORTABLE ACCIDENTS

Table PS3.

REGION	Working Days Lost (No)						Reportable Accidents (No)					
	Non-Manual		Manual		Total		Non-Manual		Manual		Total	
	88/89	88/89	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90	88/89	89/90
Northumbria	302	155	513	536	815	691	0*	2	2	3	2	5
Yorkshire	0*	1234	0*	1834	0*	3068	2	1	2	2	4	3
North West	0*	3300	0*	3422	0*	6722	0*	5	30	19	30	24
Welsh	0*	2922	0*	2459	0*	5381	0*	3	0*	13	0	16
Severn Trent	0*	1987	0*	3381	0*	5368	0*	2	11	25	11	27
Anglian	0*	2821	0*	6303	0*	9124	0*	1	0*	21	0	22
Thames	29	46	625	669	654	715	2	4	25	34	27	38
Southern	0*	0	0*	0	0*	0	0*	2	0*	14	0	16
Wessex	1322	1476	1125	1138	2447	2614	0†	3	0†	5	0	8
South West	0*	1019	0*	434	0*	1453	1	2	2	2	3	4
TOTAL	1653	14960	2263	20176	3916	35136	5	25	72	138	77	163

PERSONNEL SERVICES

PERSONNEL STAFFING

Table PS4.

REGION	Non-Manual (No)		Manual (No)		Total (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	2.0	2.0	.0	.0	2.0	2.0
Yorkshire	4.0	8.0	.0	.0	4.0	8.0
North West	0*	11.0	.0	.0	.0	11.0
Welsh	0*	10.0	.0	.0	.0	10.0
Severn Trent	15.0	15.0	.0	.0	15.0	15.0
Anglian	0*	6.0	.0	.0	.0	6.0
Thames	.0	17.0	.0	.0	.0	17.0
Southern	.0	3.5	.0	.0	.0	3.5
Wessex	4.0	4.0	.0	.0	4.0	4.0
South West	.5*	3.0	.0	.0	.5	3.0
TOTAL	25.5	79.5	.0	.0	25.5	79.5

FINANCE

NOTE: When comparing the figures in tables FC1 – FC8, to those in the 1989/90 NRA Annual Report and Accounts, note that Restructuring Costs, Unfunded Pensions, Head Office Costs and Balances are excluded from the figures.

1989/90 RECEIPTS/PAYMENTS – SUMMARY

Table FC1.

REGION	Receipts (£m)	Payments (£m)	Surplus/ (Deficit) (£m)
Northumbria	25.2	21.8	3.4
Yorkshire	17.0	20.0	-3.0
North West	21.3	22.8	-1.5
Welsh	30.0	30.6	-.6
Severn Trent	39.8	38.9	.9
Anglian	55.5	57.0	-1.5
Thames	60.1	56.5	3.6
Southern	21.3	24.0	-2.7
Wessex	13.2	15.7	-2.5
South West	10.7	13.7	-3.0
TOTAL	294.1	301.0	-6.9

1989/90 RECEIPTS/PAYMENTS – WATER RESOURCES

Table FC2.

REGION	Receipts (£m)	Payments (£m)	Surplus/ (Deficit) (£m)
Northumbria	22.4	17.2	5.2
Yorkshire	2.5	2.9	-.4
North West	1.9	2.3	-.4
Welsh	14.6	11.6	3.0
Severn Trent	18.1	15.4	2.7
Anglian	8.5	5.4	3.1
Thames	3.5	2.9	.6
Southern	3.4	3.3	.1
Wessex	2.2	1.8	.4
South West	3.8	2.5	1.3
TOTAL	80.9	65.3	15.6

1989/90 RECEIPTS/PAYMENTS – POLLUTION CONTROL

Table FC3.

REGION	Receipts (£m)	Payments (£m)	Surplus/ (Deficit) (£m)
Northumbria	.7	1.9	-1.2
Yorkshire	1.4	3.6	-2.2
North West	1.7	4.2	-2.5
Welsh	2.5	6.5	-4.0
Severn Trent	2.4	7.0	-4.6
Anglian	2.9	8.3	-5.4
Thames	2.5	5.6	-3.1
Southern	.9	3.1	-2.2
Wessex	1.1	3.2	-2.1
South West	1.0	4.1	-3.1
TOTAL	17.1	47.5	-30.4

FINANCE

1989/90 RECEIPTS/PAYMENTS – FISHERIES

Table FC4.

