



**ENVIRONMENT
AGENCY**

REGIONAL FISHERIES ADVISORY COMMITTEE

ANNUAL FISHERIES REPORT

1995/96

MIDLANDS REGION

VOLUME II: Appendices

Tuesday 2 July 1996

CONTENTS

Appendix 1	:	River Severn Salmon Data
Appendix 2	:	Regional Fisheries Byelaws
Appendix 3	:	Fish Population Survey Summary Results
Appendix 4	:	Fish Rearing and Stocking
Appendix 5	:	Fish Mortalities



ENVIRONMENT AGENCY

NATIONAL LIBRARY &
INFORMATION SERVICE

NORTH EAST REGION

Tyneside House, Skinnerburn Road,
Newcastle Business Park,
Newcastle-Upon-Tyne NE4 7AR

Appendix 1

River Severn Salmon Data

Licence Sales
Catch Returns
Redd Counts
Scale Analysis

Appendix 1. River Severn Salmon Year Class Strength

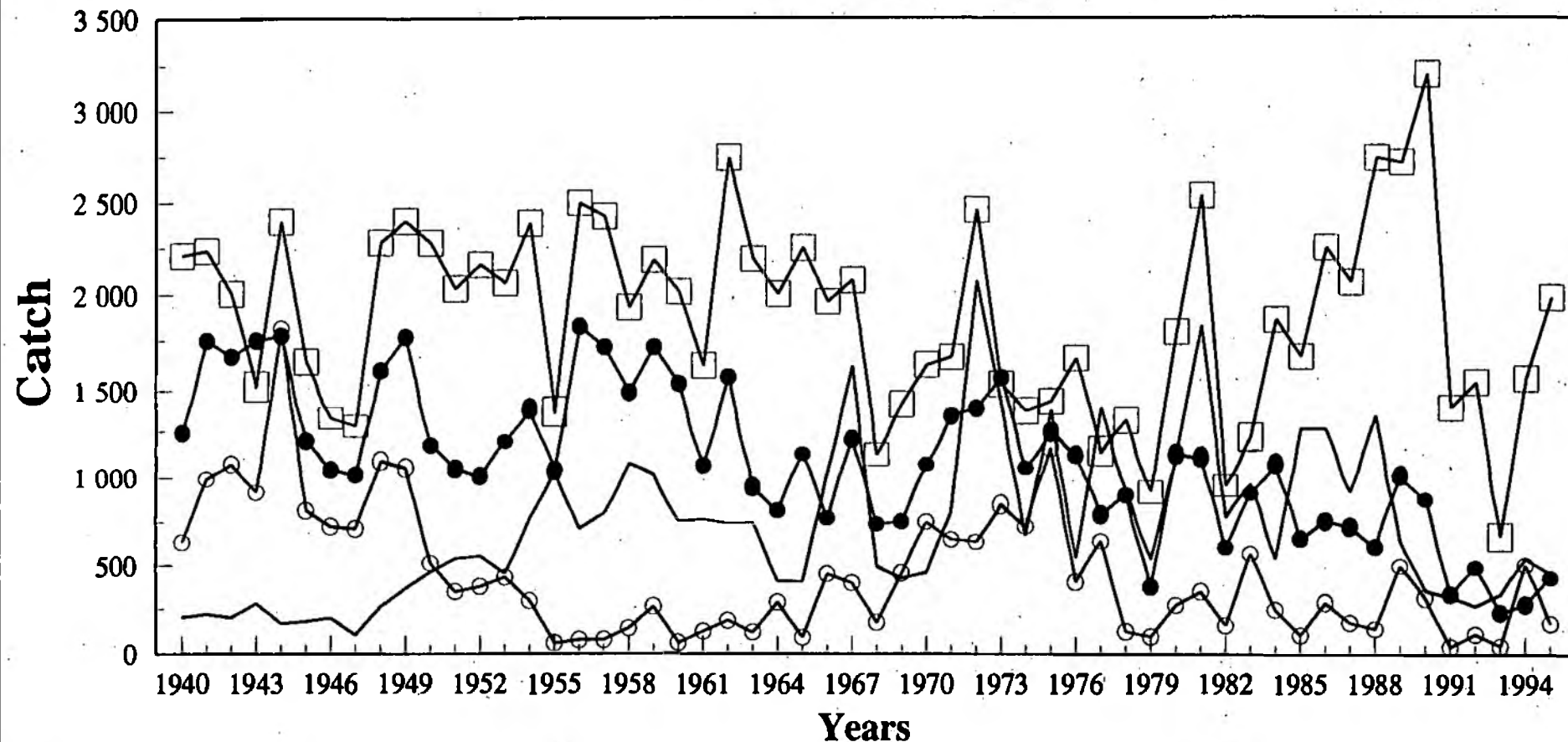
Year class and catch composition							
Year class	Year class yield	4-sea winter	3-sea winter	2-sea winter	Grilse	Year of capture	Total catch (annual)
1940						1943	
1941						1944	
1942						1945	
1943						1946	
1944						1947	
1945						1948	
1946						1949	
1947						1950	
1948						1951	
1949						1952	
1950	5507	87	1892	3200	328	1953	
1951	4105	32	2290	1517	266	1954	
1952	4308	23	1670	2524	91	1955	
1953	5060	25	2029	2807	199	1956	5100
1954	4326	26	2000	2208	92	1957	4601
1955	6019	18	2595	3066	340	1958	4600
1956	3084	26	1424	1598	36	1959	5127
1957	2661	12	934	1602	113	1960	4332
1958	4997	39	1320	3122	516	1961	3560
1959	4834	43	1466	2187	1138	1962	5220
1960	4361	13	2033	1822	493	1963	4012
1961	3078	21	1481	1371	205	1964	3532
1962	6087	54	3075	2510	448	1965	3895
1963	2648	52	666	1715	215	1966	4219
1964	3266	70	1373	1324	499	1967	5310
1965	2817	14	973	1312	518	1968	2562
1966	3315	46	1045	1911	313	1969	3050
1967	4878	48	2072	1805	953	1970	3907
1968	5589	188	1215	3315	871	1971	3735
1969	4579	26	955	2493	1105	1972	6538
1970	3551	19	400	1606	1526	1973	5282
1971	4692	0	321	3286	1085	1974	3834
1972	4510	23	447	2560	1480	1975	5192
1973	4341	11	521	2972	837	1976	3737
1974	3196	0	299	2354	543	1977	3962
1975	2003	47	298	1300	358	1978	3256
1976	4381	0	712	3339	330	1979	1940
1977	5903	18	716	4481	688	1980	4325
1978	2927	60	892	1380	595	1981	5835
1979	3321	63	1138	1696	424	1982	2520
1980	3312	109	721	1579	903	1983	3509
1981	3397	16	902	1869	610	1984	3387
1982	3513	15	498	2036	964	1985	3617
1983	3061	0	150	1627	1284	1986	4331
1984	3323	19	93	1615	1596	1987	3737
1985	5230	27	273	1914	3016	1988	4796
1986	4579	9	139	2218	2213	1989	4220
1987	2578	0	67	783	1728	1990	4238
1988	1988	0	40	1183	765	1991	1714
1989	1325	0	111	422	792	1992	2051
1990			242	1012	458	1993	920
1991				1677	1133	1994	2256
1992					1067	1995	2986

Appendix 1. River Severn Salmon Licence Sales and Catch Returns

Year	Commercial instruments										Total catch	Rods			Total catch (incl. rods)
	Annual Catch	Live nets Num. Licences	Catch/ licence	Annual Catch	Draft nets Num. Licences	Catch/ licence	Annual Catch	Fixed engines Patcher ranks	Num. patters	Catch per 50 patters		Annual Catch	Num. Licences	Catch/ licence	
1940	1243	45	27.6	634	5	126.8	2212	-	5210	21.2	4089	205	87	2.36	4294
1941	1749	61	28.7	994	4	248.5	2238	-	5110	21.9	4981	220	88	2.50	5201
1942	1660	92	18.0	1082	4	270.5	2005	-	5860	17.1	4747	201	140	1.44	4948
1943	1748	93	18.8	915	7	130.7	1512	-	5400	14.0	4175	281	158	1.78	4456
1944	1775	87	20.4	1811	6	301.8	2396	-	5267	22.7	5982	168	163	1.03	6150
1945	1198	76	15.8	812	9	90.2	1635	-	5167	15.8	3643	179	167	1.07	3824
1946	1049	71	14.8	725	10	72.5	1340	-	5487	12.2	3114	199	195	1.02	3313
1947	1022	67	15.3	711	9	79.0	1289	-	4510	14.3	3022	104	167	0.62	3126
1948	1580	76	20.8	1092	8	136.5	2281	-	5212	21.9	4953	263	160	1.64	5216
1949	1765	67	26.3	1058	9	117.6	2397	-	5403	22.2	5220	370	227	1.63	5590
1950	1173	55	21.3	515	4	128.8	2279	-	5734	19.9	3967	462	323	1.43	4429
1951	1050	51	20.6	351	5	70.2	2029	-	5561	18.2	3430	542	336	1.61	3972
1952	1012	61	16.6	380	6	63.3	2160	-	5661	19.1	3552	557	396	1.41	4109
1953	1199	48	25.0	434	4	108.5	2060	-	5700	18.1	3693	455	438	1.04	4148
1954	1387	59	23.5	299	2	149.5	2385	-	5350	22.3	4071	763	434	1.76	4834
1955	1038	65	16.0	59	1	59.0	1369	-	5550	12.3	2466	1038	565	1.84	3504
1956	1821	71	25.6	76	2	38.0	2496	-	5750	21.7	4393	707	848	0.83	5100
1957	1708	75	22.8	77	2	38.5	2424	-	5200	23.3	4209	796	985	0.81	5005
1958	1460	75	19.5	145	4	36.3	1926	-	6250	15.4	3531	1070	1437	0.74	4601
1959	1709	85	20.1	269	2	134.5	2185	-	5250	20.8	4163	1014	1242	0.82	5177
1960	1505	89	16.9	62	2	31.0	2011	-	5200	19.3	3578	754	1294	0.58	4332
1961	1060	76	13.9	127	2	63.5	1605	-	5250	15.3	2792	768	1215	0.63	3560
1962	1541	80	19.3	190	2	95.0	2746	18	5050	27.2	4477	743	1290	0.58	5220
1963	949	76	12.5	122	2	61.0	2190	14	4600	23.8	3261	751	1249	0.60	4012
1964	822	72	11.4	294	2	147.0	1999	16	4800	20.8	3115	417	1385	0.30	3532
1965	1136	60	18.9	274	3	91.3	2250	16	4950	22.7	3660	415	1437	0.29	4075
1966	780	54	14.4	459	4	114.8	1956	16	4300	22.7	3195	1024	1420	0.72	4219
1967	1226	68	18.0	407	4	101.8	2075	16	4200	24.7	3708	1602	1571	1.02	5310
1968	744	57	13.1	180	4	45.0	1137	15	3900	14.6	2061	501	1267	0.40	2562
1969	760	52	14.6	462	4	115.5	1393	16	4000	17.4	2615	435	1193	0.36	3050
1970	1076	63	17.1	757	4	189.3	1607	15	4050	19.8	3440	467	1164	0.40	3907
1971	1328	59	22.5	651	5	130.2	1650	18	3800	21.7	3629	816	1175	0.69	4445
1972	1369	69	19.8	638	5	127.6	2460	18	4300	28.6	4467	2071	1542	1.34	6538
1973	1536	78	19.7	850	5	170.0	1501	16	3757	20.0	3887	1395	1811	0.77	5282
1974	1063	72	14.8	735	5	147.0	1354	18	3867	17.5	3152	682	1959	0.35	3834
1975	1248	85	14.7	1178	5	235.6	1407	16	3770	18.7	3833	1359	1892	0.72	5192
1976	1138	92	12.4	413	5	82.6	1643	19	4240	19.4	3194	543	1517	0.36	3737
1977	795	104	7.6	647	6	107.8	1151	18	5640	10.2	2593	1371	1574	0.87	3964
1978	895	99	9.0	129	5	25.8	1303	18	6240	10.4	2327	929	1816	0.51	3256
1979	384	84	4.6	100	5	20.0	920	18	5965	7.7	1404	536	1736	0.31	1940
1980	1135	99	11.5	281	6	46.8	1788	16	5815	15.4	3204	1121	1076	1.04	4325
1981	1119	95	11.8	358	6	59.7	2537	18	6906	18.4	4014	1821	1751	1.04	5835
1982	612	85	7.2	163	7	23.3	963	18	6706	7.2	1738	775	1782	0.43	2513
1983	911	81	11.2	574	7	82.0	1214	19	6100	10.0	2699	973	1626	0.60	3672
1984	1085	85	12.8	435	13	33.5	1856	19	4956	18.7	3376	546	1348	0.41	3922
1985	664	82	8.1	108	9	12.0	1651	16	4781	17.3	2423	1256	1496	0.84	3679
1986	752	72	10.4	296	8	37.0	2252	16	4561	24.7	3300	1254	1508	0.83	4554
1987	722	66	10.9	181	7	25.9	2060	16	4050	25.4	2963	929	1556	0.60	3892
1988	617	59	10.5	146	7	20.9	2748	16	4500	30.5	3511	1338	1485	0.90	4849
1989	1021	52	19.6	502	6	83.7	2822	20	5085	27.7	4345	651	1721	0.38	4996
1990	880	64	13.8	319	9	35.4	3198	16	4849	33.0	4397	357	1731	0.21	4754
1991	338	45	7.5	43	8	5.4	1366	17	4479	15.2	1747	324	1419	0.23	2071
1992	496	50	9.9	116	7	16.6	1505	17	5600	13.4	2117	275	941	0.29	2392
1993	236	40	5.9	47	6	7.8	667	12	4250	7.8	950	336	705	0.48	1286
1994	283	40	7.1	515	5	103.0	1525	13	4152	18.4	2323	555			2878
1995	435	44	9.9	179	5	35.8	1974	11	1350	73.1	2588	461			3049

Appendix 1.

