

ENVIRONMENT AGENCY

**ELECTRIC FISHING SURVEY
(DROUGHT 1996 PROJECT)**

FINAL REPORT

AUGUST 1997



*AQUATIC POLLUTION AND
ENVIRONMENTAL MANAGEMENT*


**ELECTRIC FISHING SURVEY
(DROUGHT 1996 PROJECT)**

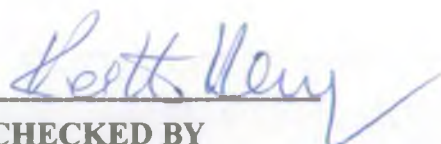
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ENVIRONMENT AGENCY



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ELECTRIC FISHING STUDY
(DROUGHT IAW TRACT)

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DATE OF ISSUE: 11 August 1997

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1. INTRODUCTION

During the spring and summer of 1997, APEM Ltd were commissioned by the Environment Agency to undertake fish population surveys of 34 sites within the Central Area, North West Region.

This report summarises the findings of the fish population surveys undertaken from 12/3/97 to 11/7/97.

2. OBJECTIVE

To provide fish population data for the Environment Agency on a number of catchments for an investigation of the impact of the recent 1 in 300 year drought event and associated drought orders.

3. SURVEYS AND METHODOLOGY

3.1 Preliminary Survey

In order to provide an accurate assessment of team size and equipment required, APEM staff undertook a preliminary survey of the sites on the 11th and 12th November 1996. Where grid references were not supplied sites were chosen for their representativeness of the stretch identified.

3.2 Sites

Each site is described in the results section of this report detailing the precise location and the date fished. Additional information can be gained from the photographic record provided in a Supplementary Report and the field survey sheets located in Appendix B of this report.

Note

The site on the River Brock at Sandholme Bridge (area) could not be located as Sandholme Bridge crosses the River Calder, this site was therefore not included in the survey.

3.3 Methodology

In all cases the methodology employed was the same as specified in "Surveying of Rivers by Electric Fishing, Method of Working" supplied with the tender documents. In addition, all electric fishing operations were in compliance with the EA Code of Practice for Safety In Electric Fishing Operations.

Each site was fished using pulsed DC at a current of less than 0.25 amps. A minimum of 50 linear metres per site was surveyed. Sites were fished in a single run, upstream towards a stop net. At several sites longitudinal channel separation was undertaken due to the width of the river. The two halves of the channel were fished separately to maintain efficiency and the catches combined for analysis.

Fish were anaesthetised with 2 phenoxy-ethanol prior to processing. Salmon and trout juveniles were counted and fork length measured to the nearest 5 mm with a view to providing a Peterson plot for the separation into 0+ and >0+ fish. In addition, scale analysis was used to confirm fish age where separation proved difficult.

The density of fish was expressed per 100 m² of river surveyed. For major coarse fish species, the number of individual fish and their total biomass was recorded. Numbers of minor coarse fish (stickleback, bullhead, stoneloach, minnow) were counted for each site. The raw fisheries data is shown in Appendix B of this report.

4. RESULTS

4.1 River Douglas

4.1.1 General Information

Site	Grid Reference	Identifier	Date Fished
Horwich* ¹	SD 634 125	DO 1	17/3/97
D/S Rivington	SD 630 117	DO 2	17/3/97
U/S Horwich STW	SD 623 111	DO 3	17/3/97
Pearl Brook U/S STW	SD 628 108	DO 4	17/3/97

*¹ The site at Horwich was moved approximately 300 metres downstream as access was restricted as a result of road closure.

4.1.2 Survey Data

Site	Length (m)	Average Width (m)	Average Depth (m)	Max. Depth (m)	Area (m ²)
DO 1	50	4.42	0.13	0.24	221
DO 2	50	3.35	0.35	0.53	167.5
DO 3	50	1.75	0.26	0.45	87.5
DO 4	50	2.22	0.18	0.35	111

4.1.3 Fisheries Data

Site DO 1 (Horwich)

Classification	Total Number Caught	Density (100 m ²)	Biomass (g per 100 m ²)
Brown Trout >0+	12	5.4	-
Brook Lamprey	1	0.5	0.5
Ammocoete	6	2.7	-

Site DO 2 (D/S Rivington)

Classification	Total Number	Density (100 m ²)	Biomass (g per 100 m ²)
Brook Lamprey	1	0.6	1.2
Ammocoete	6	3.6	-
Minor Coarse Fish	13	7.8	-

Site DO 3 (U/S Horwich STW)

Classification	Total Number	Density (100 m²)	Biomass (g per 100 m²)
Brown Trout >0+	3	3.4	-
Minor Coarse Fish	3	3.4	-

C

Site DO 4 (Pearl Brook U/S STW)

Classification	Total Number Caught	Density (100 m²)	Biomass (g per 100 m²)
Brown Trout >0+	36	32.4	-
Minor Coarse Fish	5	4.5	-

A

4.2 River Brock

4.2.1 General Information

Site	Grid Reference	Identifier	Date Fished
Between Jack Anderton Bridge and Snape Lane	SD 566 452	B1	20/3/97
Brock Mill Lane	SD 549 432	B2	26/3/97
Myerscough College	SD 496 402	B4	20/3/97
New Draught Brook at New Draught Bridge	SD 479 401	B5	20/3/97

4.2.2 Survey Data

Site	Length (m)	Average Width (m)	Average Depth (m)	Max. Depth (m)	Area (m ²)
B1	50	5.96	0.17	0.32	298
B2	50	7.02	0.28	0.80	351
B4	70	8.43	0.30	0.55	590
B5	50	5.15	0.42	0.59	258

4.2.3 Fisheries Data

Site B1 (Between Jack Anderton Bridge & Snape Lane)

Classification	Total Number Caught	Density (100 m ²)	Biomass (g per 100 m ²)
Brown Trout >0+	10	3.4	-
Eel	2	0.7	151.3
Minor Coarse Fish	3	1	-

Site B2 (Brock Mill Lane)

Classification	Total Number	Density (100 m ²)	Biomass (g per 100 m ²)
Brown Trout >0+	8	2.3	-
Eel	3	0.9	166.1
Minor Coarse Fish	17	4.8	-

Site B4 (Myerscough College)

Classification	Total Number	Density (100 m²)	Biomass (g per 100 m²)
Brown Trout >0+	10	1.7	-
Chub	1	0.2	54.4
Eel	10	1.7	68.8
Minor Coarse Fish	8	1.4	-

Site B5 (New Draught Brook at New Draught Bridge)

Classification	Total Number Caught	Density (100 m²)	Biomass (g per 100 m²)
Brown Trout >0+	1	0.4	-
Dace	8	3.1	71.3
Eel	1	0.4	2.7
Minor Coarse Fish	4	1.6	-

4.3 River Calder

4.3.1 General Information

Site	Grid Reference	Identifier	Date Fished
Between Salteford Bridge and Hurstwood	SD 874 316	C1	21/3/97
Between Salteford Bridge and Rowley Lake	SD 866 323	C2	21/3/97
Between Lee Green Res. and Hell Clough	SD 877 336	C3	12/3/97
Between Hell Clough and River Brun	SD 862 335	C4	12/3/97
Between Caldwell Res. and Pathole Brook	SD 899 364	C5	21/3/97
Between Laneshaw Res. and Monkroyd	SD 944 414	C6	21/3/97
Between Monkroyd and Laneshaw Bridge	SD 924 407	C7	21/3/97
Colne Water	SD 890 397	C8	26/3/97

4.3.2 Survey Data

Site	Length (m)	Average Width (m)	Average Depth (m)	Max. Depth (m)	Area (m ²)
C1	50	3.81	0.20	0.37	191
C2	50	6.34	0.25	0.60	317
C3	51	2.04	0.09	0.17	104
C4	64	2.23	0.16	0.32	143
C5	80	0.94	0.18	0.30	75
C6	50	2.30	0.08	0.22	115
C7	50	3.23	0.21	0.60	162
C8	50	7.01	0.34	0.43	351

4.3.3 Fisheries Data

Site C1 (River Brun #1, Between Salteford Bridge & Hurstwood)

Classification	Total Number Caught	Density (100 m ²)	Biomass (g per 100 m ²)
Brown Trout >0+	29	15.2	-

A

Site C2 (River Brun #2, Between Salteford Bridge & Rowley Lake)

Classification	Total Number	Density (100 m ²)	Biomass (g per 100 m ²)
Minor Coarse Fish	85	26.8	-

E

Site C3 (Swinden Water #1, Between Lee Green Res. and Hell Clough)

Classification	Total Number	Density (100 m ²)	Biomass (g per 100 m ²)
Brown Trout >0+	9	8.7	-
Minor Coarse Fish	28	26.9	-

B

Site C4 (Swinden Water #2, Hell Clough and River Brun)

Classification	Total Number Caught	Density (100 m ²)	Biomass (g per 100 m ²)
Brown Trout >0+	1	0.7	-
Minor Coarse Fish	44	30.8	-

D

Site C5 (Catlow Brook, Between Caldwell Res. and Pathole Brook)

Classification	Total Number Caught	Density (100 m ²)	Biomass (g per 100 m ²)
Brown Trout >0+	6	8	-

B

Site C6 (River Laneshaw #1, Between Laneshaw Res. and Monkroyd)

Classification	Total Number Caught	Density (100 m ²)	Biomass (g per 100 m ²)
Brown Trout >0+	3	2.6	-

D

Site C7 (River Laneshaw #2, Between Monkroyd and Laneshaw Bridge)

Classification	Total Number Caught	Density (100 m ²)	Biomass (g per 100 m ²)
Minor Coarse Fish	5	3.1	-

E

Site C8 (Colne Water)

Classification	Total Number Caught	Density (100 m ²)	Biomass (g per 100 m ²)
Brown Trout >0+	1	0.3	-
Minor Coarse Fish	12	3.4	-

D

4.4 River Hodder

4.4.1 General Information

Site	Grid Reference	Identifier	Date Fished
Above Hammerton Hall* ²	SD 718 538	HO 5	11/7/97
Below Holmehead Bridge	SD 717 528	HO 6	11/7/97
Slaidburn Green	SD 713 523	HO 7	9/6/97
Burholme Bridge	SD 658 481	HO 15	11/7/97

*² The site below Hammerton Hall was moved approximately 300 metres upstream as access was restricted as a result of construction work by the landowner.

4.4.2 Survey Data

Site	Length (m)	Average Width (m)	Average Depth (m)	Max. Depth (m)	Area (m ²)
HO 5	50	7.66	0.28	0.52	383
HO 6	50	10.8	0.34	0.68	541
HO 7	50	17.0	0.17	0.28	850
HO 15	50	14.2	0.30	0.65	710

4.4.3 Fisheries Data

Site HO 5 (Above Hammerton Hall)

Classification	Total Number Caught	Density (100 m ²)	Biomass (g per 100 m ²)
Salmon >0+	1	0.3	-
Brown Trout 0+	2	0.5	-
Eel	2	0.5	189.8
Minor Coarse Fish	11	2.9	-

Site HO 6 (Below Holmehead Bridge)

Classification	Total Number	Density (100 m ²)	Biomass (g per 100 m ²)
Eel	1	0.2	20.7
Minor Coarse Fish	3	0.6	-

Site HO 7 (Slaidburn Green) - Scale Analysis

Age at Length for Salmon Caught in June 1997

Age	Mean Length (mm)	Range (mm)	Number of Fish Analysed
0+	41	35-55	7
>0+	94	>55	3

Age at Length for Brown Trout Caught in June 1997

Age	Mean Length (mm)	Range (mm)	Number of Fish Analysed
0+	43	30-55	5
>0+	128	>50	2

Site HO 7 (Slaidburn Green)

Classification	Total Number	Density (100 m ²)	Biomass (g per 100 m ²)
Salmon 0+	13	1.5	-
Salmon >0+	23	2.7	-
Brown Trout 0+	7	0.8	-
Brown Trout >0+	2	0.2	-
Eel	2	0.2	87.1
Minor Coarse Fish	89	10.5	-

D
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D

Site HO 15 (Burholme Bridge)

Classification	Total Number Caught	Density (100 m ²)	Biomass (g per 100 m ²)
Salmon 0+	5	0.7	-
Brown Trout 0+	1	0.2	-
Brown Trout >0+	3	0.4	-
Eel	11	1.5	305.9
Minor Coarse Fish	19	2.7	-

D
D
D

4.5 Westfield Brook

4.5.1 General Information

Site	Grid Reference	Identifier	Date Fished
Sparting Brook at Blake Hall	SD 536 384	W1	12/3/97
Barton Brook at Barton Hall	SD 521 364	W2	12/3/97
Westfield Brook at Westfield Bridge	SD 540 380	W3	12/3/97

4.5.2 Survey Data

Site	Length (m)	Average Width (m)	Average Depth (m)	Max. Depth (m)	Area (m ²)
W1	51	3.5	0.20	0.38	179
W2	52	5.1	0.21	0.54	265
W3	63	4.0	0.31	0.68	252

4.5.3 Fisheries Data

Site W1 (Sparting Brook at Blake Hall)

Classification	Total Number Caught	Density (100 m ²)	Biomass (g per 100 m ²)
Eel	1	0.6	6.7
Minor Coarse Fish	4	2.2	-

Site W2 (Barton Brook at Barton Hall)

Classification	Total Number	Density (100 m ²)	Biomass (g per 100 m ²)
Eel	3	1.1	67.5
Minor Coarse Fish	15	5.7	-

Site W3 (Westfield Brook at Westfield Bridge)

Classification	Total Number	Density (100 m ²)	Biomass (g per 100 m ²)
Eel	5	2	234.1
Minor Coarse Fish	19	7.5	-

4.6 River Dunsop

4.6.1 General Information

Site	Grid Reference	Identifier	Date Fished
Ford Above Last Farm	SD 631 550	BR 1	9/7/97
Between Farms	SD 645 543	BR 2	9/7/97
Above Whitendale Farm	SD 656 555	WH 1	9/7/97
Below Whitendale Farm	SD 661 546	WH 2	9/7/97
Below Whitendale Farm	SD 657 539	WH 3	9/7/97