REGION	Receipts (£m)	Payments (£m)	Surplus/ (Deficit) (£m)
Northumbria	.5	.9	-.4
Yorkshire	.8	1.0	-.2
North West	1.5	2.8	-1.3
Welsh	2.1	2.9	-.8
Severn Trent	1.3	1.9	-.6
Anglian	1.1	1.3	-.2
Thames	1.2	1.2	.0
Southern	.5	.9	-.4
Wessex	.5	1.0	-.5
South West	.4	1.0	-.6
TOTAL	9.9	14.9	-5.0

1989/90 RECEIPTS/PAYMENTS – RECREATION & CONSERVATION

Table FC5.

REGION	Receipts (£m)	Payments (£m)	Surplus/ (Deficit) (£m)
Northumbria	.0	.0	.0
Yorkshire	.0	.0	.0
North West	.0	.0	.0
Welsh	-.2	-.2	.0
Severn Trent	.2	.5	-.3
Anglian	.3	.3	.0
Thames	.7	1.2	-.5
Southern	.0	.0	.0
Wessex	.1	.1	.0
South West	.0	.2	-.2
TOTAL	1.1	2.1	-1

1989/90 RECEIPTS/PAYMENTS – NAVIGATION

Table FC6.

REGION	Receipts (£m)	Payments (£m)	Surplus/ (Deficit) (£m)
Northumbria	.0	.0	.0
Yorkshire	.0	.0	.0
North West	.0	.0	.0
Welsh	.0	.0	.0
Severn Trent	.0	.0	.0
Anglian	.6	.7	-.1
Thames	2.7	4.5	-1.8
Southern	.3	.6	-.3
Wessex	.0	.0	.0
South West	.0	.0	.0
TOTAL	3.6	5.8	-2.2

FINANCE

1989/90 RECEIPTS/PAYMENTS - FLOOD DEFENCE

Table FC7.

REGION	Receipts (£m)	Payments (£m)	Surplus/ (Deficit) (£m)
Northumbria	1.6	1.8	-.2
Yorkshire	12.3	12.5	-.2
North West	16.2	13.5	2.7
Welsh	11.0	9.8	1.2
Severn Trent	17.8	14.1	3.7
Anglian	42.1	41.0	1.1
Thames	49.5	41.1	8.4
Southern	16.2	16.1	.1
Wessex	9.3	9.6	-.3
South West	5.5	5.9	-.4
TOTAL	181.5	165.4	16.1

1989/90 GRANTS

Table FC8.

REGION	DoE Grant in Aid (£m)	MAFF Grant (£m)	Welsh Office Grant (£m)	Total (£m)
Northumbria	2.6	.0	.0	2.6
Yorkshire	4.4	.9	.0	5.3
North West	7.7	.3	.0	8.0
Welsh	5.9	.0	.6	6.5
Severn Trent	7.4	.4	.0	7.8
Anglian	11.6	9.5	.0	21.1
Thames	10.4	1.8	.0	12.2
Southern	4.7	1.5	.0	6.2
Wessex	4.8	1.4	.0	6.2
South West	6.6	.9	.0	7.5
TOTAL	66.1	16.7	.6	83.4

NOTE: These figures are approximate grant allocations for each region and include a re-allocation of residual Head Office costs but exclude unfunded pensions, grant carried forward and grant returned to government.

FINANCE STAFFING

Table FC9.

REGION	Non-Manual (No)		Manual (No)		Total (No)	
	1988/89	1989/90	1988/89	1989/90	1988/89	1989/90
Northumbria	5.0	9.0	.0	.0	5.0	9.0
Yorkshire	10.0	23.0	.0	.0	10.0	23.0
North West	0*	35.0	.0	.0	.0	35.0
Welsh	0*	29.0	.0	.0	.0	29.0
Severn Trent	0*	19.0	.0	.0	.0	19.0
Anglian	43.0	46.0	.0	.0	43.0	46.0
Thames	0*	36.0	.0	.0	.0	36.0
Southern	0*	20.0	.0	.0	.0	20.0
Wessex	15.0	15.0	.0	.0	15.0	15.0
South West	0*	13.0	.0	.0	.0	13.0
TOTAL	73.0	245.0	.0	.0	73.0	245.0

SECTION 4.