Total salmon catch by rod and commercial instrument - 1940-1995



Lave nets Draft nets Fixed engines Rods



River/Reach	Average (1975-1994)	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
River Severn																						
Felindre-Dolwen	95.4	21	39	63	112	42	24	134	33	91	48	221	70	127	318	169	129	90	40	99	37	257
Dolwen-Llandinam	51.0	52	15	48	70	20	14	86	21	32	17	57	23	145	160	73	76	43	2	23	43	149
Llandinam-Caersws	73.1	67	26	128	101	17	20	53	17	43	13	46	0	173	204	157	122	126	0	74	74	234
Caersws-Newtown	74.7	90	7	101	150	35	24	112	18	57	23	63	0	105	216	198	47	133	0	46	68	163
Newtown-Welshpool	50.2	132	68	94	55	48	41	115	56	76	27	73	0	16	63	47	43	27	0	10	12	50
Montford/Bridnorth	1.9	0	0	0	0	0	0	0	0	7	0	0	0	10	1	14	0	6	0	0	0	0
Bridgnorth/Bewdley	3.9	0	0	2	0	0	0	0	0	0	0	0	0	10	0	53	0	13	0	0	0	31
Sub-total	350.0	362	155	436	488	162	123	500	145	306	128	460	93	586	962	711	417	438	42	252	234	884
Miscellaneous																						
A. Dulas	75.4	82	64	88	83	27	68	85	17	40	36	112	91	82	236	100	45	37	100	35	79	234
A. Clywedog	11.2	4	0	0	0	0	0	13	7	0	0	18	9	34	17	30	27	19	20	19	7	21
A. Trannon	29.3	28	26	24	36	7	31	26	16	18	7	28	29	68	103	49	10	32	20	14	13	75
A. Garno	39.2	26	21	68	49	20	42	59	14	38	18	56	52	48	41	45	29	55	41	15	46	43
Mochdre Brook	6.6	0	0	16	0	0	17	7	2	0	0	7	16	10	13	11	11	3	3	10	6	7
Bechan Brook	7.7	3	2	2	11	2	21	30	4	9	0	3	10	14	10	5	2	20	0	0	6	4
Mule Brook	5.5	0	5	5	0	0	22	11	4	9	0	0	5	22	7	7	1	1	0	1	10	4
R. Perry	3.5	0	0	3	0	16	9	5	20	5	3	0	2	0	3	2	0	1	0	0	0	0
Rea Brook & Tribs	18.6	0	12	5	2	8	2	80	53	30	11	46	29	30	28	6	7	13	10	0	0	10
Cound Brook	6.3	0	0	0	0	0	0	0	7	4	0	44	7	26	23	6	2	6	0	0	0	10
Sheinton Brook	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	5	0	0
R. Worfe	2.8	0	0	0	0	0	0	0	3	10	0	7	0	11	11	2	6	4	0	2	0	0
Dowles Brook	0.8	2	0	4	2	0	1	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0
Sub-total	207.1	145	130	215	183	80	213	316	147	163	75	321	250	345	492	270	140	195	194	101	167	408
Afon Rhlew																						
North Rhiew	21.7	26	2	34	48	19	11	104	6	21	13	18	12	13	11	12	4	33	12	4	30	30
South Rhiew	27.7	10	12	69	36	6	21	104	32	25	13	27	13	13	12	21	24	53	26	5	31	51
To Severn Confluence	120.6	168	99	72	123	80	142	408	87	141	100	319	39	41	174	83	67	116	49	41	63	156
Sub-total	169.9	204	113	175	207	105	174	616	125	187	126	364	64	67	197	116	95	202	87	50	124	237
River Banwy																						
Foel-Iron Bridge	42.2	41	28	68	78	19	61	56	43	49	31	30	19	30	82	42	14	33	37	46	37	66
Iron Bridge-Llanerfyl	56.2	27	15	79	97	22	69	61	67	73	42	50	31	35	114	74	42	56	41	43	85	128
Llanerfyl-Neuadd	39.5	21	16	53	68	0	29	42	39	41	29	60	29	54	96	24	43	51	2	38	54	157
Neuadd-Newbridge	50.7	40	21	64	115	0	56	62	51	62	44	99	37	39	86	58	39	51	0	34	56	190
A. Twrch	14.4	7	4	9	27	3	17	22	17	14	18	7	0	8	50	29	17	15	7	5	12	29
A. Gam	94.3	52	33	111	135	20	144	225	97	101	76	184	42	66	149	124	38	106	76	47	59	187
Sub-total	297.2	188	117	384	520	64	376	468	314	340	240	430	158	232	577	351	193	312	163	213	303	757

Appendix 99. (cont.)

River/Reach	Average (1975-1994)	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
River Vyrnwy																						
Dolanog area	36.1	11	19	60	18	7	56	75	41	48	29	66	24	43	36	41	35	23	0	41	48	62
Pont Robert-Banwy Conf.	37.4	4	0	45	12	0	30	63	87	66	55	171	0	33	55	18	38	34	0	7	30	55
Banwy Conf.-Severn Conf.	61.3	40	34	38	1	20	61	55	54	99	33	159	0	66	128	79	122	87	0	66	84	168
A.Cain	34.5	0	5	18	17	15	35	66	50	15	32	69	20	95	68	64	37	21	15	32	15	103
Sub-total	169.2	55	58	161	48	42	182	259	232	228	149	465	44	237	287	202	232	165	15	146	177	388
Afon Tanat																						
to Vyrnwy Confluence	254.5	41	138	171	130	55	212	356	225	262	130	313	150	263	860	505	471	332	25	243	208	705
Nant Hirnant	17.6	0	0	7	21	10	24	26	41	0	17	17	21	20	47	32	19	23	21	5	0	81
A.Rhaeadr	9.8	0	0	0	8	0	10	16	15	5	11	8	11	7	30	24	17	20	5	8	0	17
A.Iwrch	21.9	0	11	17	18	10	35	47	53	8	25	25	33	16	37	22	21	11	19	4	25	57
A.Eirrh	17.6	0	6	6	2	0	8	24	16	7	25	17	57	34	31	45	20	21	11	6	15	30
A.Cynllaith	21.0	0	8	9	19	3	22	22	26	2	20	37	12	50	69	42	10	12	19	14	24	55
Sub-total	342.2	41	163	210	198	78	311	491	376	284	228	417	284	390	1074	670	558	419	100	280	272	945
River Teme																						
Teme u/s Ashford Weir	65.8	9	0	13	2	0	0	148	15	58	18	233	5	89	161	88	100	227	7	14	128	332
Teme d/s Ashford Weir	125.9	192	37	64	13	39	76	147	25	71	21	109	18	74	315	421	471	342	0	10	73	334
R.Clun	17.8	6	8	17	0	13	0	51	28	0	24	55	9	87	45	1	1	7	0	3	0	32
R.Onny	22.7	0	15	14	0	0	0	67	70	11	31	42	0	29	50	7	19	22	0	11	65	35
R.Redlake	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
R.Corve	0.8	0	0	0	0	0	0	0	1	0	3	5	2	2	0	0	0	3	0	0	0	3
Gosford Brook	14.0	4	0	0	0	4	8	0	9	1	47	56	110	14	1	17	0	0	3	5	0	28
Ledwyche Brook	14.8	7	0	7	0	3	5	7	14	6	40	43	25	12	44	32	3	13	28	0	6	17
Kyre Brook	0.9	0	0	0	0	0	0	0	0	0	2	7	6	2	0	0	0	0	0	0	0	0
Corn Brook	0.8	0	0	0	0	0	0	0	0	0	0	0	4	2	0	5	0	0	4	0	1	3
R.Rea	10.4	13	0	3	0	0	9	11	23	8	17	21	47	9	7	17	2	8	11	0	2	0
Leigh Brook	4.4	0	0	0	0	0	0	0	0	0	4	11	26	7	18	0	7	1	1	0	12	2
Sub-total	278.0	231	60	118	15	59	98	431	185	155	207	582	252	327	641	588	603	623	54	43	287	787
Grand total	1813.5	1226	796	1699	1659	590	1477	3081	1524	1663	1153	3039	1145	2184	4230	2908	2238	2354	655	1085	1564	4406

Appendix 1. Salmon Scale Analysis

Table 1 - Numbers of scales sent in from each sea life group

Sea life	Number
Grilse (1+)	119
Small spring (2)	68
Small summer (2+)	119
Large spring (3)	16
Large summer (3+)	11
very large spring (4)	0
5-sea winter	0
Previous spawner	3
Kelt	4
Total	340

Table 2 - Numbers of scales originating from different capture methods

Capture method	Number	Percent
Rod	14	4.1
Draft net	11	3.2
Lave net	25	7.4
Fixed engine	289	85.0
Other	1	0.3
Total	340	100.0

Table 3 - River and sea life analysis

Sea life	River life							
	1	1+	2	2+	3	3+	4	
Grilse (1+)	0	9	49	58	3	0	0	0
Small spring (2)	0	3	25	38	2	0	0	0
Small summer (2+)	0	16	37	65	1	0	0	0
Large spring (3)	0	1	2	13	0	0	0	0
Large summer (3+)	0	2	0	9	0	0	0	0
very large spring (4)	0	0	0	0	0	0	0	0
5-sea winter	0	0	0	0	0	0	0	0
Previous spawner	0	0	2	1	0	0	0	0
Kelt	0	1	0	3	0	0	0	0
Total	0	32	115	187	6	0	0	0

Table 4 - Monthly analysis of sea life groups

Sea life	Months												Total	Percent
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Grilse (1+)	0	0	0	0	0	18	66	34	0	0	1	0	119	35.0
Small spring (2)	0	0	1	13	35	14	4	1	0	0	0	0	68	20.0
Small summer (2+)	0	0	0	0	26	43	36	14	0	0	0	0	119	35.0
Large spring (3)	0	0	1	2	10	2	1	0	0	0	0	0	16	4.7
Large summer (3+)	0	0	0	0	0	7	3	1	0	0	0	0	11	3.2
very large spring (4)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
5-sea winter	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Previous spawner	0	0	0	1	2	0	0	0	0	0	0	0	3	0.9
Kelt	0	0	0	0	0	0	2	2	0	0	0	0	4	1.2
Total	0	0	2	16	73	84	112	52	0	0	1	0	340	100.0

Table 5 - Percentage division of run into sea life groups

Sea life groups	Number	Percent
1-sea winter	119	35.0
2-sea winter	187	55.0
3-sea winter	27	7.9
4-sea winter	0	0.0
5-sea winter	0	0.0
Previous spawner	3	0.9
Kelt	4	1.2
Total	340	100.0

Appendix 1. Salmon Scale Analysis

Table 6 - Number of fish in each sea life group caught by different methods

Sea life		Capture method					Total
		Rod	Fixed engine	Lave net	Draft net	Other	
Grilse	(1+)	1	110	3	4	1	119
Small spring	(2)	7	54	6	1	0	68
Small summer	(2+)	0	100	14	5	0	119
Large spring	(3)	4	11	0	1	0	16
Large summer	(3+)	0	11	0	0	0	11
very large spring	(4)	0	0	0	0	0	0
5-sea winter		0	0	0	0	0	0
Previous spawner		2	1	0	0	0	3
Kelt		0	2	2	0	0	4
Total		14	289	25	11	1	340

Table 7 - Percentage division of capture methods according to sea age

Sea life		Capture method					Total
		Rod	Fixed engine	Lave net	Draft net	Other	
Grilse	(1+)	0.8	92.4	2.5	3.4	0.8	100.0
Small spring	(2)	10.3	79.4	8.8	1.5	0.0	100.0
Small summer	(2+)	0.0	84.0	11.8	4.2	0.0	100.0
Large spring	(3)	25.0	68.8	0.0	6.3	0.0	100.0
Large summer	(3+)	0.0	100.0	0.0	0.0	0.0	100.0
very large spring	(4)	0.0	0.0	0.0	0.0	0.0	0.0
5-sea winter		0.0	0.0	0.0	0.0	0.0	0.0
Previous spawner		66.7	33.3	0.0	0.0	0.0	100.0
Kelt		0.0	50.0	50.0	0.0	0.0	100.0

Table 8 - Percentage division of sea age according to capture method

Sea life		Capture method				
		Rod	Fixed engine	Lave net	Draft net	Other
Grilse	(1+)	7.1	38.1	12.0	36.4	100.0
Small spring	(2)	50.0	18.7	24.0	9.1	0.0
Small summer	(2+)	0.0	34.6	56.0	45.5	0.0
Large spring	(3)	28.6	3.8	0.0	9.1	0.0
Large summer	(3+)	0.0	3.8	0.0	0.0	0.0
very large spring	(4)	0.0	0.0	0.0	0.0	0.0
5-sea winter		0.0	0.0	0.0	0.0	0.0
Previous spawner		14.3	0.3	0.0	0.0	0.0
Kelt		0.0	0.7	8.0	0.0	0.0
Total		100.0	100.0	100.0	100.0	100.0