4.6.2 Survey Data

Site	Length (m)	Average Width (m)	Average Depth (m)	Max. Depth (m)	Area (m ²)
BR 1	50	2.8	0.19	0.35	140
BR 2	50	2.7	0.21	0.54	265
WH 1	63	4.0	0.31	0.68	252
WH 2	50	4.9	0.12	0.25	245
WH 3	50	6.6	0.18	0.40	330

4.6.3 Fisheries Data

Site BR 1 (Ford Above Last Farm) 6
 No Fish Caught

Site BR 2 (Between Farms)

Classification	Total Number Caught	Density (100 m ²)	Biomass (g per 100 m ²)
Brown Trout 0+	4	1.5	-
Brown Trout >0+	13	4.9	-

D
C

Site WH 1 (Above Whitendale Farm)

Classification	Total Number	Density (100 m ²)	Biomass (g per 100 m ²)
Brown Trout 0+	2	0.8	-
Brown Trout >0+	29	11.5	-

D
A

Site WH 2 (Below Whitendale Farm)

Classification	Total Number	Density (100 m ²)	Biomass (g per 100 m ²)
Brown Trout 0+	5	2	-
Brown Trout >0+	20	8.2	-

D
B**Site WH 3 (Below Whitendale Farm)**

Classification	Total Number	Density (100 m ²)	Biomass (g per 100 m ²)
Brown Trout 0+	7	2.1	-
Brown Trout >0+	11	3.3	-

D
C

4.7 Tarnbrook Wyre

4.7.1 General Information

Site	Grid Reference	Identifier	Date Fished
TB 1	SD 598 557	T1	10/6/97
Tarnsdyke Clough, At The Ford	SD 588 557	T2	10/6/97
River Grizedale, Rakehouse Barn	SD 564 555	T3	10/6/97
Joshua Beck, US Confluence Parsons Beck	SD 551 545	T4	9/7/97
Damas Gill, Heversham House	SD 520 551	T5	10/6/97

4.7.2 Survey Data

Site	Length (m)	Average Width (m)	Average Depth (m)	Max. Depth (m)	Area (m ²)
T1	50	4.3	0.16	0.36	215
T2	50	2.7	0.08	0.11	135
T3	50	2.6	0.09	0.19	130
T4	50	0.7	0.10	0.14	35
T5	50	2.5	0.10	0.22	125

4.7.3 Fisheries Data

Site T1 (TB 1)

Classification	Total Number Caught	Density (100 m ²)	Biomass (g per 100 m ²)
Brown Trout >0+	5	2.3	-

Site T2 (Tarnsdyke Clough, At The Ford)
No Fish Caught

Site T3 (River Grizedale, Rakehouse Barn)
No Fish Caught

Site T4 (Joshua Beck, US Confluence Parsons Beck)

Classification	Total Number Caught	Density (100 m²)	Biomass (g per 100 m²)
Brown Trout 0+	35	100.1	-
Minor Coarse Fish	2	5.7	-

Site T5 (Damas Gill, Heversham House)

Classification	Total Number	Density (100 m²)	Biomass (g per 100 m²)
Brown Trout 0+	12	9.6	-
Brown Trout >0+	23	18.4	-
Eel	4	3.2	519.2