**6. GLOSSARY OF TECHNICAL
TERMS & DEFINITIONS**

6. SECTION 4.

GLOSSARY OF TECHNICAL TERMS AND DEFINITIONS

Table	Technical Terms & Definitions	Page No.
SECTION 1.		
GENERAL STATISTICS		
GS3	FLOOD LIABILITY A Flood Plain is an extensive area near a river which is only completely inundated at the time of a major flood. Area of Flood Plain is the highest known flood level for Main Rivers (Flood Defence), as designated in Table GS2. Area of Land Below Sea Level – assume Sea Level equals the highest astronomic tide (HAT).	6
GS4	ESTUARIES Total Length of Estuary is measured from the upper tidal limit to lower limit as defined by Schedule 4 of the Coast Protection Act 1949. Where an estuary was split between regions a dividing line with the other region(s) was agreed.	7
GS5	COASTLINE Total Length of Coastline is defined as highwater mark along the coast and Schedule 4 boundary of Coastal Protection Act across estuaries. Total number of EC Bathing Beaches is the number designated by the DoE in the year concerned.	7
GS6	COASTAL WATERS Area of Coastal Waters (Water Quality) is the total area of controlled estuarial and coastal waters for water quality purposes measured from the upper tidal limit to the 3 nautical mile limit or 6 nautical mile limit as appropriate. Area of Coastal Waters for Fisheries is the total area of controlled estuarial and coastal waters for fisheries purposes measured from the upper tidal limit to the 6 nautical mile limit.	7
GS7	CANALS Number of Canals is the total number of canals as measured on the Ordnance Survey 1:250,000 scale map. Length of Canals is the total length of canals as measured on the Ordnance Survey 1:250,000 scale map.	8
GS10	OTHER INLAND WATERS (>5ha) Inland Waterbodies are Controlled Waters as defined by the Water Act, i.e. lakes, meres, etc., but excluding reservoirs.	9

SECTION 2.

FIXED ASSETS

FA1	PRIMARY MONITORING STATIONS Rainfall Stations are those that report to the Meteorological Office. River Flow Stations are those that report for the National Archive.	10
FA2	RIVER AUGMENTATION SCHEMES (OWNED AND/OR OPERATED) River to River and Groundwater to River Schemes should be included, such as Ely – Ouse – Essex and River Pang.	10
FA3	AUTOMATIC CONTINUOUS WATER QUALITY MONITORING STATIONS Automated continuous water quality monitoring stations are sites with fixed probes recording parameters including temperatures, dissolved oxygen, conductivity, etc.	10
FA4	GAUGING STATIONS WITH AUTOMATIC FLOOD WARNING DEVICES Gauging stations with automatic flood warning devices are sites with electronic instruments which send signals about high water levels or flows to remote NRA offices.	11
FA5	NRA CONTROLLED FLOOD DEFENCES NRA controlled flood defences are structures or other assets owned or managed by the NRA. Both banks of a river or estuary are included for measurement purposes.	
FA6	NRA ROD AND LINE FISHERIES – RIVER NRA rod and line fisheries are lengths of river where the NRA is the riparian owner and manages and controls the sport fishing rights.	11
FA17	SITES OF SPECIAL SCIENTIFIC INTEREST SSSI's include those designated by the NCC on the grounds of aquatic habitat, (river, estuary or coastal waters), being the most important feature of the site for wildlife conservation. Note – ponds in woodlands do not count if the woodland is the main reason for designation, not the pond. 'Other' includes wetland/bogland SSSI's.	15
FA18	NAVIGATION FACILITIES Sanitary Stations – A sanitary station is a site or building, usually with pumping facilities, for the disposal of sewage and other waste products from pleasure craft.	15