Table 9 - Average length (cm), weight (kg) and condition factor (%)

Sea life		Mean length	Mean weight	Mean CF	Max weight	Min weight
Grilse	(1+)	62.6	2.7	97.1	6.1	1.5
Small spring	(2)	79.3	5.2	95.3	8.5	1.8
Small summer	(2+)	80.4	5.4	95.1	8.5	1.7
Large spring	(3)	87.1	7.0	96.9	10.4	4.9
Large summer	(3+)	87.6	7.4	100.8	9.9	5.7
very large spring	(4)	0.0	0.0	0.0	0.0	0.0
5-sea winter		0.0	0.0	0.0	0.0	0.0
Previous spawner		97.0	9.7	95.6	12.5	6.4
Kelt		81.0	4.8	80.0	6.8	2.5

Appendix 1. Salmon Scale Analysis

Table 10 - Fish condition and scale erosion summary (rod and commercial)

Sea life		Mean condition		Mean erosion	
		Rod	Comm.	Rod	Comm.
Grilse	(1+)	83.2	97.2	5.0	0.8
Small spring	(2)	88.9	96.1	0.7	0.6
Small summer	(2+)	0.0	95.1	0.0	1.2
Large spring	(3)	93.0	97.8	1.5	0.0
Large summer	(3+)	0.0	100.8	0.0	0.4
very large spring	(4)	0.0	0.0	0.0	0.0
5-sea winter		0.0	0.0	0.0	0.0
Previous spawner		96.8	93.0	0.3	0.0
Kelt		0.0	80.0	0.0	5.7

Table 11 - Numbers and distribution of scale samples

Capture location	Number	Percent
d/s Gloucester weirs	326	95.9
Glos weirs - Tewkesbury weir	0	0.0
Tewkesbury weir	4	1.2
Diglis weir - Lincombe	1	0.3
Lincombe weir - Shrewsbury	6	1.8
Shrewsbury weir - Vyrnwy	1	0.3
Vyrnwy confl - Welshpool	0	0.0
Upstream of Welshpool	2	0.6
Vyrnwy and tributaries	0	0.0
Banwy and tributaries	0	0.0
Tanar and tributaries	0	0.0
Teme d/s Powick weir	0	0.0
Teme, Powick - Stanford	0	0.0
Teme, Stanford - Ashford	0	0.0
Teme, upstream of Ashford	0	0.0
Avon	0	0.0
Unknown	0	0.0
Total	340	100.0

Table 12 - Number and percentage of male and female fish

Sex	Number	Percent
Unknown	7	2.1
Male	126	37.1
Female	207	60.9
Total	340	100.0

Appendix 2

Regional Fisheries Byelaws

NATIONAL RIVERS AUTHORITY
SALMON AND FRESHWATER FISHERIES ACT 1975
WATER ACT 1989
WATER RESOURCES ACT 1991
FISHERIES BYELAWS FOR THE SEVERN-TRENT REGION

In exercise of their powers under Section 186 of and Schedule 24 to the Water Act 1989 and under Section 28(6) of and Schedule 3 to the Salmon and Freshwater Fisheries Act 1975 and the Severn Fisheries Provisional Order (1910) Confirmation Act 1911 and all other powers enabling it in that behalf, the National Rivers Authority (hereinafter called 'the Authority') has made the following byelaws (set out as modified by the Authority and confirmed by the Minister to take effect from 1 May 1991 and as further modified by the Authority and confirmed by the Minister to take effect from 13 March 1995):-

1 **Application**

Unless otherwise stated, the provisions of these Byelaws shall apply to the whole of the Severn-Trent Region of the Authority (as hereinafter defined).

2 **Interpretation**

In these byelaws the following terms have the following meanings (unless the context otherwise requires):

- 2.1 "The Severn-Trent Region" means the combined areas of the Severn area and of the Trent area the boundaries of which combined area are shown by the solid black line on the certified map entitled "Severn Trent Fisheries Area identification map" which forms part of these byelaws.
- 2.2 "The Severn area" means the area of the natural catchment of the River Severn and of all watercourses draining or flowing, directly or indirectly, into it, reaching an imaginary line drawn between Beachley Point (NGR ST 548 903) and Avonmouth (NGR ST 512 797) and which passes through both the Shoots (NGR ST 516 865) and a point offshore from Avonmouth (NGR ST 498 806), the boundaries of which are shown by the dashed black line on the certified Severn Trent Fisheries Area identification map.
- 2.3 "The Trent area" means the area of the natural catchment of the River Trent and of all watercourses draining or flowing directly or indirectly into it the boundaries of which area are shown by the dashed black line on the certified Severn Trent Fisheries Area identification map.
- 2.4 Any reference in these Byelaws to a certified map shall be a reference to a map so certified and signed by an officer of the Authority.
- 2.5 All representations of an area or areas on the certified Severn Trent Fisheries Area identification map are for the purposes of identification only and are so as to more particularly delineate and illustrate such area or areas.

- 2.6 The abbreviation "NGR" shall mean Ordnance Survey National Grid Reference.
- 2.7 All references to a river (whether in general terms or by specific reference to the name of such river) shall be deemed to include all tributaries and sub-tributaries and all mill leats and streams and channels and all waters.
- 2.8 The terms used in these Byelaws shall have the meanings ascribed to them in the Salmon and Freshwater Fisheries Act 1975 or the Water Act 1989 as the case may be.
- 2.9 The Interpretation Act 1978 shall apply to the interpretation of these byelaws as it applies to the interpretation of an Act of Parliament, and as if these byelaws and the byelaws hereby revoked were Acts of Parliament.
- 2.10 Any reference to "Severn Trent Water Authority" or its abbreviation "STWA" shall be deemed to mean the Severn-Trent Region of the National Rivers Authority or its abbreviation NRA-ST.

3 Close Seasons and Close Times

a) Salmon

i) Instruments other than rod and line and putts and putchers

The annual close season for fishing for salmon with instruments other than rod and line and putts and putchers shall be the period from and including the 1st day of September to and including the 31st day of January following.

ii) Putts and putchers

The annual close season for fishing for salmon with putts and putchers shall be the period from and including the 16th day of August to and including the 15th day of April following.

iii) Rod and line

The annual close season for fishing for salmon with rod and line shall be the period from and including the 8th day of October to and including the 31st day of January following, except where byelaw 3(c)(i) applies.

iv) Weekly close time for salmon

The weekly close time for fishing for salmon with any instrument other than rod and line and putts and putchers shall be the period between the hour of 12 noon (1200 hours) on Saturday and the hour of 6 o'clock (0600 hours) on the following Monday morning.

b) Migratory trout

i) Instruments other than rod and line and putts and putchers

The annual close season for fishing for migratory trout with instruments other than rod and line and putts and putchers shall be the period from and including the 1st day of September to and including the 31st day of January following.

ii) Putts and putchers

The annual close season for fishing for migratory trout with putts and putchers shall be the period from and including the 16th day of August to and including the 15th day of April following.

iii) Rod and line

The annual close season for fishing for migratory trout with rod and line shall be the period from and including the 8th day of October to and including the 17th day of March following.

iv) Weekly close time for migratory trout

The weekly close time for fishing for migratory trout with any instrument other than rod and line and putts and putchers shall be the period between the hour of 12 noon (1200 hours) on Saturday and the hour of 6 o'clock (0600 hours) on the following Monday morning.

c) Trout (excluding migratory trout and rainbow trout) - rod and line

i) On any lake, pond or reservoir into which or from which salmon and brown trout cannot pass, for the purpose of spawning, the close season for fishing for trout (excluding migratory trout and rainbow trout) with rod and line shall be dispensed with.

ii) In all other waters, the close season for fishing for trout (excluding migratory trout and rainbow trout) with rod and line shall be the period from and including the 8th day of October to and including the 17th day of March following.

d) Rainbow trout - rod and line

i) In those waters of the Rivers Derwent and Amber, including their tributaries, which are above or upstream of their confluence at Ambergate, Derbyshire (NGR SK 346 515), but excluding the stretch of the River Wye from Blackwell Mill (NGR SK 113 727) near Buxton to Cressbrook Mill (NGR SK 173 727) above or upstream of Ashford-in-the-Water and excluding any reservoir or lake formed by the construction of a dam across the valley of those rivers, or across one of their tributaries, the close season for fishing for rainbow trout with rod and line shall be the period from and including the 16th day of November to and including the 15th day of May following

- ii) The close season for fishing for rainbow trout with rod and line in all other waters in the Severn-Trent Region shall be dispensed with.

e) Eels - rod and line

It shall be lawful to fish for eels with a rod and line during the annual close season for freshwater fish in the Severn-Trent Region, provided that the hook used shall have a gape of not less than 12.7 mm (0.5 inches).

f) Freshwater Fish - rod and line

See Appendix 2.

4 The Taking of Immature Trout

No person shall take any fish of a size less than the size prescribed hereunder for the species stated from the area stated. The size of the fish shall be ascertained by measuring the fish from the tip of the snout to the fork or cleft of the tail.

a) Trout (except rainbow trout) and grayling

- i) The waters of the River Severn (including its tributaries) above or upstream of its confluence with the Afon Clywedog (SN 954 847); the waters of the River Vyrnwy (including its tributaries) above or upstream of Dolanog Weir (SJ 067 127); the waters of the River Banwy (including its tributaries) above or upstream of its confluence with the Afon Gam (SJ 017 103); the waters of the River Tanat (including its tributaries) above or upstream of its confluence with the River Rhaeadr (SJ 130 247).

..... 15 centimetres

- ii) All other waters 20 centimetres.

b) Rainbow trout

The waters of the Rivers Derwent and Amber, including their tributaries, which are above or upstream of their confluence at Ambergate, Derbyshire, (NGR SK 346 515), excluding the stretch of the River Wye from Blackwell Mill near Buxton to Cressbrook Mill (NGR SK 173 727) above or upstream of Ashford-in-the-Water and excluding any reservoir or lake formed by the construction of a dam across the valley of those rivers or across one of their tributaries.

..... 20 centimetres

PROVIDED that this byelaw shall not apply in the case of any person who takes any immature (undersized) fish unintentionally if he at once returns the same to the water with as little injury as possible.

5 The Use of Nets and Other Instruments for Salmon and Migratory Trout

a) The kind of nets and other instruments (not being fixed engines) which may be used lawfully in taking salmon and migratory trout shall be as follows:-

- i) Draft nets; landing nets used in connection with rod and line or tailed used as an auxiliary to angling with rod and line, lade nets.
- ii) Lade nets shall be of a single sheet of netting of a mesh measuring when wet not less than 50mm in extension from knot to knot or 200mm round the four sides and which shall be constructed to form a bag or purse attached to a yoke in the shape of a 'V', the widest part of which shall not exceed 3 metres and which shall be fitted with a handstaff to the apex of the yoke.

The lawful manner of using a lade net shall be by one person standing or wading in the water and supporting or holding the net and lifting or scooping any fish.

The use for taking salmon and migratory trout of all other descriptions of nets or other instruments (not being fixed engines) is hereby prohibited.

b) Draft nets shall mean and include all unarmoured nets without bags or pockets worked by more than one person during any portion of the time of their use, and drawn out of the water onto the bank whether from a boat or otherwise for the purpose of securing the fish, and consisting of a single sheet of netting measuring not more than 185 metres in length in the waters of the River Severn below or downstream of the Lower Parting, Gloucester (SO 816 189) and 95 metres in length in all other parts of the area, such measurement to be made when the net is wet.

c) No draft net shall be shot or paid out

- i) from any point within 95 metres from the point at which any other draft net is being or had been drawn in and landed until after the expiration of 20 minutes from the time when such last mentioned net is fully drawn in and landed, or
- ii) from any point within the same draft until after the expiration of 20 minutes from the time when the last net is fully drawn in and landed.

d) No person shall shoot or pay out a draft net except in the following manner, that is to say: by shooting the net from a boat which shall start from the bank to the river and proceed across, or partly across, the river and without unnecessary pause or delay return to the bank from which it started.

e) No person shall leave a rod and line with its bait or hook in the water unattended or out of sight or so that that person shall be unable at any time to take or exercise immediate physical control of or over the said rod and line.

f) No person shall use any form of line otherwise than in connection with a rod.

- g) No person shall take or attempt to take or kill any salmon or migratory trout by any of the following methods, that is to say, by tickling or groping or by removing the water from any river, lake or pond by ladling, baling, draining or pumping.
- h) No person shall trail or troll natural or artificial spinning baits from boats in motion on any river or stream but excluding lakes and reservoirs which may be located on any such river or stream.

6 Labelling of Nets

No person shall use a net, for the purpose of taking salmon or migratory trout, unconnected with a boat, unless there shall have been branded on the yoke or handstaff thereof, or if such a net is used without yoke or handstaff then on a label attached to a conspicuous part thereof, the initials STWA with the number of the licence taken out by the person who by himself, or his agent or servant, uses such net and the date of the year in which such licence is granted.

7 Carrying of Unlicensed Nets

No person shall carry in a boat or vessel whilst being used in fishing for salmon or migratory trout any net (other than a landing net) which is not licensed, or which, if licensed is not branded or has not attached thereto the label (if any) prescribed by Byelaw No 6.