5. PETERSON PLOTS

Figure 1 Length Frequency Distribution for Brown Trout at Site Do 4

March 1997

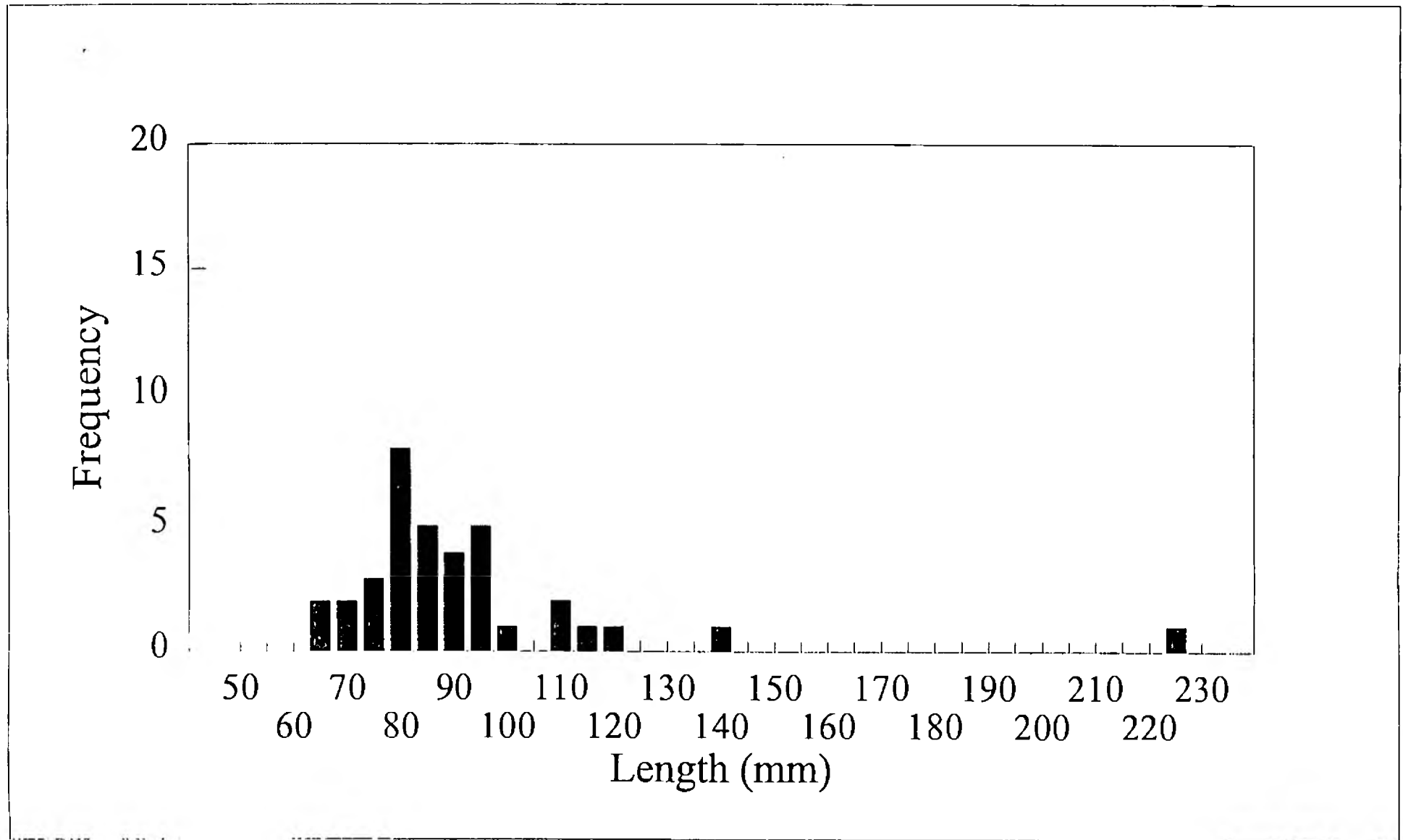


Figure 2 Length Frequency Distribution for Brown Trout in the River Douglas

March 1997

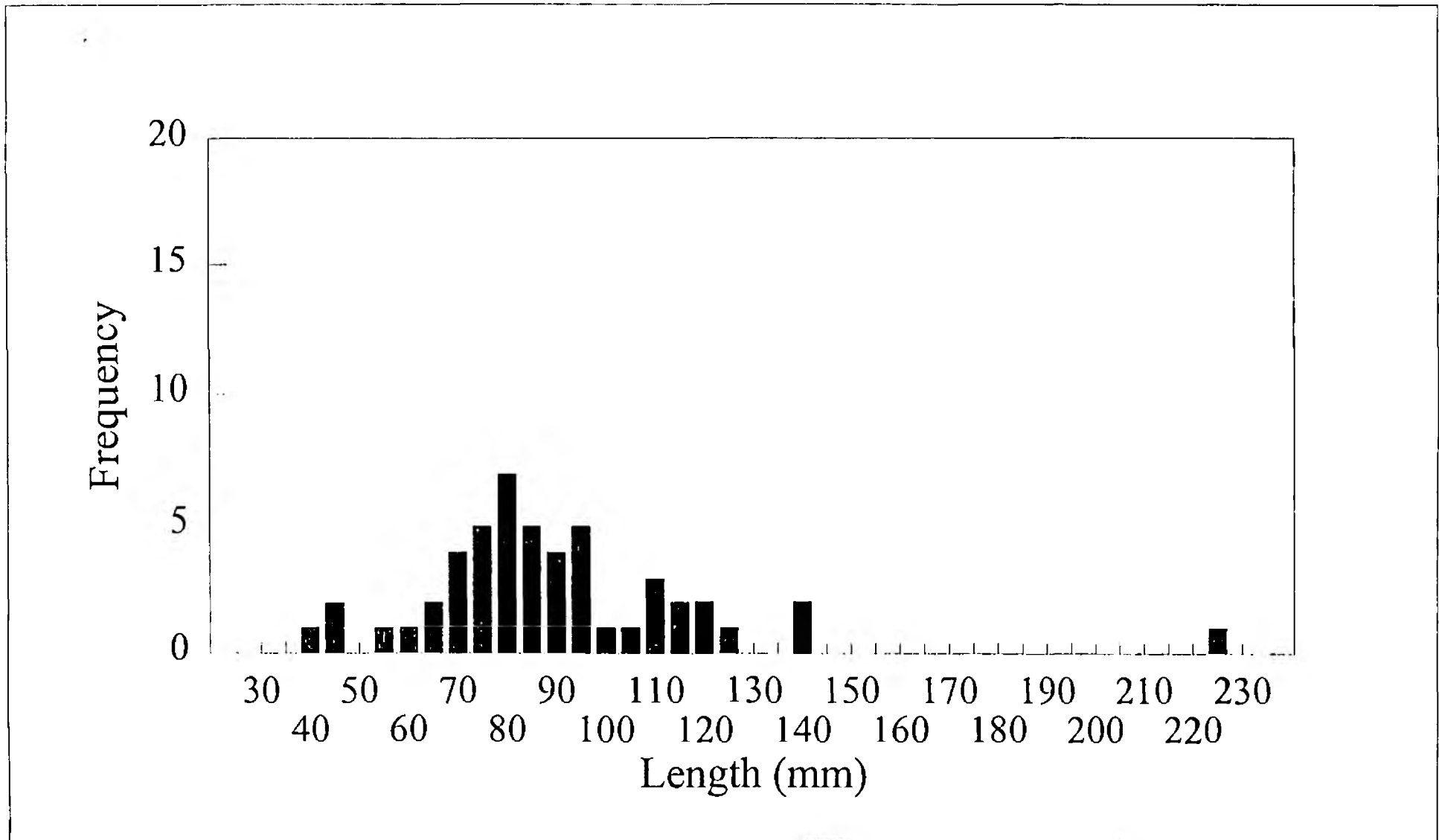


Figure 3 Length Frequency Distribution for Brown Trout in the River Brock

March 1997

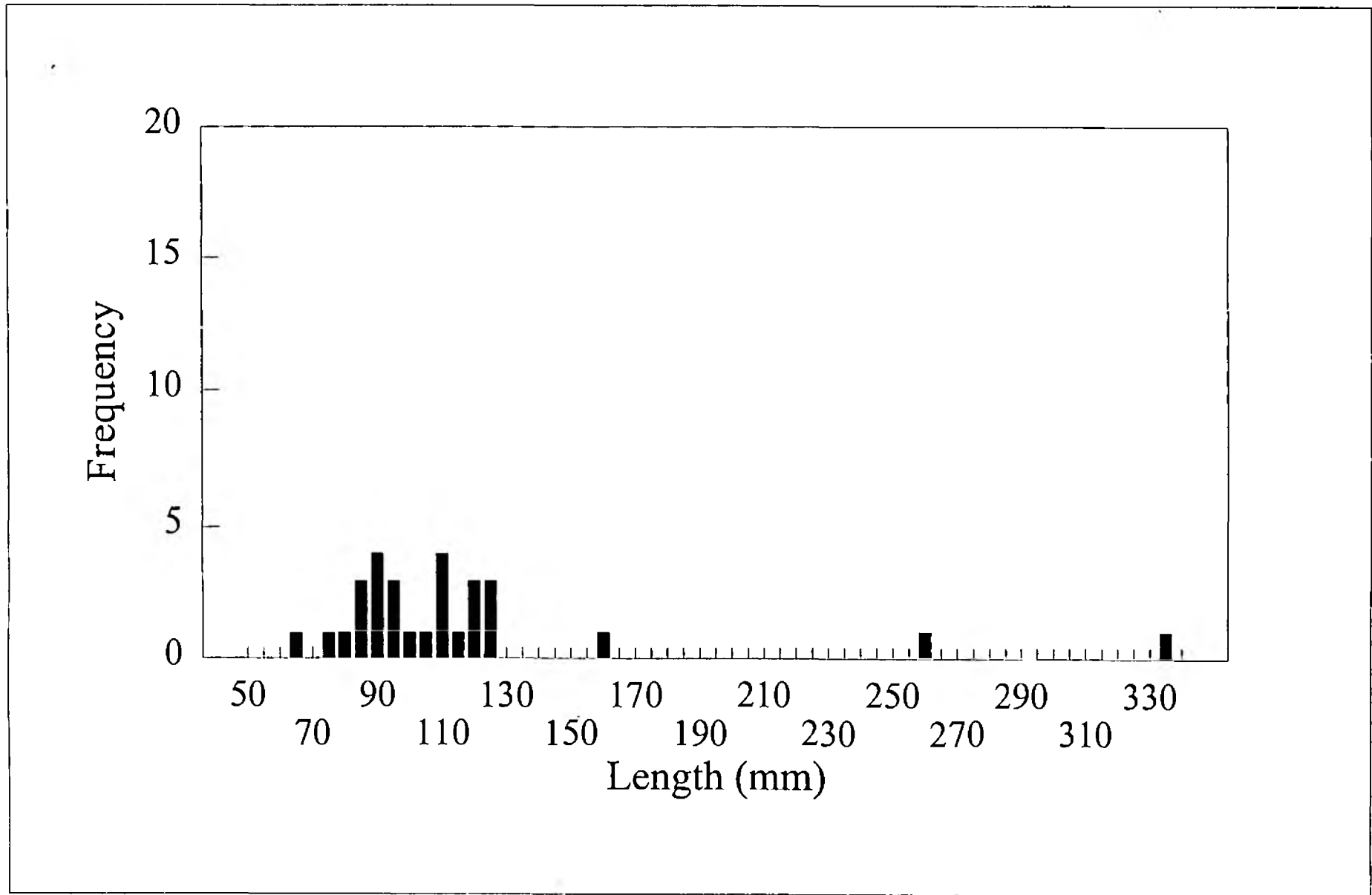


Figure 4 Length Frequency Distribution for Brown Trout at Site C1

March 1997

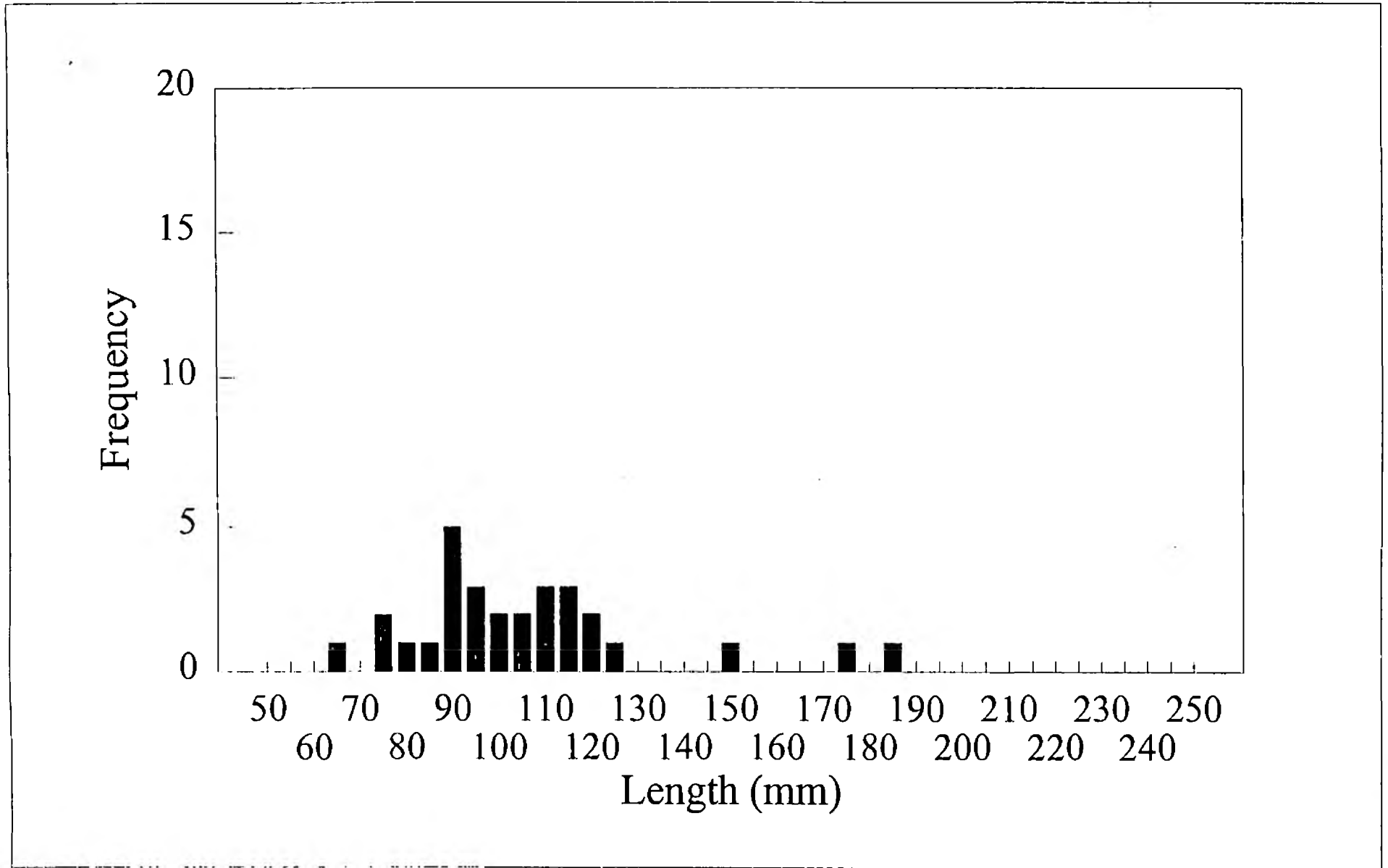


Figure 5 Length Frequency Distribution For Brown Trout in the River Calder