Table	Technical Terms & Definitions	Page No.
SECTION 3.		
ACTIVITY, OUTPUT & PERFORMANCE INDICATORS		
WATER RESOURCES		
WR1	MONITORING SITES Monitoring sites are those sites used for taking water level and/or flow measurements, the results from which are placed on regional and/or national archives.	17
WR2	RAINFALL Monthly rainfall is the sum of total daily rainfall. Annual total rainfall is the sum of total daily rainfall. The "Over Region (% Average Rainfall)(mm)" was obtained by dividing the "Annual Total"(mm) by the "Long Average (1941/1970)", and multiplying by 100.	17
WR7 – WR20	ABSTRACTION These statistics refer to authorised and actual abstractions, greater than 0.5ml/d, under NRA licence conditions. The distinction between tidal surface-waters, non-tidal surface waters and groundwater should be that used in classifying licenses.	19 – 23
WR7 – WR8	ABSTRACTION – WATER SUPPLY Water suppliers include both public and private water undertakers.	19
WR11 – WR12	ABSTRACTION – SPRAY IRRIGATION Megalitres/day were calculated by dividing the total annual quantity abstracted by the number of days in the year even though in some cases the abstraction is restricted to a specified period, e.g. spray irrigation. Include both agricultural and other, as licensed.	20
WR13 – WR14	ABSTRACTION – AGRICULTURE (OTHER) This includes all other licensed agricultural abstraction except spray irrigation.	21
WR15 – WR16	ABSTRACTION – POWER UTILITIES Power Utilities includes pumped storage generation, but not pumping to storage.	21 – 22

Table	Technical Terms & Definitions	Page No.
POLLUTION CONTROL		
PC1	CONSENTED DISCHARGES The 1989 Water Act created ten Water and Sewerage Undertakers, having the same areas as the old Regional Water Authorities. Consented Discharges are discharges to controlled waters consented by the NRA under the 1989 Water Act.	25
PC9	POLLUTION INCIDENTS A 'Serious Incident' is an incident that has any of the following effects and includes all cases where legal proceedings are initiated. (i) down grades the class of any watercourse classified in the River Quality Survey by more than 10% over 0.5kms. (ii) interferes with water abstraction through quantity or quality. (iii) results in fish mortality. (iv) causes significant interference with legitimate use of water, including stock watering. (v) adversely affects any SSSI, nature reserve or area of high conservation interest.	28
PC10 – PC12	POLLUTION INCIDENTS – TYPES Agricultural Pesticides/Fertilisers Waste/pollution incidents caused by sheep dips, pesticides, herbicides, fertilisers and mineral fertilisers. Organic Farm Wastes Waste/pollution incidents caused by cattle, pigs, poultry, fish farms and vegetable washings. Oils/Related products Incidents caused by minor spillages, i.e. car sump oil disposal, garage run-off, oil tank leaks, etc. EXCLUDE industrial discharge incidents. Other Miscellaneous Incidents caused by coal mine run-off, spillages, road accidents, waste tip leakage, etc. Organic Industrial Wastes Incidents caused by food processing plants etc.	28 – 30
PC13 – PC19	NRA ENFORCEMENT POLICY CATEGORY 1. A MAJOR incident involving one or more of the following :- a) Potential or actual persistent effect on water quality or aquatic life. b) Closure of potable water, industrial or agricultural abstraction necessary. c) Extensive fish kill . d) Excessive breaches of consent conditions. e) Extensive remedial measures necessary. f) Major effect on amenity value. CATEGORY 2. A SIGNIFICANT pollution which involves one or more of the following:- a) Notification to abstractors necessary. b) Significant fish kill. c) Measurable effect on invertebrate life. d) Water unfit for stock. e) Bed of watercourse contaminated. f) Amenity value to public, owners or users reduced by odour or appearance. OR breach of consent conditions.	30 – 32

POLLUTION CONTROL

CATEGORY 3.

MINOR

Suspected or probable pollution which on investigation proves unlikely to be capable of substantiation or to have no notable effect.

PC20

RIVER AND CANAL WATER QUALITY

32

Assume chemically and biologically for routine monitoring only.

Descriptions of Classes.

- 1A Waters of high quality suitable for potable supply abstractions and for all other abstractions. Game or other high class fisheries supported.
 High amenity value.
- 1B Water of less high quality than Class 1A but usable for substantially the same purposes.
- 2 Waters suitable for potable supply after advanced treatment. Reasonably good coarse fisheries supported. Moderate amenity value.
- 3 Waters which are polluted to an extent fish are absent or only sporadically present. May be used for low grade industrial abstraction purposes.
 Considerable potential for further use if cleaned up.
- 4 Waters which are grossly polluted and are likely to cause nuisance.
- N/S Not classified due to lack of data.