8 Carrying of Nets During the Annual Close Season for Salmon

No person shall during the annual close season for salmon carry or permit to be carried or to remain in or upon any boat any net capable of taking salmon other than a landing net or a net commonly used in the area for sea fishing if carried in a boat or vessel used for that purpose.

9 The Prohibition of Nets in Certain Waters

- a) No person shall use a draft net for taking salmon in such waters between Newnham Ferry (SO 694 115) and Tewkesbury Weir (SO 882 328) except in any case where the draft net is used in a fishery in which a draft net was used for taking salmon between 1 January 1901 and 1 January 1925.
- b) No person shall use a draft net for taking salmon, trout or freshwater fish in any waters which are above or upstream of Tewkesbury Weir (SO 882 328).
- c) No person shall use a draft net for taking salmon, trout or freshwater fish from the River Severn between the Gloucester Navigation Weirs and Tewkesbury Weir.
- d) No person shall use a lave net for taking salmon, trout or freshwater fish in any waters which are above or upstream of the confluence of the Nords Ditch (SO 758 145) with the River Severn at Bollow.
- e) No person shall use a draft net for taking salmon, trout or freshwater fish in any waters of the River Severn which are on the seaward side of an imaginary line from Brimms Pill (OS Grid Reference SO 6990 0685) in the Parish of

Awre to Middle Point (OS Grid Reference SO 7185 0570) in the Parish of Slimbridge.

10 The use of nets and other instruments (not being fixed engines) for non migratory trout, freshwater fish and eels (including elvers)

- a) It shall be lawful to use a rod and line and landing net or taylor used as auxiliaries to angling with rod and line for taking non-migratory trout, freshwater fish or eels.
- b) It shall be lawful to use a hand held net operated by one person for taking elvers. The following conditions shall apply to its use:-
 - i) no person shall fish from a boat which is in motion;
 - ii) the net frame shall be no greater than 1 metre at its widest point and 1.25 metres in overall length;
 - iii) a label issued by the Authority and bearing the licence number shall be attached to the handstaff or headboard.
- c) No person shall fish with more than two rods and lines for freshwater fish or eels at the same time.
- d) No person shall leave a rod and line with its bait or hook in the water unattended or out of sight or so that that person shall be unable at any time to take or exercise immediate physical control of or over the said rod and line.
- e) No person shall use any form of line otherwise than in connection with a rod.
- f) No person shall take or attempt to take or kill any trout, freshwater fish or eels by any of the following methods, that is to say, by tickling or groping the fish or by removing the water from any river, lake or pond by ladling, baling, draining or pumping.
- g) No person shall trail or troll natural or artificial spinning baits from boats in motion on any river or stream but excluding lakes and reservoirs which may be located on any such river or stream.

11 Lures and Baits

No person shall -

- a) in fishing with rod and line for salmon in the Severn area use any float in conjunction with any lure or bait.
- b) in fishing with rod and line for salmon or trout or any fish other than freshwater fish during the annual close season for freshwater fish, use any float or bait (which term includes ground bait) other than artificial or natural fly (which term excludes bloodworms, jokers and other midge larvae), spinners, minnows, worms, prawns or shrimps.

12 Keep Nets

No person shall -

- a) use a keep net (for retaining any kind of fish) during the annual close season for freshwater fish in waters to which such a close season applies.
- b) at any time use a keep net for retaining salmon, trout, the parr or fry thereof.
- c) use a keep net-
 - i) of less than 2.0 metres extended length.
 - ii) with rings or frames less than 35cm in diameter or, if rectangular, less than 35cm by 30cm.
 - iii) with a wider spacing of rings than one ring for each 30cm of length, excluding the top ring.
 - iv) made from knotted mesh.
 - v) made from material in which the holes form less than 60% of the surface area of the net.
 - vi) of the knitted knotless variety with holes larger than 25mm in internal circumference (approximately 8 millimetres in diameter) or smaller than 6mm in internal circumference (approximately 2mm in diameter) and measured when wet.

13 Stocking

No person shall introduce or have in his possession intending to introduce, any live or dead fish or any spawn thereof or natural food of fish (other than bait) from any source into any waters within the Water Authority areas or transfer any fish (including fish for use as live bait) or spawn thereof or natural food of fish from one water to another within the Water Authority area without the previous consent in writing of and subject to such conditions as may be imposed by the Water Authority.

14 Returns of Net and Rod Catches

- a) Any person to whom a licence is issued to fish for salmon, migratory trout, eels and elvers shall by the specified dates in each year make a full and true return to the Authority on the form supplied by the Authority including a statement that no fish have been taken if such is the case. This byelaw shall not apply to those taking eels by rod and line.
- b) For salmon and migratory trout, any return shall be made on or by 31 October in each year. The return shall state the date, weight and place of capture and the number of days the licensee has fished if by rod and line or the number of tides fished if by other method.
- c) For elvers any return shall be made on or by 31 July in each year. The return shall state the weight of fish taken and the number of tides fished in each year.

- d) For eels (not elvers) taken other than by rod and line, a return shall be made on or by 31 December in each year. The return shall state the weight of fish taken and the number of days each net or trap fished.

15 Maintenance of Gratings

The obligation imposed by subsection (1) of Section 14 of the Salmon and Freshwater Fisheries Act 1975 to place and maintain a grating or gratings across any conduit or artificial channel for the purpose of preventing the descent of salmon or migratory trout shall not be enforced during the period between the first day of June and first day of January following; and the obligation imposed by subsection (2) of Section 14 of the Salmon and Freshwater Fisheries Act 1975 to place and maintain a grating or gratings across the outfall of any conduit or artificial channel for the purpose of preventing salmon and migratory trout entering such outfall shall not be enforced during the month of January.

16 Fishing Near Dams

No person shall take or attempt to take fish by rod and line or moveable net within a distance above or upstream of the crests or below or downstream of the toe of the weirs on the rivers as stated below:-

- a) 15 metres above and 45 metres below Shrewsbury Weir (NGR SJ 501 131) on the River Severn.
- b) 15 metres above and 25 metres below Penarth Weir (NGR SO 139 927) on the River Severn, Powick Weir (NGR SO 832 524) on the River Teme and Carreghofa Weir (NGR SJ 254 219) on the River Tanat.
- c) 5 metres above and 15 metres below Tewkesbury Weir (NGR SO 882 328), Maisemore Weir (NGR SO 818 217) and Llanthony Weir (NGR SO 822 182) on the River Severn.
- d) 15 metres above and 35 metres below Diglis Weir (NGR SO 847 535) on the River Severn.

17 Prohibition of Use of Certain Lead Weights

- (1) Subject to paragraph (2) below, no person shall on or after the 1 June 1987 use for taking salmon, trout, freshwater fish or eels in any waters within the Authority's area any fishing line to which is attached, directly or indirectly, any lead in the form of a lead weight.
- (2) Paragraph (1) above does not prohibit the use of a lead weight of 0.06 grams or less, or of more than 28.35 grams.

Interpretation

For the purposes of this Byelaw:-

"lead" includes any alloy or compound of lead;

"lead weight" means split shot or any other thing suitable for weighting fishing lines which is neither incorporated and fully enclosed in the core of a fishing line nor incorporated in the construction of a swim-feeder, a self-cocking float or a fishing lure;

"fishing lure" means any device, including a fishing fly, which is designed to attract fish and which incorporates a fishing hook.

18

The Placing and Use of Fixed Engines for Eels

The placing and use of fixed engines for the purpose of catching eels throughout the Authority's area is hereby authorised in the circumstances as described below;

- a) It shall be lawful to place and use fyke nets, Gloucester wing nets, putcheons or baskets, weir traps and putts for taking eels (not elvers) subject to the following conditions:
 - i) a fyke net shall be a conical net with inscales with not more than three leaders with each leader not exceeding 10m in length. The net excluding leaders shall not exceed 5m in length or 1m at its widest point.
 - ii) a Gloucester wing net shall be a conical net with inscales and with two wings acting as leaders. The overall length of the net, exclusive of the wings but inclusive of the cod end, shall not exceed 25m with each of the two wings not exceeding 7m.
 - iii) a putcheon or basket shall be a trap, baited or unbaited, fitted with a single inscale, or two inscales if double ended, which shall not have a leader. The dimensions shall not exceed 2m in length, 0.75m in height or 0.75m in width.
 - iv) a weir trap shall be a fixed trap incorporated into a weir or out-flow structure, which may be controlled by a sluice, and in which water flows through a grating set to intercept the eels. The use of netting in the construction and use of the trap is prohibited.
 - v) a putt shall be a conical or funnel shaped trap with a round mouth; the dimensions shall not exceed 4 metres in length and 6 square metres in front opening.
- b) The following conditions shall apply to the construction and use of lawful fixed engines
 - i) fyke nets shall have an otter guard fixed so as to prevent access of otters to the first chamber. The otter guard shall comprise a grid which shall be rigid and have openings with 85mm square sides.
 - ii) putts, if used for taking eels on or after 16 August in any year shall have the front section restricted to prevent the capture or access of salmon or migratory trout.
- c) It shall be lawful to place and use putcheons or baskets for taking lampreys.

- d) Each and every net shall be marked with an identity label, which shall have been obtained from the Authority by the licensee at the time of issue of the licence, which shall be fixed to the top of the front ring at the junction with the leader.

19. Prohibition of Gaff

No person shall at any time use a gaff in connection with fishing with rod and line for salmon, migratory trout, trout, freshwater fish or eels.

20. Netting of Shrimps

Between sunset on Saturday and 6 o'clock on Monday morning during the annual and weekly close seasons, no nets shall be used for the taking of shrimps in the estuary of the River Severn.

Appendix 1 Net Limitation Order

(The Net Limitation Order expired on 21 January 1996 and has been replaced by byelaw 9(e) above).

Appendix 2 Freshwater Fish Close Season

The National Rivers Authority in exercise of its powers under the Water Resources Act 1991 the Salmon and Freshwater Fisheries Act 1975 and all other powers enabling it in that behalf has made byelaws which introduced some changes to the close season for freshwater (coarse) fish in England and Wales. These byelaws were confirmed by the Minister on 13 March 1995. The following extracts relate to the Severn-Trent Region.

App 2.1 Interpretation

Except where the context otherwise requires all words and expressions used in these Byelaws shall have the meanings assigned to them by the Salmon and Freshwater Fisheries Act 1975 and the Water Resources Act 1991 or any statutory modifications or re-enactment thereof.

For the purposes of these byelaws

- (a) the meaning of the term drain is not confined to that assigned to it by the Salmon and Freshwater Fisheries Act 1975 or the Water Resources Act 1991.
- (b) any lake, reservoir or pond which discharges to any river, stream, canal or drain shall not itself be regarded as a river, stream, canal or drain.
- (c) all references to existing Regional byelaw numbers are references to the byelaw numbers as printed as at the date hereof.

"Specified Sites of Special Scientific Interest" means those areas which have been notified by the Nature Conservancy Council for England or the Countryside Council for Wales pursuant to the provisions of Section 28(1) of the Wildlife and Countryside Act 1981 and which are also listed in the Annex to these byelaws and shall include parts of areas which have been so notified if only parts of such areas are so listed.

App 2.2 The Annual Close Season for Freshwater Fish

The annual close season for fishing for freshwater fish

- (a) in rivers, streams and drains
- (b) in canals (in the Severn-Trent Region)
- (c) in all waters in the specified sites of special scientific interest

shall be the statutory period that is the period from and including the 15th day of March to and including the 15th day of June following. On all other waters there shall be no statutory close season for freshwater fish.

App 2.3 Fishing for eels by rod and line

During the period from and including the 15th day of March to and including the 15th day of June following fishing by rod and line for eels is authorised on those waters where the statutory close season for freshwater fish has been dispensed with. (see also Byelaw 3(e)).

App 2.4 Interpretation of existing byelaws for the annual close season for freshwater fish

Existing byelaws which contain reference to "the close season for freshwater fish" shall henceforth be read and construed as if the said byelaws apply only to the waters upon which a close season for freshwater fish is imposed (see Byelaw 3) notwithstanding anything to the contrary in the relevant existing byelaws.

ANNEX

SPECIFIED SITES OF SPECIAL SCIENTIFIC INTEREST (in the Severn-Trent region)

In this Annex a group of two letters and six figures identifying or associated with any point represents the map co-ordinates of that point estimated to the nearest one hundred metres on the grid of the national reference system used by Ordnance Survey on its maps and plans.