March 1997

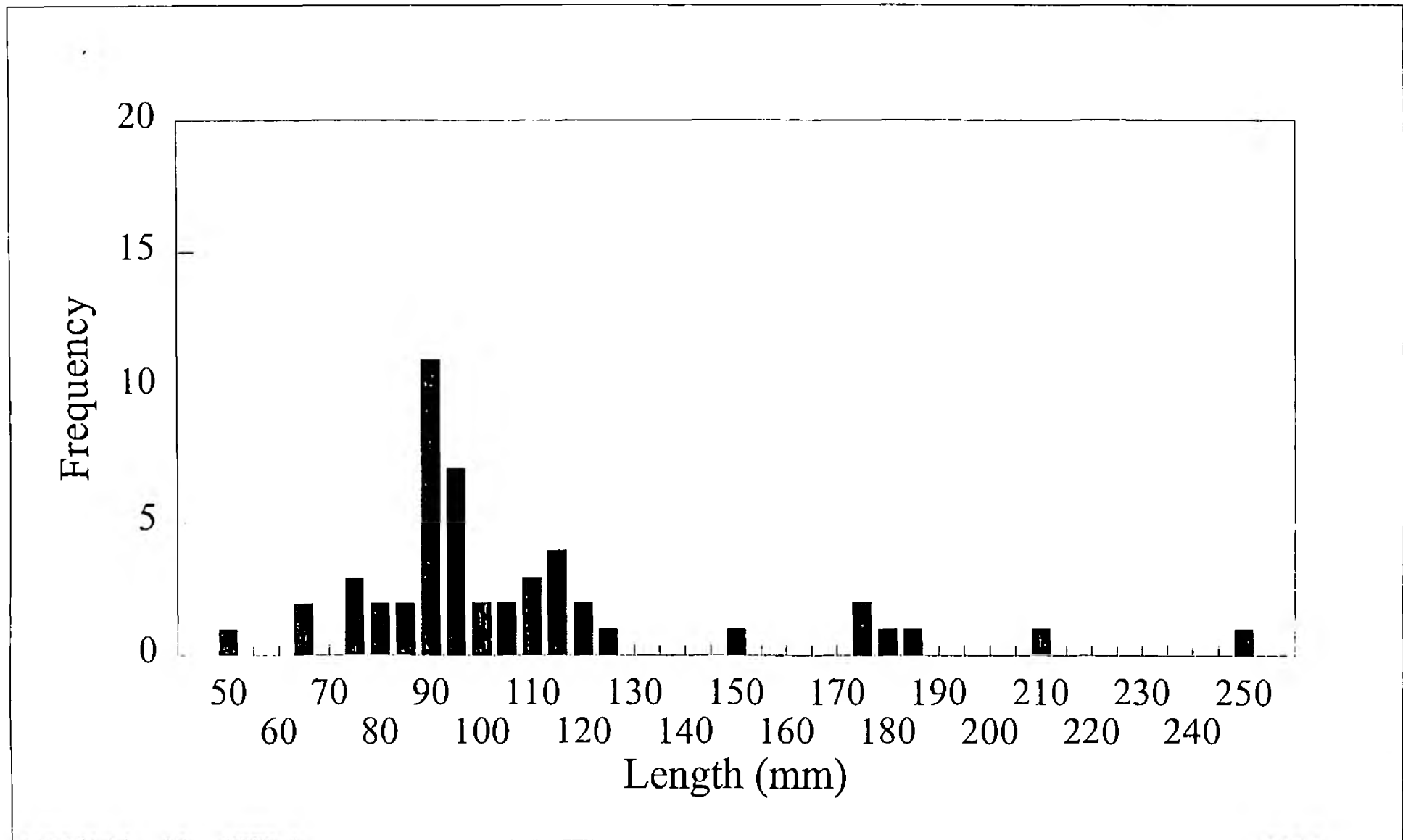


Figure 6 Length Frequency Distribution for Salmon at Site Ho 7

June 1997

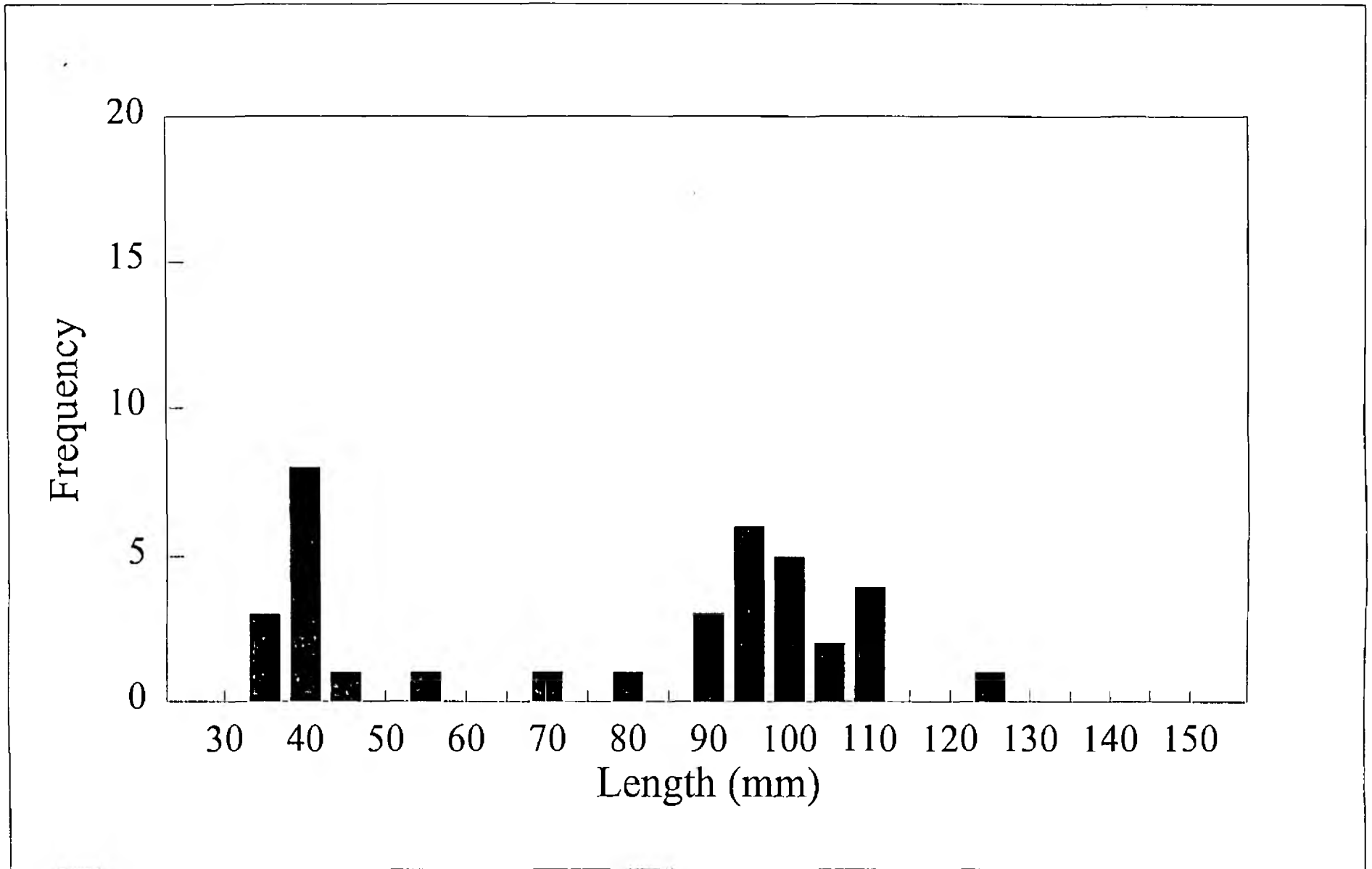


Figure 7 Length Frequency Distribution for Brown Trout at Site Ho 7

June 1997

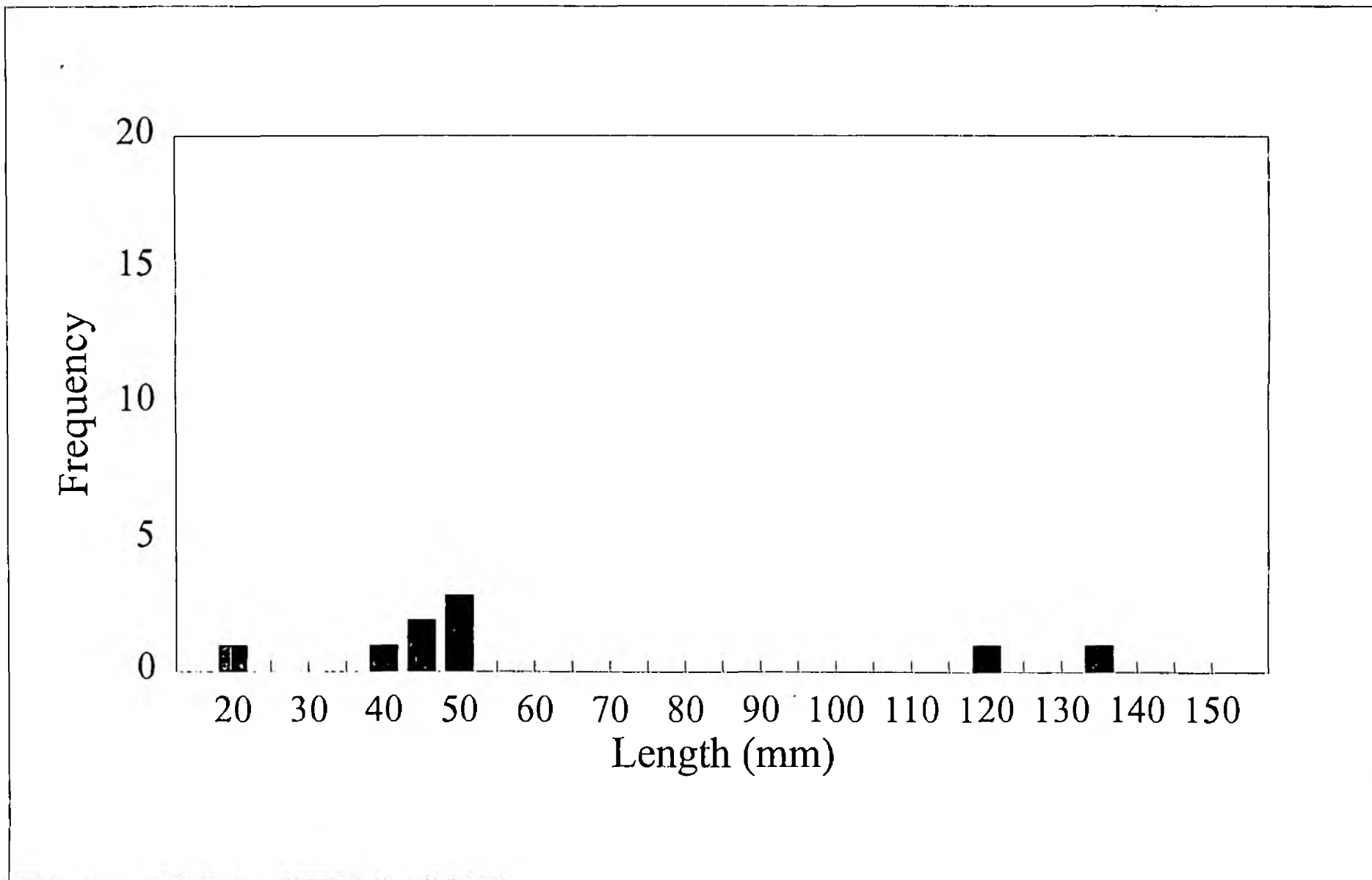


Figure 8 Length Frequency Distribution for Brown Trout in the River Dunsop

July 1997

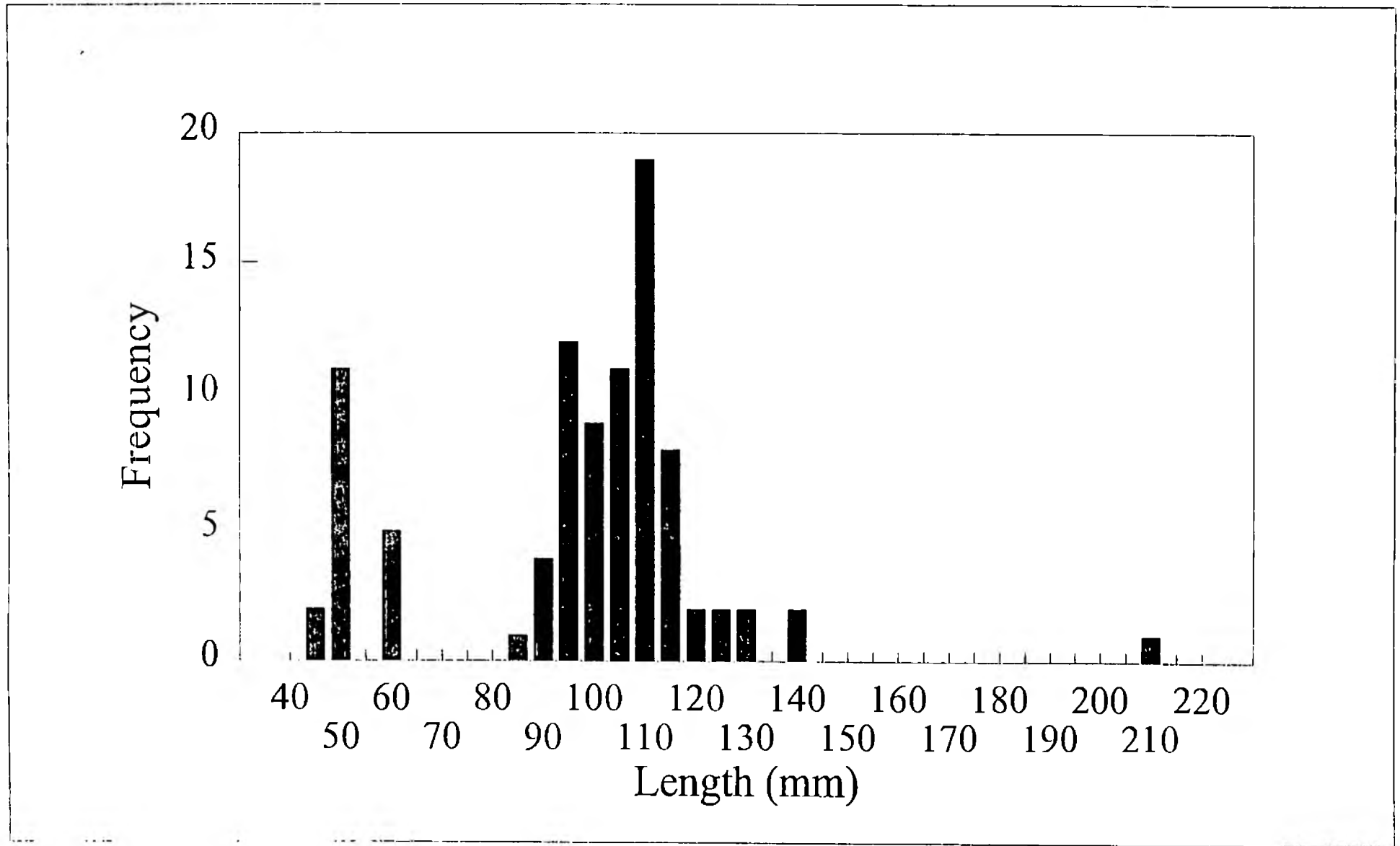


Figure 9 Length Frequency Distribution for Brown Trout at Site T4

July 1997

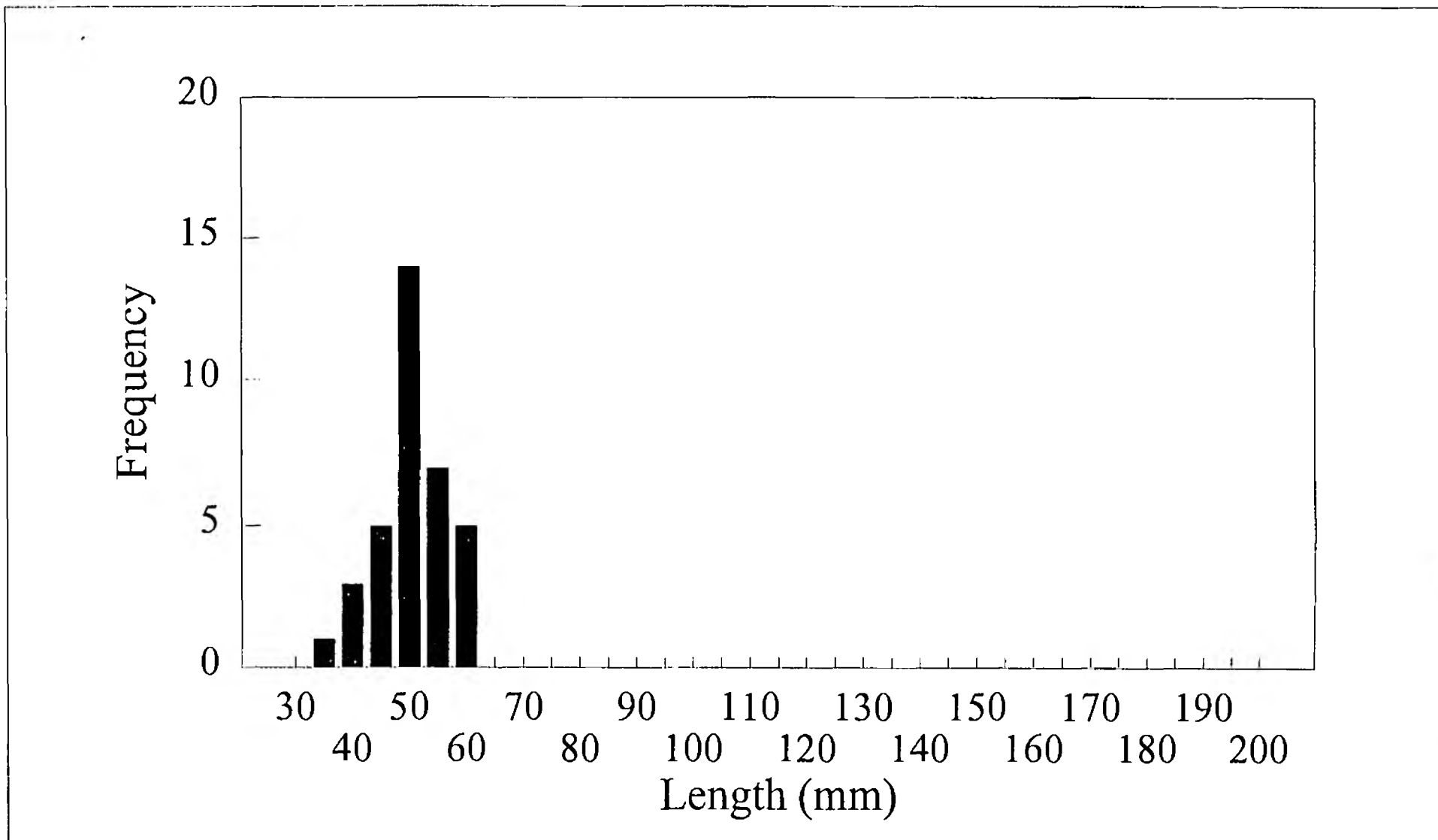
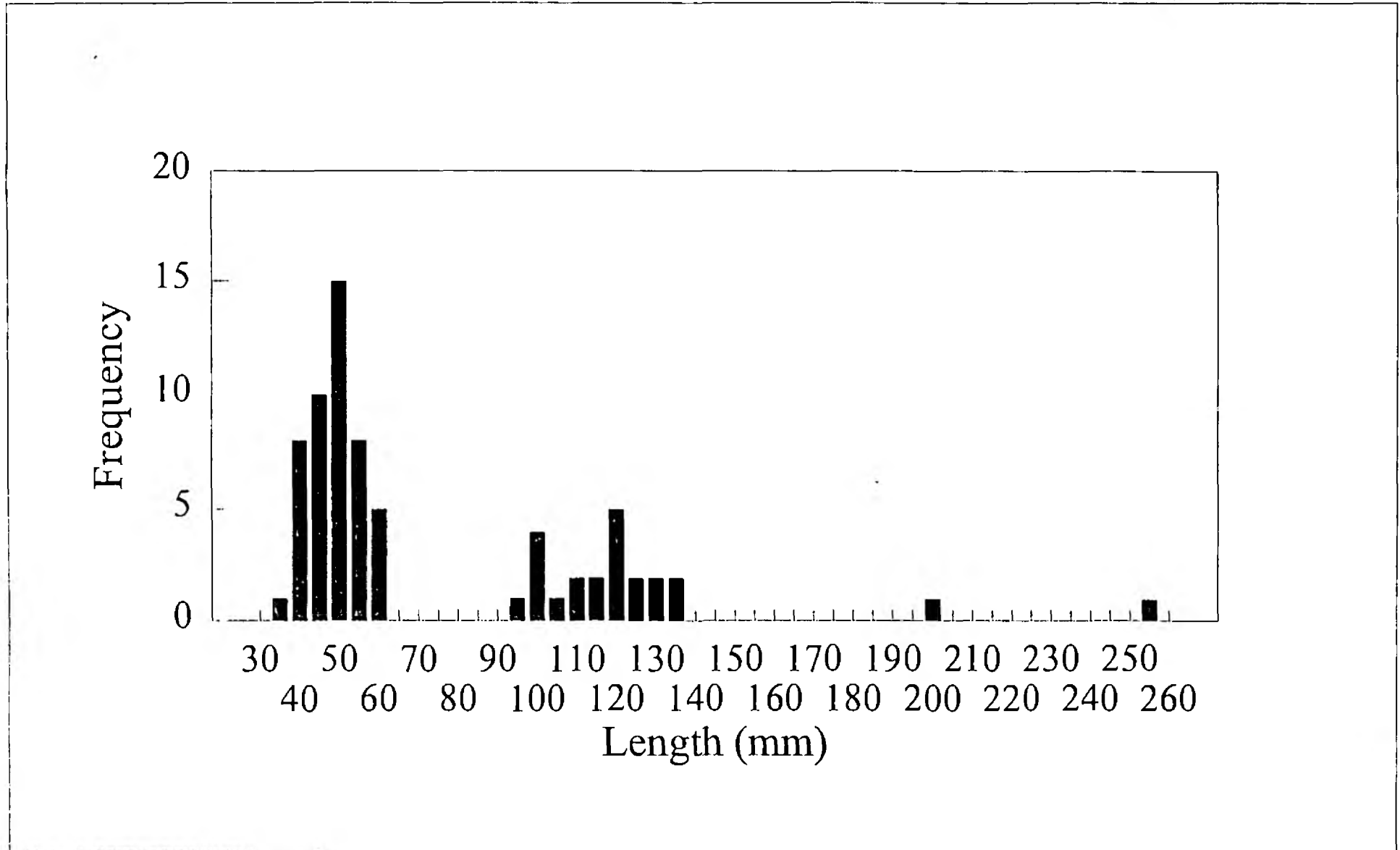