Table	Technical Terms & Definitions	Page No.
FLOOD DEFENCE		
FD2	PLANNING APPLICATIONS DEALT WITH Planning applications inspected, considered and responses returned to the planning authority.	35
FD4	FLOOD DEFENCE WORKS MAINTAINED/IMPROVED Length of Main River Maintained is the linear length of the channel, NOT the sum of maintenance from both banks. An Embankment is a man-made bank generally consisting of soil to raise natural bank level in order to prevent flooding.	36
FD5	CAPITAL PROJECTS Rechargeable Schemes are those where greater than 50% costs are recharged, and total scheme costs exceed £20k.	36
FD8-FD10	Description of Typical Land Use BAND - A A reach containing urban elements of residential and non-residential property, distributed over a significant proportion of its length, or densely populated areas over some of its length. Any agricultural influence is likely to be over-ridden by urban interests. Amenity uses such as parks and sports fields may be prominent in view of the floodplain's proximity to areas of population density. - B Reaches containing residential and/or non-residential property, either distributed over the full length of the reach, or concentrated in parts but characterised by lower densities than Band A. - C Limited numbers of isolated rural communities or urban fringe at risk from flooding, including both residential and commercial interests. Intensive agricultural use could also be included. - D Isolated, but limited numbers of residential and commercial properties at risk from flooding. Agricultural use will probably be the main customer interest, with arable farming being a feature. In developed pockets of largely urban use, amenity interest may be prominent. - E There are likely to be very few properties and major roads at risk from flooding in these reaches. Agricultural use will be the main customer interest with either extensive grassland or, where the flood plain extent is small, arable cropping being the most common land uses. Amenity interests are likely to be limited to public footpaths along or across the river.	37 – 38
FD8	NRA NON-TIDAL FLUVIAL DEFENCES Fluvial means 'relating to rivers and their flows' and includes the length of BOTH banks, where applicable.	37
FD9	NRA TIDAL/ESTUARIAL DEFENCES The figures include the length of BOTH banks. Lower limit is Landward Schedule 4 Boundary – Coast Protection Act 1949, and upper limit is MAFF Limit for Tidal Grant Supplement.	37
FD10	NRA SEA DEFENCES These figures are based on use of the Seaward Schedule 4 Boundaries.	38

Table	Technical Terms & Definitions	Page No.
FISHERIES		
FI1	LICENCES SOLD Includes all commercial instruments.	39
FI2	ENFORCEMENT Checks/Challenges are interviews conducted by bailiffs/fisheries inspectors.	39
FI3	BYELAW/STATUTORY OFFENCES Section 32 of the Salmon Act 1986 encompasses "Handling salmon under suspicious circumstances".	39
FI4	BYELAW/STATUTORY OFFENCES Excluding Section 32 of Salmon Act 1986 means this table includes everything but handling salmon.	40
FI7	SAMPLING SITES Salmonid means a member of the family of fishes which include salmon and trout. Sampling Sites are those used for stock assessment and nature surveys.	41
FI8	OTHER ACTIVE SURVEYS Information actively gathered by methods other than conventional surveys. Fixed Traps are those authorised by MAFF for NRA fisheries, scientific and management purposes.	41
FI11	LENGTH OF CLASSIFIED FISHERY Length of fishery represents that designated under the EC Freshwater Fish Directive in most, but not all cases.	42
FI13	FISHERY MAINTENANCE, IMPROVEMENT AND DEVELOPMENT Fishery Improvement Structures should include Fish Passes and In-River structures to improve habitat.	43
FI16	FISH STOCKED BY OTHERS Section 30 Consents authorise introduction of fish into inland waters under NRA jurisdiction.	44

NAVIGATION

NA2	ENFORCEMENT	47
	Licence Checks/Challenges is the total number of licence checks as opposed to licences checked i.e. a craft licence checked 20 times in one year should be counted as 20.	

PERSONNEL SERVICES

PS5	PERSONNEL STAFFING	57
	These and other staffing figure are all full time equivalents.	

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NORTH WEST REGION

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NORTHUMBRIA REGION

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Tel: (091) 213 0266
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WELSH REGION

Rivers House
St Mellons Business Park
St Mellons
Cardiff
South Glamorgan CF3 0EG
Tel: (0222) 770 088
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YORKSHIRE REGION

Rivers House
21 Park Square South
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SEVERN-TRENT REGION

Sapphire East
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Tel: (021) 711 2324
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WESSEX REGION

Rivers House
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Bridgwater
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SOUTH WEST REGION

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Kestrel Way
Exeter EX2 7LQ
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THAMES REGION

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