Derbyshire

Carver's Rock (SK 330 227)
Hilton Gravel Pits (SK 249 315)
Ogston Reservoir (SK 376 602)
Morley Brick Pits (SK 389 418)

Gloucestershire

Old River Severn, Upper Lode (SP 880 331)
Frampton Pools (SO 753 073)
Soudley Ponds (SO 662 112)

Hereford & Worcestershire

Ashmoor Common (SO 852 467)
Bittell Reservoirs (SP 018 750) excluding Lower Bittell Reservoirs.
Grimley Brick Pits (SO 840 605)
Hewell Park Lake (SP 010 690)
Hurcott & Podmore Pools (SO 854 779)
Upton Warren Pools (SO 935 672)
Westwood Great Pool (SO 880 633)
Brampton Bryan Park (SO 360 716)

Leicestershire

Blackbrook Reservoir (SK 458 174)
Barrow Gravel Pits (SK 568 166)
Buddon Wood & Swithland Reservoir (SK 560 145)
Cave's Inn Pits (SP 538 795)
Frisby Marsh (SK 686 174)
Groby Pool & Woods (SK 521 083)

Nottinghamshire

Clumber Park (SK 622 744, SK 643 773)
Holme Pit (SK 536 345)
Rainworth Lakes (SK 583 583)
Thoresby Lake (SK 630 703)
Welbeck Lake (SK 580 729)
Attenborough Gravel Pits (SK 522 341)
Misson Line Bank (SK 715 961)

Shropshire

Berrington Pool (SJ 525072)
Bomere, Shomere & Betton Pools (SJ 504 078)
Brown Moss (SJ 562 395)
Cole Mere (SJ 433 332)
Fenemere (SJ 445 228)
Marston Pool, Chirbury (SJ 296 027)
Shelve Pool (SO 335 979)
Sweat Mere and Crose Mere (SJ 434 304)
White Mere (SJ 414 330)
Morton Pool & Pasture (SJ 301 239)

Staffordshire

Aqualate Mere (SJ 770 205)
Chasewater Heaths (SK 039 080)
Cop Mere (SJ 802 297)
Doxey & Tillington (SJ 906 245)
Maer Pool (SJ 789 384)
Old River Dove, Marston on Dove (SK 238 285)

Warwickshire

Alvecote Pools (SK 249 050)
Brandon Marsh (SP 385 755)
Coleshill and Bannerly Pools (SP 200 860)
Combe Pool (SP 392 794)
Middleton Pool (SP 190 983)
Stockton Railway Cutting and Quarry (SP 440 650, SO 444 643)
Ufton Fields (SP 383 615)
Ensorss Pool (SP 348 903)

West Midlands

Edgbaston Pool (SP 054 841)
Sutton Park (SP 098 974)
Swan Pool and the Swag (SK 040 019)
Fens Pool (SO 920 886)

Notes:

Appendix 3

Fish Population Survey Summary Results

Upper Severn
Lower Severn
Upper Trent
Lower Trent

Appendix 3 Summary Fish Population Survey Results - Upper Severn			
Watercourse	Sites	Purpose	Results
Afon Twrch	5	Acidification	Good populations of salmon and trout in downstream sites with poorer numbers upstream. Good survival of salmon from 1994.
R Severn	5	Acidification	Poorer results than 1994, especially for trout. Two upstream sites still fishless.
R Tanat	5	Salmon index	Good trout at upstream sites, other river sites poorer. Salmon numbers low upstream.
R Rhiew	5	Salmon index	Trout and salmon numbers river generally better than in previous survey. Some individual sites poor in trout
R Clun	14	Trout index	Trout populations mostly good, river similar to previous survey. Crayfish present at several sites.
Staffs/Worcester	1	Responsive	Populations lower following Canal pollution.
R Roden	2	Responsive	Trout population poor, despite stocking in earlier years. Dace of excellent quality.
R Stour	20	CMP	Overall very little difference in population since 1991 but an improvement noted at some sites.
R Meese	2	Responsive	Good population of fish in a section of river which is historically poor due to excessive maintenance.
R Rea	2	Responsive	Poor trout population where the habitat was generally good maybe due to overfishing. Not fished previously.
R Worfe	2	Responsive	Very poor due to low flows.
R Perry	11	Habitat Improvement	Again good numbers of fish associated with the improvements.
R Tern	9	Habitat Improvement	The first survey after the installation of the gravels gave a good result with a greater species diversity.

Appendix 3. Summary Fish Population Survey Results - Lower Severn			
Watercourse	Sites	Purpose	Results
Battleton Brook	1	strategic survey, plus EQ	This brook is subject to periodic pollution problems - minor species only present.
Merry Brook	3	strategic survey, plus WR	This brook is used for irrigation and has been known to dry up in consequence. WQ class 3, minor species only at one site.
Elmley Castle Brk	2	strategic survey, plus EQ	A few coarse fish and minor species present. Dead trout seen following pollution incidents in the past - perhaps worth restocking a few.
Mary Brook & trib	2	strategic survey	Minor species only - appropriate for habitat.
Cow Honeybourne Brook	1	strategic survey, plus WR	Disappointing result - This brook is also used for irrigation purposes but does not dry out - in fact a good flow at time of survey - 1 gudgeon & 1 stone loach only.
R Severn	2 days	Eel sample for other project	Mostly roach and bleak u/s Hanley Castle reasonable head of chub u/s Upton on Severn. Some barbel and an 8lb zander.
R Severn, estuary	1 day	MAFF sample	Good numbers of juvenile sole & common shrimp + a few goby & flounder
Daniels Brook	1	strategic survey plus EQ	Good numbers of eels and sticklebacks - site behind houses containing rubbish with grey discharge from a pipe u/s the site.
Dimmore Brook	1	strategic survey + FD	Small shallow brook, 1 eel + eelers appropriate result.
Shorn Brook	1	strategic survey	brown trout (possibly an escapee), eels & sticklebacks
Newport Brook	1	strategic survey + EQ	Disappointing - no sign of any dace which were seen following a previous pollution - eels & sticklebacks only
Wotton Brook	2	strategic survey + EQ & FD	Good numbers of eels at both sites, and small flounder at d/s site. Blue/green algae present
R Twyver	1	strategic survey + EQ	Good number of eels to 520mm
Sud Brook	1	Strategic survey + EQ	A shallow site in a park in Gloucester - chub, tench, roach, gudgeon & minor species present - possibly from Glos-Sharpness Canal
Morton Brook/ Oldbury Pill	3	strategic survey + EQ	Very good numbers of eels present at upper Morton and Oldbury, with 1 chub & small flounder at Oldbury. Nothing found at the site in Thornbury which suffered pollution 3 times last year.
Rockhampton Rhine	1	strategic survey	Good numbers of eels together with rudd, flounder & sticklebacks
Tach Brook	6	strategic survey	Pleasant to find roach and eels present at the downstream sites together with brown trout as far upstream as Bishops Tachbrook. Minor species at the 2 upstream sites, though signal crayfish were found at the Fosse Way site.
Thelsford Brook	2	strategic survey + EQ	Brown trout present at both sites. Chub & eels also found at upstream site, with minor species plentiful at both sites
Alveston Brook	1	strategic survey	A very small brook containing a few minnows sticklebacks - appropriate for the habitat

Bell Brook	1	strategic survey + EQ	This was surveyed u/s the WRW, nevertheless only sticklebacks were caught
Shottery Brook	2	strategic survey + EQ & FD	Minor species only at the u/s site; small chub, roach & gudgeon at the d/s site together with minor species
Binton Brook	1	strategic survey + EQ	A disappointing result - 1 gudgeon & 2 eels
Marchfont Brook	2	strategic survey + EQ	Disappointing result at the u/s site - 1 gudgeon but a good range of coarse fish at Weston on Avon
Chartcote Brook	2	strategic survey + EQ	Apart from Crucian carp which had escaped a pool at the top site, minor species only
Ferneley/Colliers Brook	2	strategic survey + EQ	Good results at Ayleburton with good numbers of wild brown trout present. Disappointing results at u/s site of Colliers Brook with no fish at all present
Black Brook	1	strategic survey + EQ	Good results- brown trout + eels
Picadilly Brook	2	strategic survey + EQ	Disappointing u/s - no fish at all. Good results d/s with brown trout + large numbers of flounder fry & eels
Elton Brook	1	strategic survey + FD	Good numbers of eels + sticklebacks
Warth Brook	1	strategic survey + FD	Surprising to find a number of brown trout + eels in this dredged reach behind the tidal flap
Cone Brook	1	strategic survey + EQ + trout site	Good numbers of trout still present, although slightly fewer than when last surveyed in 1992
Wolston Brook	1	strategic survey + EQ	No fish caught
Long Lawford Brk	2	strategic survey + EQ	Minor species only u/s, but small chub & gudgeon at the d/s site
Sow Brook	1	strategic survey + EQ	Minor species only - but did include minnow
Winwick Brook	1	strategic survey + EQ	Pleasing to find small brown trout present
Claycoton Brook	1	strategic survey + EQ	Pleasing to find 2 brown trout together with chub, dace, gudgeon, eel and perch
Bitteswell Brook	1	strategic survey	1 eels + minor species
Withy Brook	2	strategic survey + EQ	Disappointing. Minor species only
R Severn at Upton on Severn	1 day	comparison of echo sounders	Good numbers of small fish recorded together with some larger specimens
Smitte Brook	4	strategic survey + EQ	Disappointing results overall with minor species forming the majority of the population at all sites, with a few roach & gudgeon present at Sretton-under-Fosse.
Lens Brook	1	strategic survey	good result. Brown trout, eels, & abundant very small flounder
Blackpool Brook	1	strategic survey (trout site)	very good result. Good head of brown trout
Vostalls Brook	1	strategic survey + WR	pools only - dried out - no fish found
Whetstone Brook	1	strategic survey	Small shallow brook - 1 large eel only
Ley Brook	2	strategic survey	A pleasing result Brown trout present in good numbers + eels & bullheads
Cinderford/Soudley Brook	1	strategic survey + EQ trout site	Good result, good number of brown trout present + eels & bullheads

Longhope Brook	1	strategic survey + EQ	good result 35 brown trout present compared with 12 when last surveyed
Finham Brook	1	strategic survey + EQ trout site	Less trout present than when last surveyed but pleasing to note 8 brook lampreys
Inchford Brook	1	strategic survey + EQ trout site	Similar numbers of B trout to last survey increased numbers of minor species
Canley Brook	1	strategic survey + WR	3 trout present in 1988, but none on this occasion - may be due to low water levels & high temperatures. Minor species present
Breach Brook	1	strategic survey + EQ	Small brook subject to periodic silage pollution 3 sticklebacks only
R Leam	4	strategic survey + EQ	Somewhat disappointing. Minor species only at 2 upstream sites, and small numbers of coarse fish at Sawbridge & Grandborough
Avening Brook/ Nailsworth Stream	1	strategic survey + EQ + trout site	Fewer trout present than when last surveyed but nevertheless a good result for a site immediately d/s a WRW
Horsley Stream	1	strategic survey + EQ + trout site	Good result with increased numbers of both brown and rainbow trout (the site is d/s a trout farm) together with eels
R Cam	1	strategic survey + EQ + trout site	A good result with increased numbers of trout present, together with eels
R Frome	1	strategic survey + EQ + trout site	Good result - 84 brown trout + eels, bullhead
Nailsworth Stream	1	strategic survey + EQ + trout site	Improved results with 29 B.trout caught (compared with 10 in 1992) + eels & numbers of minor species
Painswick Brook	1	strategic survey + EQ + trout site	pleasing result with greater numbers of trout present - habitat now improved with increased cover available since previous bank clearance
Colliers Brook	1	strategic survey	A small silty stream containing a good number of eels
Sturch Brook	1	strategic survey	A small brook with water supply from Tiddenham quarry - poor results with a few small flounder, sticklebacks and eels
R Severn	1 day	echo sounding	
Harvington Brk	1	strategic survey + EQ	the brook was surveyed u/s & d/s the outfall of the WRW. 1 roach fry, minnow & stickleback present
Dagnell End Brook	1	strategic survey	Fewer trout caught than when last surveyed in 1991, but could be due to this years low flow conditions. Problems were experienced d/s this point with high temps & low DO levels.
Tapsters/Preston Bagot Brook	1	strategic survey + trout site	Good result. Good numbers of B trout & dace caught.
R Isbourne	1	strategic survey + trout site	A good result. Increased numbers of B Trout present together with 4 brook lampreys
Dean Brook	1	strategic survey	Poor results - 1 eels and minor species only
Hyde brook	1	strategic survey + EQ	Very poor. No fish caught at all although cover & flow good. ds WRW
Ham Brook	1	strategic survey + EQ	Very poor. No fish caught at all although cover & flow good. d/s WRW

Normans Brook	1	strategic survey + EQ	Very poor. Sticklebacks only-EQ to investigate
Noleham Brook	2	strategic survey	A small, mainly shallow brook. A few chub & roach fry at the d/s site, minor species at both sites
Humber/Small Brook	1	strategic survey	No fish present. No cover - site cleared & brook is known to dry up at times
R Avon, Starebridge	1	strategic survey + trout site	Very good result. Large chub, roach, dace, trout, barbel, perch, eels & minor species
R Dene (Fosse Road Bridge)	1	strategic survey + trout site	Only 1 trout present (4 previously), but coarse fish present. Water levels low at time of survey
Ell Brook	1	strategic survey + trout site	Satisfactory result. Results similar to those obtained in 86 - an improvement on those of 1991
Preston Brook	1	strategic survey + trout site	Less trout than previous survey in 1993, though eel population remains the same. This brook was considerably affected by last years drought conditions, which will have adversely affected the trout population
R Leadon	1	strategic survey + trout site	A good result, trout population has increased somewhat in spite of a fish kill caused by low flows/DO levels in the summer
Glynch Brook	1	strategic survey + trout site	Good result, trout population increased
Coombe Abbey Lake	2 days	strategic survey + echo sounding	The usual netting survey was preceded by a night time acoustic survey which showed fish to be in a clumped distribution in certain areas and a lower density in others. Netting failed locate most of the shoals, but a very good catch of fish was made in the SE corner. This included good numbers of medium sized roach together with specimen roach & bream. Comparatively small numbers of zander were taken & the above fish have obviously survived predation & are now mature fish. An encouraging result
Longdon Brook	2	strategic survey + trout site	The u/s site at Wellend was a repeat trout site where results were good with and increased trout population present. The d/s site also showed a slight improvement.
Chaceley Brook	1	strategic survey	1 small dace + a good number of eels
Mere Brook	1	strategic survey	A good result with a good population of brown trout together with dace, roach & chub
R Frome	1	strategic survey + diel/drin sample + EQ	This site has shown a considerable variation over the years and it is to be hoped that the low numbers of fish present on this occasion is only temporary - possibly due to last years low flow situations
Old Splott Rhine	1	strategic survey + EQ	A small featureless channel running into the estuary at Littleton Warth - a few eels & stickleback only
Mitchells Salt Rhine	1	strategic survey + EQ	A small rhine in industrial Avonmouth. Deep silt bed with oil on the surface - no fish at all
Stap Pill Rhine	1	strategic survey + EQ	A very polluted looking rhine - running black at the time of survey - No fish
Red Rhine	1	strategic survey + EQ	A straight, featureless rhine - weeds recently cleared so no cover available & no fish
Chester Pill	2	strategic survey + EQ	This pill was surveyed both upstream and downstream the WRW. Very good numbers of eels were found at both sites together with small flounder & the occasional stickleback