Figure 10 Length Frequency Distribution for Brown Trout in the Tarnbrook Wyre

June 1997



APPENDIX A

RIVER DOUGLAS (HORWICH)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
DO 1	17-Mar-97	1	1	Trout	105	*
DO 1	17-Mar-97	1	2	Trout	110	*
DO 1	17-Mar-97	1	3	Trout	75	*
DO 1	17-Mar-97	1	4	Trout	75	*
DO 1	17-Mar-97	1	5	Trout	60	*
DO 1	17-Mar-97	1	6	Trout	55	*
DO 1	17-Mar-97	1	7	Trout	115	*
DO 1	17-Mar-97	1	8	Trout	125	*
DO 1	17-Mar-97	1	9	Trout	120	*
DO 1	17-Mar-97	1	10	Trout	70	*
DO 1	17-Mar-97	1	11	Trout	70	*
DO 1	17-Mar-97	1	12	Trout	140	*
DO 1	17-Mar-97	1	13	Ammocoete	60	*
DO 1	17-Mar-97	1	13	Ammocoete	20	*
DO 1	17-Mar-97	1	15	Ammocoete	35	*
DO 1	17-Mar-97	1	16	Ammocoete	35	*
DO 1	17-Mar-97	1	17	Ammocoete	40	*
DO 1	17-Mar-97	1	18	Ammocoete	15	*
DO 1	17-Mar-97	1	19	Brook Lamprey	110	1

RIVER DOUGLAS (D/S RIVINGTON)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
DO 2	17-Mar-97	1	1	Brook Lamprey	130	2
DO 2	17-Mar-97	1	2	Ammocoete	100	*
DO 2	17-Mar-97	1	3	Ammocoete	110	*
DO 2	17-Mar-97	1	4	Ammocoete	110	*
DO 2	17-Mar-97	1	5	Ammocoete	110	*
DO 2	17-Mar-97	1	6	Ammocoete	90	*
DO 2	17-Mar-97	1	7	Ammocoete	65	*
				12 Bullhead		
				1 Stickleback		

RIVER DOUGLAS (U/S HORWICH STW)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
DO 3	17-Mar-97	1	1	Trout	45	*
DO 3	17-Mar-97	1	2	Trout	40	*
DO 3	17-Mar-97	1	3	Trout	45	*
				2 Bullhead		
				1 Stickleback		

RIVER DOUGLAS (PEARL BROOK U/S STW)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
DO 4	17-Mar-97	1	1	Trout	225	*
DO 4	17-Mar-97	1	2	Trout	85	*
DO 4	17-Mar-97	1	3	Trout	90	*
DO 4	17-Mar-97	1	4	Trout	80	*
DO 4	17-Mar-97	1	5	Trout	100	*
DO 4	17-Mar-97	1	6	Trout	110	*
DO 4	17-Mar-97	1	7	Trout	70	*
DO 4	17-Mar-97	1	8	Trout	75	*
DO 4	17-Mar-97	1	9	Trout	80	*
DO 4	17-Mar-97	1	10	Trout	85	*
DO 4	17-Mar-97	1	11	Trout	85	*
DO 4	17-Mar-97	1	12	Trout	140	*
DO 4	17-Mar-97	1	13	Trout	95	*
DO 4	17-Mar-97	1	14	Trout	80	*
DO 4	17-Mar-97	1	15	Trout	95	*
DO 4	17-Mar-97	1	16	Trout	95	*
DO 4	17-Mar-97	1	17	Trout	65	*
DO 4	17-Mar-97	1	18	Trout	85	*
DO 4	17-Mar-97	1	19	Trout	110	*
DO 4	17-Mar-97	1	20	Trout	80	*
DO 4	17-Mar-97	1	21	Trout	90	*
DO 4	17-Mar-97	1	22	Trout	65	*
DO 4	17-Mar-97	1	23	Trout	70	*
DO 4	17-Mar-97	1	24	Trout	120	*
DO 4	17-Mar-97	1	25	Trout	95	*
DO 4	17-Mar-97	1	26	Trout	95	*
DO 4	17-Mar-97	1	27	Trout	115	*
DO 4	17-Mar-97	1	28	Trout	75	*
DO 4	17-Mar-97	1	29	Trout	90	*
DO 4	17-Mar-97	1	30	Trout	80	*
DO 4	17-Mar-97	1	31	Trout	75	*
DO 4	17-Mar-97	1	32	Trout	80	*
DO 4	17-Mar-97	1	33	Trout	80	*
DO 4	17-Mar-97	1	34	Trout	90	*
DO 4	17-Mar-97	1	35	Trout	80	*
DO 4	17-Mar-97	1	36	Trout	85	*
				2 Bullhead		
				3 Sticklebacks		

RIVER BROCK (BETWEEN JACK ANDERTON BRIDGE & SNAPE LANE)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
B1	20-Mar-97	1	1	Trout	95	*
B1	20-Mar-97	1	2	Trout	85	*
B1	20-Mar-97	1	3	Trout	90	*
B1	20-Mar-97	1	4	Trout	75	*
B1	20-Mar-97	1	5	Trout	100	*
B1	20-Mar-97	1	6	Trout	80	*
B1	20-Mar-97	1	7	Trout	95	*
B1	20-Mar-97	1	8	Trout	85	*
B1	20-Mar-97	1	9	Trout	160	*
B1	20-Mar-97	1	10	Trout	85	*
B1	20-Mar-97	1	11	Eel	540	248
B1	20-Mar-97	1	12	Eel	430	103
				3 Stone Loach		

RIVER BROCK (BROCK MILL LANE)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
B2	26-Mar-97	1	1	Trout	110	*
B2	26-Mar-97	1	2	Trout	125	*
B2	26-Mar-97	1	3	Trout	105	*
B2	26-Mar-97	1	4	Trout	90	*
B2	26-Mar-97	1	5	Trout	120	*
B2	26-Mar-97	1	6	Trout	110	*
B2	26-Mar-97	1	7	Trout	115	*
B2	26-Mar-97	1	8	Trout	110	*
B2	26-Mar-97	1	9	Eel	500	183
B2	26-Mar-97	1	10	Eel	530	289
B2	26-Mar-97	1	11	Eel	445	111
				10 Bullhead		
				7 Stone Loach		

RIVER BROCK (MYERSCOUGH COLLEGE)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
B4	20-Mar-97	1	1	Chub	285	321
B4	20-Mar-97	1	2	Trout	335	*
B4	20-Mar-97	1	3	Trout	260	*
B4	20-Mar-97	1	4	Trout	125	*
B4	20-Mar-97	1	5	Trout	125	*
B4	20-Mar-97	1	6	Trout	110	*
B4	20-Mar-97	1	7	Trout	95	*
B4	20-Mar-97	1	8	Trout	65	*
B4	20-Mar-97	1	20	Trout	90	*
B4	20-Mar-97	1	21	Trout	90	*
B4	20-Mar-97	1	22	Trout	120	*
B4	20-Mar-97	1	11	Eel	325	59
B4	20-Mar-97	1	15	Eel	285	37
B4	20-Mar-97	1	16	Eel	250	24
B4	20-Mar-97	1	17	Eel	210	15
B4	20-Mar-97	1	18	Eel	260	29
B4	20-Mar-97	1	19	Eel	280	31
B4	20-Mar-97	1	23	Eel	350	67
B4	20-Mar-97	1	24	Eel	330	68
B4	20-Mar-97	1	25	Eel	320	49
B4	20-Mar-97	1	26	Eel	260	27
				1 Bullhead		
				7 Minnow		

RIVER BROCK (NEW DRAUGHT BROOK AT NEW DRAUGHT BRIDGE)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
B5	20-Mar-97	1	1	Dace	195	86
B5	20-Mar-97	1	2	Dace	165	60
B5	20-Mar-97	1	3	Dace	130	20
B5	20-Mar-97	1	4	Dace	75	6
B5	20-Mar-97	1	5	Dace	50	3
B5	20-Mar-97	1	7	Dace	90	5
B5	20-Mar-97	1	8	Dace	70	3
B5	20-Mar-97	1	9	Dace	50	1
B5	20-Mar-97	1	6	Trout	120	*
B5	20-Mar-97	1	10	Eel	190	7
				5 Flounder		
				1 Minnow		
				2 Stickleback		
				1 Stone Loach		

RIVER CALDER (RIVER BRUN #1)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
C1	21-Mar-97	1	1	Trout	120	*
C1	21-Mar-97	1	2	Trout	115	*
C1	21-Mar-97	1	3	Trout	110	*
C1	21-Mar-97	1	4	Trout	115	*
C1	21-Mar-97	1	5	Trout	90	*
C1	21-Mar-97	1	6	Trout	120	*
C1	21-Mar-97	1	7	Trout	90	*
C1	21-Mar-97	1	8	Trout	80	*
C1	21-Mar-97	1	9	Trout	100	*
C1	21-Mar-97	1	10	Trout	105	*
C1	21-Mar-97	1	11	Trout	95	*
C1	21-Mar-97	1	12	Trout	75	*
C1	21-Mar-97	1	13	Trout	95	*
C1	21-Mar-97	1	14	Trout	65	*
C1	21-Mar-97	1	15	Trout	105	*
C1	21-Mar-97	1	16	Trout	185	*
C1	21-Mar-97	1	17	Trout	175	*
C1	21-Mar-97	1	18	Trout	150	*
C1	21-Mar-97	1	19	Trout	90	*
C1	21-Mar-97	1	20	Trout	110	*
C1	21-Mar-97	1	21	Trout	100	*
C1	21-Mar-97	1	22	Trout	85	*
C1	21-Mar-97	1	23	Trout	90	*
C1	21-Mar-97	1	24	Trout	90	*
C1	21-Mar-97	1	25	Trout	125	*
C1	21-Mar-97	1	26	Trout	110	*
C1	21-Mar-97	1	27	Trout	95	*
C1	21-Mar-97	1	28	Trout	75	*
C1	21-Mar-97	1	29	Trout	115	*

RIVER CALDER (RIVER BRUN #2)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
C2	21-Mar-97	1		81 Bullhead		
				4 Stickleback		

RIVER CALDER (SWINDEN WATER #1)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
C3	12-Mar-97	1	1	Trout	95	*
C3	12-Mar-97	1	2	Trout	175	*
C3	12-Mar-97	1	3	Trout	90	*
C3	12-Mar-97	1	4	Trout	95	*
C3	12-Mar-97	1	5	Trout	80	*
C3	12-Mar-97	1	6	Trout	90	*
C3	12-Mar-97	1	7	Trout	75	*
C3	12-Mar-97	1	8	Trout	90	*
C3	12-Mar-97	1	9	Trout	65	*
				24 Bullhead		
				4 Stickleback		

RIVER CALDER (SWINDEN WATER #2)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
C4	12-Mar-97	1	1	Trout	85	*
				34 Bullhead		
				1 Stickleback		
				9 Stone Loach		

RIVER CALDER (CATLOW BROOK)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
C5	21-Mar-97	1	1	Trout	95	*
C5	21-Mar-97	1	2	Trout	90	*
C5	21-Mar-97	1	3	Trout	90	*
C5	21-Mar-97	1	4	Trout	90	*
C5	21-Mar-97	1	5	Trout	95	*
C5	21-Mar-97	1	6	Trout	50	*

RIVER CALDER (RIVER LANESHAW #1)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
C6	21-Mar-97	1	1	Trout	180	*
C6	21-Mar-97	2	1	Trout	115	*
C6	21-Mar-97	3	1	Trout	250	*

RIVER CALDER (RIVER LANESHAW #2)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
C7	21-Mar-97	1		5 Bullhead		

RIVER CALDER (COLNE WATER)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
C8	26-Mar-97	1	1	Trout	210	*
				4 Bullhead		
				3 Minnow		
				5 Stone Loach		

RIVER HODDER (ABOVE HAMMERTON HALL)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
H05	11-Jul-97	1	1	Salmon	110	*
H05	11-Jul-97	1	2	Trout	55	*
H05	11-Jul-97	1	3	Trout	50	*
H05	11-Jul-97	1	4	Eel	570	391
H05	11-Jul-97	1	5	Eel	555	336
				8 Bullhead		
				3 Minnow		

RIVER HODDER (BELOW HOLMEHEAD BRIDGE)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
HO6	11-Jul-97	1	1	Eel	380	112
				1 stone loach		
				1 minnow		
				1 bullhead		

RIVER HODDER (SLAIDBURN GREEN)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
HO 7	09-Jun-97	1	1	Salmon	80	*
HO 7	09-Jun-97	1	2	Trout	50	*
HO 7	09-Jun-97	1	3	Trout	20	*
HO 7	09-Jun-97	1	4	Trout	45	*
HO 7	09-Jun-97	1	5	Trout	50	*
HO 7	09-Jun-97	1	6	Salmon	40	*
HO 7	09-Jun-97	1	7	Salmon	100	*
HO 7	09-Jun-97	1	8	Salmon	95	*
HO 7	09-Jun-97	1	9	Salmon	95	*
HO 7	09-Jun-97	1	10	Salmon	40	*
HO 7	09-Jun-97	1	11	Trout	40	*
HO 7	09-Jun-97	1	12	Salmon	35	*
HO 7	09-Jun-97	1	13	Salmon	110	*
HO 7	09-Jun-97	1	14	Salmon	105	*
HO 7	09-Jun-97	1	15	Salmon	105	*
HO 7	09-Jun-97	1	16	Salmon	110	*
HO 7	09-Jun-97	1	17	Salmon	90	*
HO 7	09-Jun-97	1	18	Salmon	40	*
HO 7	09-Jun-97	1	19	Salmon	40	*
HO 7	09-Jun-97	1	20	Salmon	95	*
HO 7	09-Jun-97	1	21	Trout	45	*
HO 7	09-Jun-97	1	22	Salmon	125	*
HO 7	09-Jun-97	1	23	Trout	120	*
HO 7	09-Jun-97	1	24	Salmon	95	*
HO 7	09-Jun-97	1	25	Salmon	70	*
HO 7	09-Jun-97	1	26	Salmon	100	*
HO 7	09-Jun-97	1	27	Salmon	90	*
HO 7	09-Jun-97	1	28	Salmon	100	*
HO 7	09-Jun-97	1	29	Salmon	35	*
HO 7	09-Jun-97	1	30	Salmon	40	*
HO 7	09-Jun-97	1	31	Salmon	40	*
HO 7	09-Jun-97	1	32	Salmon	40	*
HO 7	09-Jun-97	1	33	Trout	135	*
HO 7	09-Jun-97	1	34	Salmon	100	*
HO 7	09-Jun-97	1	35	Salmon	110	*
HO 7	09-Jun-97	1	36	Salmon	110	*
HO 7	09-Jun-97	1	37	Salmon	95	*
HO 7	09-Jun-97	1	38	Salmon	55	*
HO 7	09-Jun-97	1	39	Salmon	95	*
HO 7	09-Jun-97	1	40	Salmon	40	*

RIVER HODDER (SLAIDBJURN GREEN)						
HO 7	09-Jun-97	1	41	Salmon	90	*
HO 7	09-Jun-97	1	42	Trout	50	*
HO 7	09-Jun-97	1	43	Salmon	45	*
HO 7	09-Jun-97	1	44	Salmon	100	*
HO 7	09-Jun-97	1	45	Salmon	35	*
HO 7	09-Jun-97	1	46	Eel	595	383
HO 7	09-Jun-97	1	47	Eel	510	357

RIVER HODDER (BURHOLME BRIDGE)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
HO 15	11-Jul-97	1	1	Trout	410	*
HO 15	11-Jul-97	1	2	Trout	220	*
HO 15	11-Jul-97	1	3	Trout	250	*
HO 15	11-Jul-97	1	4	Salmon	50	*
HO 15	11-Jul-97	1	5	Salmon	55	*
HO 15	11-Jul-97	1	6	Salmon	60	*
HO 15	11-Jul-97	1	7	Salmon	55	*
HO 15	11-Jul-97	1	8	Salmon	60	*
HO 15	11-Jul-97	1	9	Trout	65	*
HO 15	11-Jul-97	1	10	Eel	530	141
HO 15	11-Jul-97	1	11	Eel	490	203
HO 15	11-Jul-97	1	12	Eel	355	369
HO 15	11-Jul-97	1	13	Eel	420	120
HO 15	11-Jul-97	1	14	Eel	375	75
HO 15	11-Jul-97	1	15	Eel	590	213
HO 15	11-Jul-97	1	16	Eel	185	16
HO 15	11-Jul-97	1	17	Eel	235	19
HO 15	11-Jul-97	1	18	Eel	535	259
HO 15	11-Jul-97	1	19	Eel	540	318
HO 15	11-Jul-97	1	20	Eel	585	439
				5 Bullhead		
				14 Stone loach		

WESTFIELD BROOK (BLAKE HALL)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
W1	12-Mar-97	1	1	Eel	185	12
				4 Stone Loach		

WESTFIELD BROOK (BARTON HALL)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
W2	12-Mar-97	1	1	Eel	370	90
W2	12-Mar-97	1	2	Eel	330	75
W2	12-Mar-97	1	3	Eel	200	14
				12 Stone Loach		
				3 Sticklebacks		

WESTFIELD BROOK (WESTFIELD BRIDGE)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
W3	12-Mar-97	1	1	Eel	570	369
W3	12-Mar-97	1	2	Eel	345	101
W3	12-Mar-97	1	3	Eel	180	8
W3	12-Mar-97	1	4	Eel	330	79
W3	12-Mar-97	1	5	Eel	260	33
				19 Stone Loach		

RIVER DUNSOP (FORD ABOVE LAST FARM)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
BR 1	09-Jul-97	1		No Fish Caught		

RIVER DUNSOP (BETWEEN FARMS)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
BR 2	09-Jul-97	1	1	Trout	95	*
BR 2	09-Jul-97	1	2	Trout	60	*
BR 2	09-Jul-97	1	3	Trout	210	*
BR 2	09-Jul-97	1	4	Trout	60	*
BR 2	09-Jul-97	1	5	Trout	100	*
BR 2	09-Jul-97	1	6	Trout	110	*
BR 2	09-Jul-97	1	7	Trout	130	*
BR 2	09-Jul-97	1	8	Trout	115	*
BR 2	09-Jul-97	1	9	Trout	110	*
BR 2	09-Jul-97	1	10	Trout	50	*
BR 2	09-Jul-97	1	11	Trout	110	*
BR 2	09-Jul-97	1	12	Trout	105	*
BR 2	09-Jul-97	1	13	Trout	110	*
BR 2	09-Jul-97	1	14	Trout	140	*
BR 2	09-Jul-97	1	15	Trout	105	*
BR 2	09-Jul-97	1	16	Trout	140	*
BR 2	09-Jul-97	1	17	Trout	50	*

RIVER DUNSOP (ABOVE WHITENDALE FARM)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
WH 1	09-Jul-97	1	1	Trout	115	*
WH 1	09-Jul-97	1	2	Trout	110	*
WH 1	09-Jul-97	1	3	Trout	115	*
WH 1	09-Jul-97	1	4	Trout	45	*
WH 1	09-Jul-97	1	5	Trout	95	*
WH 1	09-Jul-97	1	6	Trout	120	*
WH 1	09-Jul-97	1	7	Trout	85	*
WH 1	09-Jul-97	1	8	Trout	90	*
WH 1	09-Jul-97	1	9	Trout	45	*
WH 1	09-Jul-97	1	10	Trout	115	*
WH 1	09-Jul-97	1	11	Trout	110	*
WH 1	09-Jul-97	1	12	Trout	100	*
WH 1	09-Jul-97	1	13	Trout	110	*
WH 1	09-Jul-97	1	14	Trout	110	*
WH 1	09-Jul-97	1	15	Trout	125	*
WH 1	09-Jul-97	1	16	Trout	95	*
WH 1	09-Jul-97	1	17	Trout	95	*
WH 1	09-Jul-97	1	18	Trout	115	*
WH 1	09-Jul-97	1	19	Trout	105	*
WH 1	09-Jul-97	1	20	Trout	110	*
WH 1	09-Jul-97	1	21	Trout	105	*
WH 1	09-Jul-97	1	22	Trout	105	*
WH 1	09-Jul-97	1	23	Trout	95	*
WH 1	09-Jul-97	1	24	Trout	100	*
WH 1	09-Jul-97	1	25	Trout	100	*
WH 1	09-Jul-97	1	26	Trout	115	*
WH 1	09-Jul-97	1	27	Trout	110	*
WH 1	09-Jul-97	1	28	Trout	95	*
WH 1	09-Jul-97	1	29	Trout	95	*
WH 1	09-Jul-97	1	30	Trout	110	*
WH 1	09-Jul-97	1	31	Trout	105	*

RIVER DUNSOP (BELOW WHITENDALE FARM)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
WH 2	09-Jul-97	1	1	Trout	130	*
WH 2	09-Jul-97	2	1	Trout	115	*
WH 2	09-Jul-97	3	1	Trout	105	*
WH 2	09-Jul-97	4	1	Trout	95	*
WH 2	09-Jul-97	5	1	Trout	120	*
WH 2	09-Jul-97	6	1	Trout	90	*
WH 2	09-Jul-97	7	1	Trout	105	*
WH 2	09-Jul-97	8	1	Trout	110	*
WH 2	09-Jul-97	9	1	Trout	100	*
WH 2	09-Jul-97	10	1	Trout	90	*
WH 2	09-Jul-97	11	1	Trout	50	*
WH 2	09-Jul-97	12	1	Trout	50	*
WH 2	09-Jul-97	13	1	Trout	95	*
WH 2	09-Jul-97	14	1	Trout	110	*
WH 2	09-Jul-97	15	1	Trout	105	*
WH 2	09-Jul-97	16	1	Trout	50	*
WH 2	09-Jul-97	17	1	Trout	50	*
WH 2	09-Jul-97	18	1	Trout	110	*
WH 2	09-Jul-97	19	1	Trout	115	*
WH 2	09-Jul-97	20	1	Trout	125	*
WH 2	09-Jul-97	21	1	Trout	95	*
WH 2	09-Jul-97	22	1	Trout	105	*
WH 2	09-Jul-97	23	1	Trout	110	*
WH 2	09-Jul-97	24	1	Trout	110	*
WH 2	09-Jul-97	25	1	Trout	60	*

RIVER DUNSOP (BELOW WHITENDALE FARM)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
WH 3	09-Jul-97	1	1	Trout	95	*
WH 3	09-Jul-97	1	2	Trout	110	*
WH 3	09-Jul-97	1	3	Trout	105	*
WH 3	09-Jul-97	1	4	Trout	90	*
WH 3	09-Jul-97	1	5	Trout	100	*
WH 3	09-Jul-97	1	6	Trout	60	*
WH 3	09-Jul-97	1	7	Trout	100	*
WH 3	09-Jul-97	1	8	Trout	110	*
WH 3	09-Jul-97	1	9	Trout	100	*
WH 3	09-Jul-97	1	10	Trout	50	*
WH 3	09-Jul-97	1	11	Trout	50	*
WH 3	09-Jul-97	1	12	Trout	50	*
WH 3	09-Jul-97	1	13	Trout	95	*
WH 3	09-Jul-97	1	14	Trout	60	*
WH 3	09-Jul-97	1	15	Trout	110	*
WH 3	09-Jul-97	1	16	Trout	50	*
WH 3	09-Jul-97	1	17	Trout	50	*
WH 3	09-Jul-97	1	18	Trout	100	*

TARNBROOK WYRE (TB 1)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
T1	10-Jun-97	1	1	Trout	90	*
T1	10-Jun-97	1	2	Trout	100	*
T1	10-Jun-97	1	3	Trout	190	*
T1	10-Jun-97	1	4	Trout	215	*
T1	10-Jun-97	1	5	Trout	240	*

TARNBROOK WYRE (TARNSYKE CLOUGH, AT THE FORD))						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
T2	10-Jun-97	1		No Fish Caught		

TARNBROOK WYRE (RIVER GRIZEDALE, RAKEHOUSE BARN)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
T3	10-Jun-97	1		No Fish Caught		

TARNBROOK WYRE (JOSHUA BECK, US CONFLUENCE PARSONS BECK)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
T4	09-Jul-97	1	1	Trout	50	*
T4	09-Jul-97	1	2	Trout	60	*
T4	09-Jul-97	1	3	Trout	50	*
T4	09-Jul-97	1	4	Trout	60	*
T4	09-Jul-97	1	5	Trout	55	*
T4	09-Jul-97	1	6	Trout	55	*
T4	09-Jul-97	1	7	Trout	60	*
T4	09-Jul-97	1	8	Trout	55	*
T4	09-Jul-97	1	9	Trout	60	*
T4	09-Jul-97	1	10	Trout	60	*
T4	09-Jul-97	1	11	Trout	50	*
T4	09-Jul-97	1	12	Trout	50	*
T4	09-Jul-97	1	13	Trout	55	*
T4	09-Jul-97	1	14	Trout	40	*
T4	09-Jul-97	1	15	Trout	55	*
T4	09-Jul-97	1	16	Trout	50	*
T4	09-Jul-97	1	17	Trout	45	*
T4	09-Jul-97	1	18	Trout	50	*
T4	09-Jul-97	1	19	Trout	50	*
T4	09-Jul-97	1	20	Trout	35	*
T4	09-Jul-97	1	21	Trout	40	*
T4	09-Jul-97	1	22	Trout	50	*
T4	09-Jul-97	1	23	Trout	45	*
T4	09-Jul-97	1	24	Trout	55	*
T4	09-Jul-97	1	25	Trout	50	*
T4	09-Jul-97	1	26	Trout	50	*
T4	09-Jul-97	1	27	Trout	45	*
T4	09-Jul-97	1	28	Trout	55	*
T4	09-Jul-97	1	29	Trout	45	*
T4	09-Jul-97	1	30	Trout	40	*
T4	09-Jul-97	1	31	Trout	45	*
T4	09-Jul-97	1	32	Trout	50	*
T4	09-Jul-97	1	33	Trout	50	*
T4	09-Jul-97	1	34	Trout	50	*
T4	09-Jul-97	1	35	Trout	50	*
				2 Bullhead		

TARNBROOK WYRE (DAMAS GILL, HEVERSHAM HOUSE)						
Site	Date	Run	Fish No.	Species	Length (mm)	Weight (g)
T5	10-Jun-97	1	1	Trout	130	*
T5	10-Jun-97	1	2	Trout	40	*
T5	10-Jun-97	1	3	Trout	115	*
T5	10-Jun-97	1	4	Trout	135	*
T5	10-Jun-97	1	5	Trout	45	*
T5	10-Jun-97	1	6	Trout	45	*
T5	10-Jun-97	1	7	Trout	120	*
T5	10-Jun-97	1	8	Trout	135	*
T5	10-Jun-97	1	9	Trout	45	*
T5	10-Jun-97	1	10	Trout	120	*
T5	10-Jun-97	1	11	Trout	125	*
T5	10-Jun-97	1	12	Trout	105	*
T5	10-Jun-97	1	13	Trout	110	*
T5	10-Jun-97	1	14	Trout	120	*
T5	10-Jun-97	1	15	Trout	130	*
T5	10-Jun-97	1	16	Trout	110	*
T5	10-Jun-97	1	17	Trout	125	*
T5	10-Jun-97	1	18	Trout	100	*
T5	10-Jun-97	1	19	Trout	95	*
T5	10-Jun-97	1	20	Trout	40	*
T5	10-Jun-97	1	21	Trout	40	*
T5	10-Jun-97	1	22	Trout	45	*
T5	10-Jun-97	1	23	Trout	40	*
T5	10-Jun-97	1	24	Trout	100	*
T5	10-Jun-97	1	25	Trout	120	*
T5	10-Jun-97	1	26	Trout	55	*
T5	10-Jun-97	1	27	Trout	255	*
T5	10-Jun-97	1	28	Trout	40	*
T5	10-Jun-97	1	29	Trout	45	*
T5	10-Jun-97	1	30	Trout	50	*
T5	10-Jun-97	1	31	Trout	100	*
T5	10-Jun-97	1	32	Trout	115	*
T5	10-Jun-97	1	33	Trout	201	*
T5	10-Jun-97	1	34	Trout	100	*
T5	10-Jun-97	1	35	Trout	120	*
T5	10-Jun-97	1	36	Eel	340	61
T5	10-Jun-97	1	37	Eel	415	128
T5	10-Jun-97	1	38	Eel	460	163
T5	10-Jun-97	1	39	Eel	555	297