Oxford Canal	1 day	strategic survey + zander cull	Due to problems with equipment only half the usual length was surveyed. Results were very disappointing with very few fish being caught and only 7 zander removed. The drastic bank/ reed bed clearance carried out by BW since the last survey, whilst benefitting boat traffic has clearly had an adverse effect on the fish.
Jubilee Pools	1	Complaints of poor fishing due to poor cormorant damage	Good numbers of large carp, small roach & bream found. Some evidence of cormorant damage on a small proportion of fish, but majority in good condition. Possibility of stocking with medium sized roach & bream to fill gap for anglers until small fish grow
R Avon	3 days	strategic survey + zander cull	Although zander were not as numerous as on previous culls, predators, (including pike & perch) dominated the population by weight. Good numbers of eels were caught, but numbers of coarse fish (apart from one or two areas) were very low - although low water temperatures & the depth of water in this reach may have contributed to low catches. Barbel, large chub, roach & bleak were seen in Evesham & below Marcliffe weir, together with good numbers of gudgeon below Arrow mouth. Some tench & carp also seen.
R Arrow	2	complaints of poor fishing (due to alleged problem with barbel at Arrow Mill)	Despite practical problems due to high conductivity at time of survey, barbel numbers were down from 11 to 3 c/f last survey and 107 roach & 7 chub were caught c/f 66 & 1 previously. A quick look at the rest of the club waters revealed a good number of chub with only a few barbel. The site d/s Oversley Green WRW also presented practical difficulties with low water levels and high conductivity, so that a shorter reach than previously was fished. Nevertheless 57 good sized roach c/f 27 in 1991 were caught. Fewer numbers of other species were present however. Dace, roach and chub ex-Calverton have been stocked to help redress the situation.
R Avon, Welford	1	Failed EEC limits	Despite problems with high conductivity comparable numbers of roach, eel and gudgeon were caught, with a marginal increase in numbers of tench, perch, chub dace and ruffe. Only 1 pike & no zander caught in the reach. It seems unlikely that the reach has been significantly affected
Larford Lake	1 day	echo sounding	Special survey ref Upper Severn fisheries
R Severn	1 day	beam trawl	Samples were taken at a number of different sites in order to compare the situation in November with that prevailing on 20.9.95 when large samples of small shrimp were taken. Good numbers of shrimp of a larger size were taken from Guscars, and increased numbers of flounder together with sole, whiting sprat, juvenile bass, goby and shore crab were present. An encouraging result.
Draycote	1/2 day	investigate water depths at outlet tower for Severn Trent	Recharged to ST
Stoutshill Pool	1 day net	complaints of poor angling catches	The lake was drained in 1991 & restocked by NRA in 1992. Large numbers of small roach together with common & mirror carp & satisfactory numbers of large bream were caught. The overall biomass was good and the fishery was found to be well balanced & in good order.

Appendix 3. Summary Fish Population Survey Results - Upper Trent

Watercourse	Sites	Purpose*	Results
Bourne	8	cmp	Improved fish populations in 1992/1988 due to a successful re stocking programme with Calverton chub and dace, together with good invertebrate scores this indicates water quality is not a limiting factor on this river, and habitat improvements may help to improve recruitment. as well as the stocked fish the lower part of the river contained good populations of roach and perch.
Churnett	26	Water Quality	Comparison of survey data with that from 1992 shows that the anticipated improvement in fishery status has been realised. The recovery is most striking in the upper reaches particularly down stream of leekbrook stw. Throughout the river there were positive developments in both salmonid and coarse fish populations resulting from restocking and natural recruitment. As the relative importance of water quality constraints recedes, attention may then be focused on other issues such as water resource limitations in the upper reaches and localised habitat improvements.
Tame	14	Water Quality	The Tame upstream of Lea Marston has very sparse fish stocks and there is no evidence of any change since 1987. Downstream of Lea Marston fish stocks were patchily distributed and no spatial or temporal trend could be detected.
Tame	6	Post Pollution	In July 1995 a major fish kill occurred due to de-oxygenating of the river and follow up surveys suggested a loss of biomass averaging 97%; a devastating set back to the development of the fishery.
Cole	10	Water quality	General improvements in the fish stocks due to restocking and natural recruitment were detected. The only stocks available to angling were from Coleshill Hospital downstream.
Cole	2	Post Pollution	The same pollution incident as that , that affected the Tame had a similar effect on this river resulting in a 100% fish kill downstream of Coleshill Hospital.
Trent	5	Water Quality	Five sites on the Trent were surveyed to complete this catchment, the majority of which was covered in 94/5. Results were similar to 1991/2 at these five sites except for Great Haywood which showed an improvement from 16.5 gm2 to 28.4 gm2, including an improvement in species diversity to nine species.
Penk	1	Habitat improvement	One site on the Penk was surveyed to monitor the effect of flow deflectors installed as habitat improvement works. The total weight caught on the survey improved from 32.5 kg in 1994 to 48.83 kg in 1995, the increase being mainly due to greater numbers of pike and roach.
Sence	10	Water Quality	General improvements were detected throughout the catchment. Restocking with chub and dace has been successful on the upper reaches. The lower reaches continue to maintain an excellent fish population dominated by chub and dace. Unfortunately a pollution incident on a major tributary, the sibson brook caused a major fish kill over approximately 5.5km shortly after the completion of these surveys.

Appendix 3. Summary Fish Population Survey Results - Lower Trent			
Watercourse	Sites	Purpose	Results
Ryton	5	CMP	Good fish population in lower reaches with low flow seeming to affect dace in upper reaches. Native brown trout in top section.
Ecclesbourne	4	Post pollution and CMP	Good trout population in upper reaches. Significant Grayling in lower reaches.
Smite	6	Habitat improvement and CMP	Site in upper reaches suffering from low flows. Lower river a very healthy coarse fishery. Habitat improvement structures are effective at holding trout and increasing Dace population.
Poulter	4	Post pollution and CMP	Good mixed fishery at lower end and a potential Brown trout fishery in upper sections. Habitat limited by mine discharge accumulation.
Leen	3	Water quality	Mixed fishery due to escapees and illegal stocking. Low population at lower reaches due to lack of habitat associated with an urban river.
Maun	4	Water quality and Post pollution	Fairly poor populations of fish and smaller species
Meden	6	Water quality and CMP	Trout population in upper reaches replaced by mixed dace and chub where habitat is suitable. High biomass eel fishery.
Wye	7	CMP and water quality	Good quality trout fishery with a lot of natural spawning of brown and rainbow trout.
Eau	3	Water quality	Low population at top end due to low flow problems but a healthy Roach Pike Bream assemblage at lower end where sufficient depth exists.
Sence	3	Habitat improvement	Low flow protection structures an outstanding success holding chub dace and roach.
Grand union Canal/Soar	5	EC fisheries designation	Prolific fishery upstream of Leicester with high biomass and diversity. Good fishery downstream where water is coloured.
Chesterfield Canal	5	EC fisheries designation and grass carp experiment	Grass carp being confined to experimental section and a good fishery elsewhere where cover exists.
Nottingham canal	3	EC fisheries designation	A very good quality coarse fishery
Glantham Canal	6	Ec fisheries designation.	Good fish populations in all of the pounds
Trent	8	Strategic survey and CMP	Good fry recruitment in 1995 and a good overwinter survival
Wreake	4	Sampling for R+D project	Fish successfully surveyed and caught.
St Chads water	6	Still water management project	Recommendations for management achieved.
Birstall Social and Asfordby gravel pits	20	Zander assessment	Management plan for removal in spring 1996

Appendix 4

Fish Rearing and Stocking

**Salmon Stocking
Calverton Production
Coarse Fish Stocking**

Appendix 4(a) Salmonid stocking operations					
River	Reach	Month	Fish stocked		Reason
			Species/ age	Number	
Upper Severn					
Vyrnwy	Llanwyddyn to Llwydiarth	April	Salmon smolts	4000	Annual salmon stocking
Hirnant		April	Salmon smolt	1300	
Camlad		April	Salmon smolt	400	
Teme	Downton	May	Salmon smolt	2038	
			Salmon fry	5000	
Redlake		May	Salmon fry	12000	
Unk		May	Salmon fry	8000	
West Onny		May	Salmon fry	10000	
Gosford Brook		May	Salmon fry	7000	
Nant Llwydiarth		May	Salmon fry	22000	
Afon Iwrch		May	Salmon fry	30000	
Camlad	Marrington Dingle	May	Salmon fry	6000	
Teme	Plymouth Estate	June	Smolt	6000	
Upper Trent					
Bentley Brook	Great Cubley	May	Brown trout	1000	All part of the annual stocking programme to re colonize brown trout into their natural habitat. All fish supplied by Trent Fish Culture Company.
Marston Brook	Wadley			1200	
Marchington Brk	Birch Cross			1500	
Norbury MillFarm	Norbury			300	
Dains Brook	Upper Holme			1000	
Solomons Hollow	Abbey Green			1000	
Leek Brook	Cheddleton Heath			1000	
River Trent	Norton Green			1000	

Cuttle Brook	Bructon Park	May	Brown trout	3000	All part of the annual stocking programme to re colonize brown trout into their natural habitat. All fish supplied by Trent Fish Culture Company.
Little Hay Brook	Little Hay			1000	
Footherley Brook	Sewage Works			1000	
River Blithe	Blithbury			1000	
River Swarbourne	Newborough			500	
River Sence	Newton Burgoland			1000	
	Shackerstone			1000	
Whiston Brook	Longor Hall Farm			1000	
	Bickford			1000	
	Mitton Manor			1000	
Church Eaton Brk	Mitton			1000	
River Blithe	Hamstall Ridware			1500	

Appendix 4(b)

Calverton production and revenue

Year class	Growing season	Age	Chub	Dace	Barbel	Others	Total	Income (£)
1986	1986	Larvae	91000	20700	500		112200	
	1986	0+	19950	13413	300		33663	
	1987	1+	14860	9000	260		24120	836
1987	1987	Larvae	83000	52800	12000		147800	
	1987	0+	51000	22000	12000		85000	
	1988	1+	44070	18400	4455		66925	2607
1988	1988	Larvae	162000	109000	4300		275300	
	1988	0+	81000	48000	500		129500	
	1989	1+	73442	33080	250		106772	4976
1989	1989	Larvae	214000	99000	22000		335000	
	1989	0+	135513	87000	21639		244152	
	1990	1+	134500	71911	19491	14256	240158	7292
1990	1990	Larvae	205000	125000	49000	20000	399000	
	1990	0+	180000	90000	47000	11000	328000	
	1991	1+	172626	45671	44056	10600	272953	10085
1991	1991	Larvae	170000	167000	166000	42000	545000	
	1991	0+	167000	35000	41000	25000	268000	
	1992	1+	117000	34791	38432	19497	209720	9782
1992	1992	Larvae	251000	181000	90000	79000	601000	
	1992	0+	127000	103200	44600	23700	298500	
	1993	1+	124817	100080	42015	23000	289912	13115
1993	1993	Larvae	159000	214000	130000	67000	570000	
	1993	0+	112000	109000	61000	65000	347000	
	1994	1+	122746	129006	46239	63700	361691	19182
1994	1994	Larvae	154000	190000	94000	117000	555000	
	1994	0+	146000	93000	45000	113000	397000	
	1995	1+	114187	91000	41400	143000	389587	23412
	1996	2+	<----- To be counted ----->					
1995	1995	Larvae	170000	165000	60000	125000	520000	
	1995	0+	147539	94000	43861	113000	398400	
	1996	1+	<----- To be counted ----->				0	
	1997	2+	<----- To be counted ----->					
1996	1996	Larvae	175000	140000	66000	155000	536000	
	1996	0+	<----- To be counted ----->				0	
	1997	1+	<----- To be counted ----->				0	
	1998	2+	<----- To be counted ----->					

NB. Figures exclude 2+ production at new site, to be reported in next annual report.