APPENDIX B

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m) 50

2. Width of river surveyed (m) at every five metres along site
4.5 4.2 4.5 4.6 4.8 4.9 4.6 3.9 3.7 4.5

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)
10 20 24 21 21 15 17 17 18 15
5 14 11 9 6 10 12 9 11 8
6 17 15 20 14 11 13 17 12 4

4. Maximum depth (m) 0.35

5. Associated land use (m) BL

6. Predominant substrate type GP

7. Percentage river area covered by:

pool	Glide	Riffle
0	25	33

8. Grid Reference (6 figures) SD 634 125 Site Number DO 11

9. Photograph numbers 22, 23, 24

10. Site Notes
 U/S stop net on riffle next to big tree.
 D/S on riffle with stones laid across river
 Access via gate and along path
 Road bridge across river
 D/S riffle approx. 15m U/S from bridge.
 Slightly moved due to access restrictions

D02

17/3/97

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m) 50

2. Width of river surveyed (m) at every five metres along site
3.8 2.0 2.3 2.2 2.7 2.5 2.6 5.2 5.6 4.8

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)
20 17 19 18 18 27 24 24 24 24
37 46 34 39 44 45 44 46 41 40
15 25 43 47 49 50 57 50 44 53

4. Maximum depth (m) 0.53

5. Associated land use (m) RP

6. Predominant substrate type S1

7. Percentage river area covered by:

pool Glide Riffle
0 : 90 | 10

8. Grid Reference (6 figures) SD 630 117 Site Number D02

9. Photograph numbers
25-27

10. Site Notes
U/S stop net at bridge
D/S site at telegraph pole
Site has very variable width
Reeds present U/S end of site

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

2. Width of river surveyed (m) at every five metres along site

<input type="text" value="1.7"/>	<input type="text" value="1.8"/>	<input type="text" value="1.5"/>	<input type="text" value="1.3"/>	<input type="text" value="2.0"/>	<input type="text" value="1.8"/>	<input type="text" value="1.9"/>	<input type="text" value="2.1"/>	<input type="text" value="1.6"/>	<input type="text" value="1.8"/>
<input type="text" value="1.8"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)

<input type="text" value="19"/>	<input type="text" value="24"/>	<input type="text" value="26"/>	<input type="text" value="28"/>	<input type="text" value="30"/>	<input type="text" value="30"/>	<input type="text" value="34"/>	<input type="text" value="32"/>	<input type="text" value="31"/>	<input type="text" value="30"/>
<input type="text" value="20"/>	<input type="text" value="21"/>	<input type="text" value="25"/>	<input type="text" value="20"/>	<input type="text" value="18"/>	<input type="text" value="19"/>	<input type="text" value="18"/>	<input type="text" value="16"/>	<input type="text" value="15"/>	<input type="text" value="13"/>
<input type="text" value="15"/>	<input type="text" value="20"/>	<input type="text" value="25"/>	<input type="text" value="28"/>	<input type="text" value="39"/>	<input type="text" value="45"/>	<input type="text" value="42"/>	<input type="text" value="37"/>	<input type="text" value="24"/>	<input type="text" value="20"/>

4. Maximum depth (m)

5. Associated land use (m)

6. Predominant substrate type

7. Percentage river area covered by:

pool	Glide	Riffle
<input type="text" value="0"/>	<input type="text" value="10"/>	<input type="text" value="0"/>

8. Grid Reference (6 figures) Site Number

9. Photograph numbers

10. Site Notes

D/S end of site approx 20m u/s of corner + outfall
 Very narrow
 Flow type = predominantly rippled (run)
 Site surrounded by tall grass
 Quite deep
 Some aquatic weed growing on bottom
 Moved site slightly downstream due to access restriction

D04

17/3/97

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

2. Width of river surveyed (m)
at every five metres along site

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)

<input type="text" value="10"/>	<input type="text" value="14"/>	<input type="text" value="14"/>	<input type="text" value="10"/>	<input type="text" value="15"/>	<input type="text" value="19"/>	<input type="text" value="13"/>	<input type="text" value="13"/>	<input type="text" value="15"/>	<input type="text" value="13"/>
<input type="text" value="3"/>	<input type="text" value="16"/>	<input type="text" value="21"/>	<input type="text" value="26"/>	<input type="text" value="25"/>	<input type="text" value="15"/>	<input type="text" value="17"/>	<input type="text" value="20"/>	<input type="text" value="17"/>	<input type="text" value="10"/>
<input type="text" value="10"/>	<input type="text" value="15"/>	<input type="text" value="20"/>	<input type="text" value="25"/>	<input type="text" value="28"/>	<input type="text" value="31"/>	<input type="text" value="34"/>	<input type="text" value="20"/>	<input type="text" value="35"/>	<input type="text" value="25"/>

4. Maximum depth (m)

5. Associated land use (m)

6. Predominant substrate type

7. Percentage river area covered by:

pool	Glide	Riffle
<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="10"/>

8. Grid Reference (6 figures)

Site Number

9. Photograph numbers

10. Site Notes
Very narrow
Flow type predominantly rippled (run)
Site surrounded by litter + debris, paper pollution

B1

20/3/97

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

50

2. Width of river surveyed (m)
at every five metres along site

4.5	6.0	5.5	5.3	5.5	6.5	6.0	5.9	6.6	7.8

3. Depth of river at beginning, middle and end at 10 equally spaced points across river

5	10	18	20	28	25	30	32	12	3
15	12	10	10	25	25	22	16	17	18
12	15	14	16	14	13	14	16	10	28

4. Maximum depth (m)

0.37

5. Associated land use (m)

B1

6. Predominant substrate type

CO

7. Percentage river area covered by:

pool Glide Riffle

0	0	90
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8. Grid Reference (6 figures)

SD566 451

Site Number

B1

9. Photograph numbers

33, 34

10. Site Notes

D/S end - gate under bridge

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

50

2. Width of river surveyed (m)
at every five metres along site

7.6	7.1	7.1	5.9	5.3	7.1	6.2	5.8	7.0	11.1
7.0									

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)

10	24	20	29	40	45	30	26	37	32
5	15	27	43	37	52	50	37	12	20
80	10	30	25	28	20	30	25	10	15

4. Maximum depth (m)

0.65

5. Associated land use (m)

BL

6. Predominant substrate type

CO

7. Percentage river area covered by:

pool	Glide	Riffle
0	0	0

8. Grid Reference (6 figures)

SD549 432

Site Number

BZ

9. Photograph numbers

24, 25

10. Site Notes

Very steep banks
 Very fast flowing cascade/rapid
 D/S net at access point.
 The river was longitudinally separated

B4

20/3/97

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

2. Width of river surveyed (m) at every five metres along site

10.7	9.3	8.1	7.1	7.3	8.9	9.8	9.6	9.7	7.0
7.0	7.9	9.0	8.7						

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)

33	45	55	55	50	45	37	35	30	30
55	55	40	30	25	20	20	15	10	5
8	20	25	22	25	25	22	20	20	20

4. Maximum depth (m)

5. Associated land use (m)

6. Predominant substrate type

7. Percentage river area covered by:

pool	Glide	Riffle
0	20	0

8. Grid Reference (6 figures) Site Number

9. Photograph numbers

10. Site Notes
Broadleaved woodland immediately around site
Agriculture beyond that
Fish mainly in deep sections
Most of site - rippled flow (run)
Deep areas at edges under tree roots.

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

50

2. Width of river surveyed (m)
at every five metres along site

6.6	5.1	4.9	4.6	4.1	4.3	4.2	4.2	4.6	4.7

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)

24	22	22	18	26	30	35	35	42	45
25	30	33	45	48	49	52	55	58	38
22	41	49	51	61	59	54	52	52	46

4. Maximum depth (m)

0.65

5. Associated land use (m)

RP

6. Predominant substrate type

SI

7. Percentage river area covered by:

pool Glide Riffle

0	0	0
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8. Grid Reference (6 figures)

SD479 401

Site Number

B5

9. Photograph numbers

36, 37

10. Site Notes

Modified channel
Steep banks, straight
Recently dredged.

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

2. Width of river surveyed (m) at every five metres along site

<input type="text" value="5.3"/>	<input type="text" value="3.5"/>	<input type="text" value="2.3"/>	<input type="text" value="3.2"/>	<input type="text" value="4.3"/>	<input type="text" value="4.8"/>	<input type="text" value="6.2"/>	<input type="text" value="2.5"/>	<input type="text" value="2.3"/>	<input type="text" value="3.7"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)

<input type="text" value="18"/>	<input type="text" value="25"/>	<input type="text" value="30"/>	<input type="text" value="28"/>	<input type="text" value="29"/>	<input type="text" value="16"/>	<input type="text" value="15"/>	<input type="text" value="11"/>	<input type="text" value="10"/>	<input type="text" value="5"/>
<input type="text" value="13"/>	<input type="text" value="21"/>	<input type="text" value="25"/>	<input type="text" value="15"/>	<input type="text" value="10"/>	<input type="text" value="8"/>	<input type="text" value="16"/>	<input type="text" value="17"/>	<input type="text" value="11"/>	<input type="text" value="10"/>
<input type="text" value="32"/>	<input type="text" value="31"/>	<input type="text" value="39"/>	<input type="text" value="31"/>	<input type="text" value="37"/>	<input type="text" value="32"/>	<input type="text" value="30"/>	<input type="text" value="14"/>	<input type="text" value="12"/>	<input type="text" value="9"/>

4. Maximum depth (m)

5. Associated land use (m)

6. Predominant substrate type

7. Percentage river area covered by:

pool	Glide	Riffle
<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

8. Grid Reference (6 figures) Site Number

9. Photograph numbers

10. Site Notes

Fast flowing
 big vegetated point bar on right bank
 runs, small rapids + cascades
 p/s marker - 2m up from bridge
 landowner - Paul Gibbons 01282 411512

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

50

2. Width of river surveyed (m)
at every five metres along site

7.6	7.7	7.6	5.9	5.5	7.3	5.1	5.3	5.4	6.0

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)

20	24	11	10	10	10	6	7	8	15
20	40	50	60	65	40	35	35	30	30
8	20	22	29	30	28	23	21	20	19

4. Maximum depth (m)

0.65

5. Associated land use (m)

RP

6. Predominant substrate type

CO

7. Percentage river area covered by:

pool	Glide	Riffle
0	20	20

8. Grid Reference (6 figures)

SD 866 323

Site Number

C2

9. Photograph numbers

12, 13

10. Site Notes

Riffles, runs + glides
 Wide river
 Trees along banks but rough pasture
 around top net on riffle 20m u/s of
 path.

C3

12/3/97

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

2. Width of river surveyed (m) at every five metres along site

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)

4. Maximum depth (m)

5. Associated land use (m)

6. Predominant substrate type

7. Percentage river area covered by:

pool	Glide	Riffle
<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="40"/>

8. Grid Reference (6 figures) Site Number

9. Photograph numbers

10. Site Notes
Access via NWW track
D/S site where pipe crosses river

C4

12/3/97

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m) 64

2. Width of river surveyed (m) at every five metres along site
2.3 1.5 2.7 2.0 1.4 1.8 2.0 3.6 2.1 3.1
2.4 1.5 2.6

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)
28 32 26 21 15 24 20 10 3 1
10 14 19 21 23 20 17 15 13 11
8 7 14 21 22 15 12 18 15 17

4. Maximum depth (m) 0.49

5. Associated land use (m) BL

6. Predominant substrate type GP

7. Percentage river area covered by:

pool Glide Riffle
0 : 0 | 40

8. Grid Reference (6 figures) SD 862 335 Site Number C4

9. Photograph numbers
10-15

10. Site Notes
land owner at Rowley Hall.
Down track to confluence and right,
past foot bridge.

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m) 50

2. Width of river surveyed (m) at every five metres along site
0.70 0.3 0.7 0.8 1.6 0.8 1.6 0.9 1.4 0.6

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)
10 18 25 30 24 22 22 15 15 9
15 18 20 19 19 18 18 19 14 12
30 20 20 20 15 26 19 6 25 2

4. Maximum depth (m) 0.4

5. Associated land use (m) RP

6. Predominant substrate type CO

7. Percentage river area covered by:
pool Glide Riffle
0 0 0

8. Grid Reference (6 figures) Site Number
SD899364 C5

9. Photograph numbers
9-11

10. Site Notes
V. narrow upland stream
Typical V valley with spurs + meanders
cascades + runs

C6

21/3/97

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

2. Width of river surveyed (m) at every five metres along site

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)

4. Maximum depth (m)

5. Associated land use (m)

6. Predominant substrate type

7. Percentage river area covered by:

pool	Glide	Riffle
<input type="text" value="10"/>	<input type="text" value="0"/>	<input type="text" value="50"/>

8. Grid Reference (6 figures) Site Number

9. Photograph numbers

10. Site Notes
Top net approx 10 m u/s of pipe across river
Vegetated side bar
Narrow stream. Riffles + runs
Backpack.

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

2. Width of river surveyed (m) at every five metres along site

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)

4. Maximum depth (m)

5. Associated land use (m) RB=SV
LB=RP

6. Predominant substrate type

7. Percentage river area covered by:
pool Glide Riffle

8. Grid Reference (6 figures) Site Number

9. Photograph numbers

10. Site Notes
D/S marker just v/s of outfall
Approx. 50m v/s of bridge
v/s net at d/s end of vegetated mid channel bar.
Marginal deadwater.