Appendix 4(c). Coarse fish stocking operations

River	Reach	Month	Fish stocked		Reason
			Species	Number	
Upper Severn					
River Severn	Lenchford	November	chub and barbel	1700	Annual Coarse Fish Stocking
	The Hampstall				
	Stourport				
	Ribbesford				
	Bewdley				
	Trimpley				
River Stour	Halesowen	November	dace and roach	2400	
	Haden Hill				
River Severn	Stourport				
	Bewdley				
Area Total				4100	
Lower Severn					
Arrow	Oversley	November	mixed roach, dace and chub	1000	Enhancement of fish stocks
	Arrow			1000	
	Barton			1000	
	Bidford			1000	
	Cleeve Prior			1000	
	Evesham			1000	
	Harvington			2000	
	Twyford			1000	
	Evesham			3000	
	Hampton Ferry			2000	
	Pershore			1000	
	Eckington Bridge			1000	
	Avon Meadows			1000	
	Stratford on Avon			1500	
	Tiddington			1000	
	Stannalls			3500	
Leam	Marton	November	roach, dace and chub	1000	
	Fosse Way Bridge			1000	
	Birdingbury			2000	

Avon	NAC Gates	November	roach, dace & chub	1500	Pollution replacements
	Hillwootton			1500	
Caravan Pool	North Kilworth	January	Crucian	2000	Enhancement of Fish stocks
Area Total				32000	
Upper Trent					
River Trent	Burton	October	Mixed Dace chub	10000	All U/T's allocation of Calverton fish were introduced into the Rivers Trent and Tame Due the seriousness of the mortality in July .
River Tame	Chetwynd Bridge	October	"	6000	
	Elford		"	8000	
	Comberford		"	8000	
	Hopwas		"	8000	
	Tamworth		"	10000	
	Lea Marston		"	6000	
	Kingsbury		"	10000	
	Two Gates		"	4000	
River Trent	Stapenhill	November	Dace	2000	
			Chub	500	
			Roach	1000	
			Barbel	500	
River Tame	Elford	November	Dace	4000	
			Chub	500	
			Roach	2000	
			Barbel	500	
	Hopwas	November	Dace	4000	
			Chub	1000	
			Roach	2000	
			Barbel	100	
	Two Gates	November	Dace	4761	
			Chub	1000	
			Roach	2500	
			Barbel	1000	
	Kingsbury	November	Dace	10000	
			Chub	2000	
			Roach	5000	

	Two Gates	November	Barbel	2000	
Area Total				116361	
Lower Trent					
Derwent	Darley Abbey		grayling	1000	Poor angler catches
Meden	Warsop-Bothamsall	June	barbel	80000	Stocked as fry, Calverton surplus
Amber	S.Wingfield to Bullbridge	December	chub	2000	Poor survey results/fish stocks
			roach	200	
Derwent	Whatstandwell	December	roach	800	Reports of poor angling results
Derwent	Darley Abbey	December	roach	900	Reports of poor angling results
Erewash	Pinxton to Ironville	December	roach	600	Improve stocks as WQ improves
Ryton	Osberton	December	dace	3000	Poor survey results/fish stocks
Meden	u/s Idle confluence	December	barbel	5000	Establishment programme
Area Total				93500	
Regional Total				245961	

Appendix 5

Fish Mortalities

Upper Severn

Lower Severn

Upper Trent

Lower Trent

Upper Severn

Date	Location	Fish killed	Cause
10/04/95	Newport Canal, Basin Section	1 roach 1 mirror carp 3 tench	No sign of pollution, no sign of fish in distress
25/04/95	Wassel Grove Pool	10 + roach 1 + bream 30 carp 10 + tench	Massive infection with skin parasites
02/05/95	Ditton Brook, Ditton Mill, Cleobury	168 trout & bullheads	Discharged water from outlet pipe of Hollywaste Reservoir-high Cl content
03/05/95	Peplow Mill Lake, Nr Market Drayton	100 fish	Failure of weir control to set resulted in draining of lake
02/06/95	Woodstock Pool, Stokebliss	300 roach	Algal Bloom, Low DO
08/06/95	Middle Pool, Fens Pool Complex, Pensnett	1 carp 2 tench	Post spawning stress, Carp pox
08/06/95	Dodford Priory Pool, Dodford	40 rainbow trout	Low DO and above normal levels of ammonia
06/06/95	Winterfold Park Pools, Chaddersley Corbett	6 bream 1 carp	Angler Damage
18/06/95	River Onny, Oxbow, nr Craven Arms	24 dace 28 chub 83 roach	Low flows
18/06/95	Warford Pool, Whitley Pack Hse, Great Whitley	76 carp	Low oxygen levels
12/07/95	Caebitra Brook, Foggy Bottom C/Park	130 brown trout	Silage effluent
09/07/95	River Meese, Aqualate	18 roach 79 perch 4 pike 12 eels	Algae Bloom
11/07/95	Staffs/Worcs Canal, Wolverhampton	12 chub 2200 roach 515 perch 300 bream 1 carp 1000 gudgeon 12472 mixed coarse fish	Raw Sewage Effluent from Barnhurst Sewage Treatment Plant
12/07/95	Birmingham/Worcs Canal, Tibberton	16 chub 1121 roach 45 perch 3 carp 50 gudgeon	Farm effluent
16/07/95	River Camlad, Marrington Dingle	8 chub 202 brown trout 6 grayling	Not Traced
30/07/95	Pool at Knowle Bank Farm, Hopton Wafers	6 roach 4 trout	Low water levels
24/07/95	Isle Pool, Bicton, Shrewsbury	2 carp	Spawning stress, angler damage
20/07/95	Afon Lleiriog, Llanrhaeadr	none found	Slurry seepage
11/07/95	Trout Pool at Ellesmere Quarry, Ellesmere	30 perch 1 roach	Angler damage

Upper Severn

Date	Location	Fish Killed	Cause
13/07/95	River Roden, Rodington	12 roach 5 trout 25 gudgeon 40 bullheads	Heavy storms
26/07/95	Tiddle Brook Pools, Tasley	50 trout	Low Dissolved Oxygen
08/08/95	Shropshire Union Canal, Goldstone Area	5 pike 1 eel	Thunderstorms
05/08/95	Plews Pool, Rosehill	4 barbel	Unknown
21/08/95	Picklescott Brook, Picklescott	3 brown trout	Low flows
12/06/95	Udlington Farm Pool, Bicton, Shrewsbury	30 trout	High pH - Pool limed prior to stocking
14/08/95	Walcot Hall, Lydbury North	2 bream 4 carp	Eutrophication - & Angler Damage
20/08/95	Afon Mule	brown trout, 17 bullheads, stone loach	Farm yard run-off
22/08/95	River Clun, Newcastle-On-Clun	77 trout	River drying up
23/08/95	Stokesay Pool, Stokesay	37 roach	Low Dissolved Oxygen
04/09/95	North Eudon Farm Trout Pool, Bridgnorth	17 brown trout	Low Dissolved Oxygen
01/09/95	Bowman Hill Farm Pool, Plaish	50 trout	Low Dissolved Oxygen
11/09/95	Cound Lodge Pool, Nr Shrewsbury	30 carp	Low Dissolved Oxygen
06/08/95	West Lake Trout Pools, Four Crosses	60 trout	Low Dissolved Oxygen
14/09/95	Black Pools, Welshpool	17 rainbow trout	Temperature shock
08/09/95	Diddlebury Brook, Diddlebury	30 brown trout	Brook drying up
04/08/95	River Carno, Clatter	15 brown trout	Silage spillage
29/09/95	Netherwood House Pool, Nr Tenbury	9 tench 2 koi carp 100 goldfish	Low Dissolved Oxygen
15/11/95	Manor Lane Pool, Halesowen	6 carp	Unknown
18/12/95	Manor Lane Pool, Halesowen	14 carp	Unknown, maybe used as a rubbish tip
07/01/96	Safari Pool & Dome Pool, Bewdley	2 roach 41 bream	High Ammonia levels
18/01/96	Shropshire Union Canal, Frankton	1 roach	Killed by propellor of boat
13/02/96	Upper Crundle End Farm, Abberley	4 trout	Chicken manure washed into pool
01/03/96	Poole Hall Lake, Wolverhampton	9 carp	Fish being examined by Brampton

Lower Severn			
Date	Location	Fish killed	Cause
03/04/95	Ford House Farm Pools	14 Rudd 6 Chub 1 Carp	Cause unknown - possible spawning stress for rudd
04/04/95	Bittern Brook	29 Brown trout	Farm slurry
05/04/95	Wymans Brook	107 Roach 54 Sticklebacks 12 Stoneloach	Vandals open sluice at Pittville Lake & low flow caused by blocking flow to brook
15/04/95	Private Trout Pool - Kenilworth	3 Trout	Pool showing signs of algal activity
20/04/95	Stansfield Grove Kenilworth	40 Carp 10 Sticklebacks 5 Newts 1 Frog	No visual pollution but pool choked with aquatic vegetation
23/04/95	British Legion Pools - Ryton On Dunsmore	250 Roach	White growth/fungus on roach.
02/05/95	River Cam	0	Diesel spill from Ellis Transport
06/05/95	Sow Brook	6 Sticklebacks	400 gallons heating oil from Rugby School to brook
22/05/95	Glos/Sharpness Canal	1 Roach 2 Bream	Unknown combination of boat damage, predatory attack, angler damage.
28/06/95	Clanna Lake	15 Trout	Algal bloom
01/07/95	Conoco Ltd. Warwick Technology Park	30 Mirror carp	Unknown poss parasite - see post mortem report
03/07/95	Norgrove Court Lake	69 Rainbow trout	Unknown- suspect biological
06/07/95	Swanswell Pool - Coventry	400 Perch 200 Sticklebacks	Blue green algal activity - do 140% during daylight
08/07/95	1.5 Miles R. Avon And Stanford Hall Lake	3277 Dace, chub, roach perch, bream, pike, tench, eels	Blue green algal die back in Stanford Res. released into Avon and Stanford Hall lake
11/07/95	Tirle Brook	14 Roach 2 Chub 1 Eels	Unknown probably low do
11/07/95	River Arrow - Arrow Mill Area	1256 Roach, Bream, Pike, Tench	Accumulated detritous washed out of drains in a storm after prolonged dry period.
12/07/95	Ipsley Rectory Pool Nr Redditch	50 Perch 3 Roach	Unsuitable habitat, too shallow, trees, ducks, low do
12/07/95	River Severn - Ripple	2 Bream	Unknown - poss low do
12/07/95	River Leadon - Ledbury (Msf - Hereford Road)	107 Brown trout 2 Stoneloach 25 Sticklebacks 1 Lamprey	Low DO during very hot spell
12/07/95	Beoley Lade Pool	505 Roach 5 Pike	Accumulated detritous from drains reducing already low do
13/07/95	River Sowe	3 Dace 12 Chub 97 Roach 6 Perch 13 Gudgeon	Low DO during hot spell

Lower Sever

Date	Location	Fish killed	Cause
		172 Minor species	
17/07/95	Mainstone Court Moat, Nr. Ledbury	20 roach 100 perch 9 Carp	Low DO during hot spell
17/07/95	Little Avon - 400 Yds. U/S Of Weir	3 Fry	Overnight storms with subsequent run-off, low do flow slowed by weir u/s Pin Mill, Chalfield
17/07/95	Brights Hill Pool - Huntley Estate	22 Brown trout	Low DO as a result of long hot spell
17/07/95	Ardencote Manor - Claverdon	6 Crucian carp	Low DO resulting from excessive organic material
17/07/95	River Chelt	6 Brown trout	Pumping station at Pilgrove failed - sewage to river
20/07/95	River Little Avon	1 Dace 19 Chub 30 Brown trout	Not known prob. low do
24/07/95	River Severn	3 Salmon	Low DO, high silt
03/08/95	Grand Union Canal - Elkington	77 Roach 2 Perch 20 Bream 1 Eel	Dredging operations in progress, very hot conditions, busy boat traffic.
03/08/95	Pool - Cathorpe Manor	10 Roach 30 Carp	Algal bloom, low d-o levels at night, level dropped by approx 24
07/08/95	The Fishery, Hollow Lane, Staplow, Ledbury	13 Grass carp	Low DO, unsuitable stocking
07/08/95	Hollybed Pool, Castlemorton	6 Roach	Algal bloom, low do
07/08/95	River Chelt	13 Brown trout 4 Bullheads	Sewer overflow
10/08/95	Flecknoe Pools	46 Carp	Low DO due to 2 bales barley straw falling in to pool
15/08/95	River Severn - Top Of Longney Sand - Glos. Weirs	22 Salmon 1 Eel	Low DO, large spring tides
22/08/95	Lydney Canal	35 Pike	Low water levels
24/08/95	Carrant Brook	10 Roach 2 Perch 6 Gudgeon	Low do - plug of storm water from industrial estate
28/08/95	Bitteswell Hall Lake	16 Trout	Low do, large flock of geese on water, very heavy infection of argulus
28/08/95	Barrells Park Pool	27	Low do
09/09/95	Sheer Pool, Birlingham	25 Roach 10 Perch 35 Bream	Poss. organic pollution ex Woodfield Farm.
11/09/95	Church End Pool, Twynning	29 Rainbow trout	Low DO
21/09/95	Hawkesbury Hall Farm Pool	2350 Carp 20 Roach	Not known poss slurry leak
25/09/95	Whiteacres Brook, Malvern	38 Dace 11 Chub 1 Roach 3 Brown trout 2 Gudgeon	Pump-failure at Hall-Green p.s.
29/09/95	River Cam	7 Roach	Unknown

Lower Severn			
Date	Location	Fish killed	Cause
		146 Brown trout Bullheads	
08/10/95	Badsey Brook, Broadway	170 Brown trout	Unknown but suspect agricultural pollution
21/10/95	Garden Pool, Kerswell Green Farm, Kempsey	4	Mass of green algae, lge nos. o ducks leading to low do + high levels of ammonia.
23/10/95	Stroud Canal, Bowbridge	4 Roach	Unknown - poss angler damage
23/10/95	Stroud Canal - Framilode	4 Carp	Unknown - section of canal shallow, heavily weeded and thick covering of duck weed.
24/11/95	River Avon - Newbold On Avon	5 Dace 20 Chub 33 Roach 1 Pike	Slug of sewage from Rugby Sewage works
04/02/96	Battleton Brook	22 Dace 4 Chub 52 Roach 65 Gudgeon 13 Sticklebacks 340 Minnows	Unknown - oxygen levels
04/03/96	Horns Ditch - Trib Of Hatherley Brook	1 Tench 19 Eels 14 Sticklebacks	Oil spill
09/03/96	Knightshill Pool Severn Stoke	8	Suspect result of multiple handling from capture to stocking

Upper Trent

Date	Location	Fish killed	Cause
01/04/95	Snibston Discovery Park	6 carp	Unknown
05/04/95	Ashbourne Pond	12 tench	Unknown
07/04/95	Wem Brook	1 chub 1 roach 500 sticklebacks 25 loach 25 bullhead	Water quality
14/04/95	River Tame	38 roach	Stress, Fish trapped
29/04/95	Trent & Mersey Canal	8 roach 2 perch 2 carp	Unknown
05/05/95	Blythe Waters	total roach 200 rudd perch	Fungal infection due to high temperature
05/05/95	Pot Kiln Pool	1 carp 18 gudgeon	Spawning-stress/fungal infection
07/05/95	Cannock Ext Canal	22 roach 3 perch	Unknown (algal bloom?)
10/05/95	Pendigo Pool NEC	53 roach	Spawning stress
09/05/95	Water course adj R Tame	150 roach	Fish trapped-low water
21/05/95	River Hamps	1 trout	Fungal infection
15/05/95	Delamere pool	550 roach	Overstocking
12/06/95	Spon Lane Pond	150 crucian carp	Overstocking
24/06/95	Lifford Reservoir	3 roach 5 perch 3 tench	Hot weather/spawn-stress/angler damage
17/06/95	Sarehole Mill Stream	4 roach ? sticklebacks ? loach ? tadpoles	Pollution from water mill
20/06/95	Birch House Pool num. 3	29 roach 20 bream 1 carp	Post stocking - new pool, not yet established
26/06/95	Birch House Pool num. 1	12 roach 6 bream	Post stocking - new pool, not yet established
28/06/95	Sammys Pool	105 roach 22 perch 400 sticklebacks 300 bitterling	Discharge from storm water pipe
29/06/95	Cudmore Fisheries	10 roach 10 perch 2 bream	Keep net retention in very hot weather
16/06/95	Causley Brook	2000 stoneloach 1500 bullhead 500 sticklebacks	Discharge from STW storm water drain
11/07/95	River Tame	? dace ? roach ? perch ? bream ? pike ? chub	1000's of all species killed - severe de-oxygenation
30/07/95	Babbs Mill Pool	12 roach	Severe algal bloom

Upper Trent			
Date	Location	Fish killed	Cause
	Copt Heath Farm pools	3 bream 5 tench	Low D.O.
17/07/95	Charterhouse Drive pool	7 roach 23 perch	Low d.o. road run off
12/07/95	River Cole	? dace ? roach ? chub ? perch ? gudgeon	1000's of all species killed - severe de-oxygenation
17/07/95	River Blythe	100 chub 10 bream 12 dace 9 pike 20 gudgeon	Unknown linked to thunderstorms
21/07/95	Fleam Pool	510 roach 20 perch 1550 bream 10 pike 3 carp 10 tench	Low D.O.
19/07/95	River Trent	? roach ? perch ? chub ? dace ? bream	1000's of all species killed - severe de-oxygenation
13/07/95	Arm of River Trent	? chub ? roach ? perch ? bream ? pike ? carp ? tench ? barbel	1000's of all species killed - severe de-oxygenation
11/07/95	R Trent to Dove confluenc	? dace ? chub ? roach ? perch ? bream ? barbel	Severe de-oxygenation from River Tame storm water run-off
19/08/95	Forest Farm pool	100 roach 20 perch	Algal bloom
23/07/95	Tittesworth Reservoir	2 chub 2 carp 2 trout	Ergasilus infection
30/07/95	Burslem Park Pool	300 roach 2 carp 20 tench	Low D.O. - low water
16/08/95	Darmellow Manor Pool	4 carp	Low D.O. - low water
29/08/95	Big River Pool	40 roach 2 perch 15 carp	Low D.O.
03/09/95	Donkhill Trout Fishery	60 rainbow trout	Low D.O. + Argulus
07/09/95	Ellenhall Pool	2 perch 5 pike	Diurnal fluctuations in D.O.

Upper Trent

Date	Location	Fish killed	Cause
		16 carp	
08/09/95	Wychnor Lodge Pool	25 rainbow trout	Argulus infestation
15/10/95	Barton Brook	670 stickleback 50 stone loach	Unknown pollution
28/11/95	un-named pool on line of Castle Gresley Brook	12 crucian carp	Sewage over flow
16/02/96	Aldermoor Pool	2 roach	High ammonia
24/02/96	Walsall Canal	1 bream 2 tench	Unknown

Lower Trent			
Date	Location	Fish killed	Cause
11/04/95	Hell/Twyford Brook	950 chub 7 dace 3 bullhead 32 stone loach 92 minnow 24 gudgeon	Possible toxin
12/04/95	Meadow Farm Pond, Clay Cross	27 rudd 8 roach 1 perch	Overstocking
18/04/95	Chilwell School Pond	450 roach 2 bream	Unknown
20/04/95	Windmill Fishery, Spalford	100 roach	Transfer stress
01/05/95	Ashby Ponds, Scunthorpe	6 bream	Unknown
01/05/95	Trib Grace Dieu Brook	30 sticklebacks	Mains flushing
04/05/95	Darley Dale Fish Farm	1668 brown trout	Poison
05/05/95	Bestwood Duck Ponds	150 rudd	Unknown, recently transferred
05/05/95	Haddon Estate Fish Farm	21100 brown trout fry	Poison
05/05/95	White Swan Farm	5 species not known	Unknown, recently stocked
05/05/95	Chesterfield Canal	9 roach 2 pike 3 perch 3 bream 12 carp 3 gudgeon	Gill parasite, possibly caused by chemical damage
12/05/95	Barnstone Gravel Pits	10 carp	Spawning
10/05/95	River Trent at Carlton	75 roach and bream	Trapped in eel nets then released
24/05/95	Whetstone Brook	3 dace 1 chub 2 roach 2 trout 1046 minor species	Unknown
25/05/95	River Soar	82 dace 30 perch 42 chub 260 roach 15 pike 100 minor species	Unknown
29/05/95	River Soar at Littlethorpe	10 dace 6 roach 12 perch	Unknown
23/05/95	River Wye	34 trout 200 bullheads	Pollution
25/05/95	River Wreake	41 chub 4 pike 52 roach 10 perch 45 gudgeon	Pollution
26/05/95	Old Ashby WRW pond	50 perch	Weed/low D.O.
30/05/95	River Derwent	2 rainbow trout	Informant, suspected poison
30/05/95	South Muskham Lake	11 common carp	Spawning
30/05/95	Peatling Pools	10 unknown species	Unknown
05/06/95	Woodsetts Pond	9 carp	Spawning
11/06/95	Binghams Pit	26 pike	Algae/low d.o.
15/06/95	River Wye	12 trout	Unknown
18/06/95	Dale Brook	20 trout	Unknown
18/06/95	Pinxton Wharf	200 roach	Spawning
21/06/95	River Meden	12 unknown species	Unknown

Lower Trent

Date	Location	Fish killed	Cause
22/06/95	Ogston Reservoir	88 roach 1 rainbow trout	Spawning
30/06/95	Black brook	34 trout 200 bullhead	Pollution
04/07/95	Crimea Farm Pond	7 brown trout	Algae/low d.o.
10/07/95	Bestwood Country Park	200 roach	D.O.
12/07/95	River Soar	30 unknown species	Unknown
12/07/95	River Leen	14 dace 48 chub 22 roach 8 perch 1050 minor species	Pollution/low do/ thunderstorms
12/07/95	River Erewash	100 chub 350 gudgeon	Pollution/low do/ thunderstorms
12/07/95	Fairham Brook	36 dace 1 perch 26 chub 22 roach 2 trout 92 gudgeon 11 bullheads 10 minnows	Pollution/low do/ thunderstorms
12/07/95	Chilwell School Pond	23 chub 53 bream 109 roach 204 perch 20 pike 2 tench 1 rudd	Pollution/low do/ thunderstorms
13/07/95	Rothley Brook	5 unknown species	Unknown
13/07/95	Pond at Gamston	3 chub 204 roach	Pond drying up
13/07/95	River Trent	40 dace 140 perch 705 chub 1340 roach 8210 bream 260 barbel	Pollution/low do/ thunderstorms
14/07/95	River Erewash	230 chub 990 roach 1290 perch	Unknown
14/07/95	Binghams Pond	85 bream 12 carp 4 tench 15 minor species	Thunderstorms
14/07/95	River Amber	3 trout	Unknown
14/07/95	Nottingham Canal at Awsworth	5 roach 20 perch	Algae/low do
14/07/95	Thrumpton Hall Lake	5 carp	DO drop
17/07/95	Grantham Canal at Hose	22 tench	Thunderstorms/low do
18/07/95	River Erewash relief channel at Toton	1 chub 41 roach	Storms/low do
21/07/95	Barkby Brook	4 chub	Low flow
24/07/95	Grantham Canal at Cotgrave	65 roach 55 bream 5 tench	Algae/low do
28/07/95	Curtle brook	11000 sticklebacks 200 stone loach	

Lower Trent			
Date	Location	Fish killed	Cause
31/07/95	Ockbrook	1 chub 800 minor species	Pollution
31/07/95	Pond at Rossington	96 roach 200 perch	Low levels/do
01/08/95	Oxton bogs	260 roach 27 perch	Algae/do/high temp
01/08/95	Cottam PS lakes	3 bream 15 pike 155 eel	Do drop
01/08/95	Conveyor pond, Lound	10 carp	Parasite
07/08/95	old Dalby Pool	1 carp	Low do
13/08/95	Wymondham Brook	5 roach 20 minnow	Pollution
14/08/95	Cavendish Lake, Mansfield	30 roach 1 bream 2 gudgeon	Algae/do
17/08/95	Melton Brook	300 minor species	Pollution
17/08/95	Kingstone Brook	2 chub 1500 minor species	Stream dried up
17/08/95	Ashgrove Pond, Egginton	150 trout	Works by owner
21/08/95	Rufford Lake	100 roach 1200 perch	Post stocking
22/08/95	Clough Wood pool Darley	1500 roach	Pool dried up
25/08/95	Pennytown Ponds, Alfreton	2 roach 3 carp	Disease
26/08/95	Bagthorpe Brook	11 trout 1500 sticklebacks 200 bullheads	Pollution
04/09/95	River Erewash	12 chub 52 roach 800 sticklebacks	Pollution
16/09/95	The Beck, Halam	48 trout 250 minor species	Pollution
24/09/95	Grangemill Pond	4 carp	Disease
02/10/95	River Ryton, Worksop	3 unknown species	Pollution
06/10/95	Ponds at Weston on Trent	2 pike	Deliberately killed
10/10/95	River Lathkill	19 trout	Desilting works
14/10/95	Bentley Brook	1 carp 15 trout 100s sticklebacks 15 trout 100 sticklebacks	Injury caused by dewatering
20/10/95	Bradwell brook	6 trout	Dried up
21/10/95	Willington Gravel Pit	52 bream	Unknown
21/10/95	Private pond, Stanton	1500 roach 1500 bream	Leaf decay/do
21/10/95	Welby brook	42 roach 1 gudgeon	Pollution
09/11/95	Pebbley res	4 roach	Dewatering
16/11/95	Grangemill Pond, Winster	6 carp	Dewatering
25/11/95	River Derwent, Belper	1 chub	Dewatering
11/12/95	Excavator Pond	20 roach	Pollution
04/01/96	Hatfield Waste Drain	39 roach 474 bream 1 pike	Pollution
05/01/96	Braunstone park pool	7 roach 4 perch 10 bream 12 carp	Disease

Lower Trent

Date	Location	Fish killed	Cause
09/01/96	Emperor Lake, Chatsworth	4 roach 6 perch 54 bream	Unknown probably ice thaw
17/01/96	ditto	6 perch 10 roach 154 bream	ditto
22/01/96	River Erewash	5 dace 10 chub 85 roach	NRA Flood defence works
30/01/96	Summerpool Brook	350 sticklebacks	Pollution
01/02/96	River Erewash	2 chub 103 roach	Iced up
06/02/96	STW WRW Wanlip	1000 roach	Unknown
10/02/96	Braunstone Park Lakes	6 roach 4 perch 6 carp	Pollution
14/02/96	Ponds at Braunstone	15 unknown	Weed/low do
23/02/96	Grand Union Canal	2 unidentified	Pollution
05/03/96	Braunstone Park Lakes	10 carp	Pollution
08/03/96	River Amber	4 trout	Unknown
23/03/96	Dollar Pond, Gunthorpe	8 bream 4 tench 1 eel	Unknown
25/03/96	ditto	4 tench 1 eel 2 chub 55 bream 1 pike 6 tench	ditto