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

2. Width of river surveyed (m) at every five metres along site

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)

4. Maximum depth (m)

5. Associated land use (m)

6. Predominant substrate type

7. Percentage river area covered by:

pool	Glide	Riffle
<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="2"/>

8. Grid Reference (6 figures) Site Number

9. Photograph numbers

10. Site Notes
Urban site next to 'Leas Corporation'
U/S end 10m down from bridge

H05

11/7/97

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

2. Width of river surveyed (m)

at every five metres along site

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)

4. Maximum depth (m)

5. Associated land use (m)

6. Predominant substrate type Cobble/boulder

7. Percentage river area covered by:

pool Glide Riffle

| |

8. Grid Reference (6 figures) Site Number

9. Photograph numbers

10. Site Notes

Some bedrock/cobble + boulders.
 Most of channel is wetted
 Overhanging canopy - dappled lighting
 Some submerged tree roots
 filamentous algae + silt

HO 6

11/7/97

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m) 50

2. Width of river surveyed (m) at every five metres along site

	7.9	9.1	9.3	10.9	10.5	10.4	11.1	10.8	12.2	13.9

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)

	15	19	30	33	25	32	12	34	28	26
	30	55	47	62	80	60	68	25	40	50
	24	28	8	22	10	25	38	47	50	40

4. Maximum depth (m) 0.75

5. Associated land use (m) 1P

6. Predominant substrate type BR

7. Percentage river area covered by:

pool	Glide	Riffle
0	100	0

8. Grid Reference (6 figures) SD 717 528 Site Number H06

9. Photograph numbers

10. Site Notes

D/S and U/S end of exposed bed rock / cascade
 Some overhanging canopy
 Exposed boulders + bed rock colonized by mosses
 Bed rock covered in silt + some filamentous algae.
 Marginal dead water
 Exposed tree roots,

H07

9/6/97

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

50

2. Width of river surveyed (m)
at every five metres along site

19.0	18.6	18.8	14.2	14.6	16.6	20.5	14.4	18.7	15.3

3. Depth of river at beginning, middle and end at 10 equally spaced points across river

(cm)

5	8	10	20	28	22	21	24	20	10
20	11	9	21	22	25	20	26	15	9
12	22	20	21	25	22	15	20	10	11

4. Maximum depth (m)

0.41

5. Associated land use (m)

19

6. Predominant substrate type

CO

7. Percentage river area covered by:

pool	Glide	Riffle
0	2	0

8. Grid Reference (6 figures)

SD 713 523

Site Number

H07

9. Photograph numbers

10. Site Notes

river was longitudinally separated.

H15

11/7/97

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

50

2. Width of river surveyed (m)
at every five metres along site

16.7	17.1	15.6	12.9	12.5	13.3	13.1	13.3	13.0	14.1

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)

15	15	26	35	42	37	25	19	5	15
41	60	57	50	35	37	40	26	12	10
44	61	65	43	11	31	32	20	16	7

4. Maximum depth (m)

0.8

5. Associated land use (m)

19

6. Predominant substrate type

CO

7. Percentage river area covered by:

pool Glide Riffle

0	30	70
---	----	----

8. Grid Reference (6 figures)

SD 658 481

Site Number

H15

9. Photograph numbers

10. Site Notes

River was longitudinally separated.

12/3/97

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

51

2. Width of river surveyed (m) at every five metres along site

4.5	6.0	3.9	5.1	3.9	2.9	2.3	2.4	3.0	3.4

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)

2	12	18	22	30	33	31	38	32	30
10	9	8	12	16	14	15	13	12	7
22	25	26	27	31	28	22	20	15	10

4. Maximum depth (m)

6.79

5. Associated land use (m)

RP

6. Predominant substrate type

GP

7. Percentage river area covered by:

pool	Glide	Riffle
0	10	40

8. Grid Reference (6 figures)

SD536384

Site Number

W1

9. Photograph numbers

29-32

10. Site Notes

Access from Blake Hall sea gate opposite house
 land owner John Stackhouse
 01 772 862 250

W2

12/3/97

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m) 52

2. Width of river surveyed (m) at every five metres along site

	6.7	6.2	5.4	5.7	7.6	4.0	3.8	4.1	5.1	4.7
	4.5									

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)

10	15	10	12	14	14	10	5	5	10
10	18	24	28	27	24	16	13	10	9
5	20	35	46	46	45	50	54	35	5

4. Maximum depth (m) 0.86

5. Associated land use (m) RP

6. Predominant substrate type GP

7. Percentage river area covered by:

pool	Glide	Riffle
0	30	50

8. Grid Reference (6 figures) 50 521 364 Site Number W2

9. Photograph numbers 29 - 32

10. Site Notes

p/s end 3m u/s of chain across river
 u/s stop net next to willow tree prior to pool
 Access via footpath from housing estate.

W3

12/3/97

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

63

2. Width of river surveyed (m)
at every five metres along site

3.8	3.3	2.2	3.4	5.7	3.7	4.1	5.2	5.3	5.3
3.9									

3. Depth of river at beginning, middle
and end at 10 equally spaced points
across river (cm)

32	52	45	26	20	15	18	11	15	2
4	12	18	25	20	21	14	5	8	7
35	50	57	57	60	63	64	68	65	53

4. Maximum depth (m)

0.85

5. Associated land use (m)

RP

6. Predominant substrate type

GP

7. Percentage river area covered by:

pool	Glide	Riffle
10	30	50

8. Grid Reference (6 figures)

SD540380

Site Number

W3

9. Photograph numbers

33-37

10. Site Notes

Access - gate past Bad bridge
 Site after bend 100 m from bridge
 landowner Mr Bolton at
 Lockhurst farm
 Langley lane
 Tel: Preston 862 261

BR 1

9/7/97

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

2. Width of river surveyed (m) at every five metres along site

<input type="text" value="5.3"/>	<input type="text" value="3.2"/>	<input type="text" value="3.0"/>	<input type="text" value="1.8"/>	<input type="text" value="2.4"/>	<input type="text" value="2.7"/>	<input type="text" value="2.6"/>	<input type="text" value="2.8"/>	<input type="text" value="2.3"/>	<input type="text" value="1.6"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)

<input type="text" value="22"/>	<input type="text" value="15"/>	<input type="text" value="15"/>	<input type="text" value="15"/>	<input type="text" value="15"/>	<input type="text" value="20"/>	<input type="text" value="25"/>	<input type="text" value="0"/>	<input type="text" value="10"/>	<input type="text" value="15"/>
<input type="text" value="20"/>	<input type="text" value="30"/>	<input type="text" value="25"/>	<input type="text" value="30"/>	<input type="text" value="35"/>	<input type="text" value="35"/>	<input type="text" value="30"/>	<input type="text" value="35"/>	<input type="text" value="25"/>	<input type="text" value="20"/>
<input type="text" value="20"/>	<input type="text" value="25"/>	<input type="text" value="24"/>	<input type="text" value="18"/>	<input type="text" value="16"/>	<input type="text" value="12"/>	<input type="text" value="10"/>	<input type="text" value="9"/>	<input type="text" value="5"/>	<input type="text" value="2"/>

4. Maximum depth (m)

5. Associated land use (m)

6. Predominant substrate type

7. Percentage river area covered by:

pool	Glide	Riffle
<input type="text" value="0"/>	<input type="text" value="50"/>	<input type="text" value="0"/>

8. Grid Reference (6 figures) Site Number

9. Photograph numbers

10. Site Notes
 U/S of Brennand Intake, up to flood channel
 Before right tributary.
 No overhanging canopy
 No fish present
 Coarse bed load
 Hostile env. in spite,
 Good Habitat features.

BR 2

9/7/97

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m) 50

2. Width of river surveyed (m) at every five metres along site

2.4	1.8	2.0	2.8	3.0	3.2	2.6	3.7	2.5	2.5
2.7									

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)

20	20	0	30	30	23	25	22	18	2
10	10	15	15	5	12	10	28	25	25
10	15	10	15	16	20	18	10	20	18

4. Maximum depth (m) 0.3

5. Associated land use (m) UG

6. Predominant substrate type Co

7. Percentage river area covered by:

pool
Glide
Riffle

0	40	15
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8. Grid Reference (6 figures) Site Number

SD 645 543

BR2

9. Photograph numbers

10. Site Notes

No overhanging canopy
 Eroding banks
 Evidence of recent spats.

WH 1

9/7/97

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

50

2. Width of river surveyed (m)
at every five metres along site

4.3 3.8 4.4 1.5 1.3 1.8 2.7 2.7 2.4 3.6

3.5

3. Depth of river at beginning, middle
and end at 10 equally spaced points
across river (cm)

4 5 5 10 10 15 10 5 5 5

5 15 15 15 5 5 10 15 10 5

10 25 20 25 20 20 20 15 0 10

4. Maximum depth (m)

0.4

5. Associated land use (m)

Improved

6. Predominant substrate type

Cobble/Boulder

7. Percentage river area covered by:

pool Glide Riffle

0 60 0

8. Grid Reference (6 figures)

Site Number

SD 656 555

WH 1

9. Photograph numbers

10. Site Notes

D/s end of v/s of footbridge at farm.
No overhanging canopy
No aquatic macrophytes
Very low turbidity
Some filamentous algae + silt
Hot Day, 0/8 cloud cover.

WH 2

9/7/97

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

50

2. Width of river surveyed (m)
at every five metres along site

7.3	5.6	5.2	4.2	5.3	5.5	6.0	6.3	2.9	3.1
2.5									

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)

10	9	10	18	12	11	2	15	10	5
15	16	18	11	9	9	18	24	25	9
5	10	8	8	10	12	12	10	15	20

4. Maximum depth (m)

0.5

5. Associated land use (m)

19

6. Predominant substrate type

CO

7. Percentage river area covered by:

pool Glide Riffle

0	10	20
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8. Grid Reference (6 figures)

SD 661 546

Site Number

WH 2

9. Photograph numbers

10. Site Notes

Much of the bed is exposed.
V. coarse mobile bedload
u/s of ford.
Undercut eroding LH Bank

WH3

9/7/97

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

2. Width of river surveyed (m) at every five metres along site

3. Depth of river at beginning, middle and end at 10 equally spaced points across river

(C14)

4. Maximum depth (m)

5. Associated land use (m)

6. Predominant substrate type

7. Percentage river area covered by:

pool Glide Riffle

8. Grid Reference (6 figures) Site Number

9. Photgraph numbers

10. Site Notes
bedrock features, isolated pool, some overhanging canopy, some filamentous algae.

T1

10/6/97

ELECTRIC FISHING FIELD DATA

- 1. Length of river surveyed (m) 50

- 2. Width of river surveyed (m) 3.8 3.9 2.8 4.6 5.1 3.5 4.1 3.3 5.4 6.0
 at every five metres along site

- 3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)
10 15 6 24 30 36 22 13 3 5
5 20 9 17 15 25 13 32 18 14
12 30 21 22 20 9 14 4 3 15

- 4. Maximum depth (m) 0.46

- 5. Associated land use (m) RP

- 6. Predominant substrate type CO

- 7. Percentage river area covered by:

pool	Glide	Riffle
0	0	15

- 8. Grid Reference (6 figures) SD 598 557 Site Number T1

- 9. Photograph numbers 14 - 17

- 10. Site Notes

T2

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m) 50

2. Width of river surveyed (m) at every five metres along site
2.4 2.5 2.4 2.8 2.8 3.3 2.9 2.4 2.7 2.8

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)
5 9 9 8 5 3 5 10 10 11
5 11 9 9 5 9 10 11 7 5
6 9 10 11 10 7 5 11 5 5

4. Maximum depth (m) 0.47

5. Associated land use (m) 1P

6. Predominant substrate type CO

7. Percentage river area covered by:
pool Glide Riffle
0 5 25

8. Grid Reference (6 figures) Site Number
SD588557 T2

9. Photograph numbers
17 - 21

10. Site Notes
Access through gate after bridge
Site immediately upstream from bridge

T3

10/6/97

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

50

2. Width of river surveyed (m)
at every five metres along site

2.0	2.2	2.5	2.7	3.3	2.8	2.3	2.5	1.3	3.9

3. Depth of river at beginning, middle
and end at 10 equally spaced points
across river (cm)

9	2	19	18	19	19	19	15	10	9
4	1	1	2	4	9	9	8	8	1
9	12	13	18	9	12	6	1	2	1

4. Maximum depth (m)

0.25

5. Associated land use (m)

RP

6. Predominant substrate type

CO

7. Percentage river area covered by:

pool	Glide	Riffle
0	20	30

8. Grid Reference (6 figures)

SD 564 555

Site Number

T3

9. Photograph numbers

21-24

10. Site Notes

Very low flow.

T4

9/7/97

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m)

50

2. Width of river surveyed (m) at every five metres along site

6.4	1.0	0.8	0.9	0.3	1.1	0.4	0.4	0.6	1.1
0.6									

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)

10	9	9	8	0	10	14	12	9	7

4. Maximum depth (m)

0.40

5. Associated land use (m)

15

6. Predominant substrate type

cobble/boulder

7. Percentage river area covered by:

pool	Glide	Riffle
30	0	0

8. Grid Reference (6 figures)

50 55 1 54 5

Site Number

T4

9. Photograph numbers

25-30

10. Site Notes

V. heavily choked with coarse sediments.
 V. little flow.
 Some fish trapped in pools
 Filamentous algae + silt. Dabbed light.

TS

10/6/97

ELECTRIC FISHING FIELD DATA

1. Length of river surveyed (m) 50

2. Width of river surveyed (m) 0.7 1.0 8.1 1.9 ~~2.8~~ 2.8 2.5 3.5 3.6 3.1
 at every five metres along site

3. Depth of river at beginning, middle and end at 10 equally spaced points across river (cm)

3	7	15	21	20	22	20	26	15	11
3	4	6	6	11	10	11	8	9	9
12	8	4	5	7	11	4	10	6	10

4. Maximum depth (m) 0.65

5. Associated land use (m) BL

6. Predominant substrate type CO

7. Percentage river area covered by:

pool	Glide	Riffle
8	30	20

8. Grid Reference (6 figures) SD520551 Site Number TS

9. Photograph numbers 30-34

10. Site Notes
v. low flow.