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SUMMARY OF FISHERIES STATISTICS 1987.

SUMMARY OF FISHERIES STATISTICS, 1987

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1. CATCH STATISTICS

1.1 Rod and Line - Information from Anglers' returns

1.1.1 Salmon Rod Catches by River and Month 1987

RIVER	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	TOTAL	AVERAGE WEIGHT (lb)
Border Esk (England)	-	-	4	-	-	1	3	28	73	30	139	8.21
Eden	18	23	18	29	16	33	32	130	306	234	839	9.49
Derwent	-	-	-	1	1	9	78	146	324	244	803	8.88
Cocker	-	-	-	-	-	-	1	-	5	15	21	7.67
Ellen	-	-	3	1	-	3	6	-	3	13	29	5.83
Ehen	-	-	-	-	-	4	18	27	36	32	117	6.95
Calder	-	-	-	-	-	-	-	-	1	3	4	5.12
Irt	-	-	-	-	-	1	8	15	6	18	48	7.38
Esk	-	-	-	-	-	-	-	5	7	13	25	11.77
Duddon	-	-	-	-	-	1	1	2	8	16	28	7.34
Leven & Brathay	-	-	-	-	-	4	5	10	17	10	46	6.67
Crake	-	-	-	-	-	-	-	2	7	13	22	5.99
Kent	-	-	-	-	6	5	19	41	59	49	179	7.98
Lune	-	1	2	3	2	8	45	145	322	346	874	8.11
Others Northern Area (Annas, Keer, Bela)	-	-	-	-	-	-	2	-	1	-	3	5.83
Ribble	-	-	-	4	4	9	20	55	190	210	492	8.21
Hodder	-	-	-	-	-	3	1	15	26	49	94	10.07
Wyre	-	-	-	-	-	-	-	4	5	10	19	6.55
TOTALS	18	24	27	38	29	81	239	625	1396	1305	3782	8.55

1.1.1 Salmon Rod Catches, Historical Data

RIVER	1983		1984		1985		1986		1987	
	No.	Av.Wt. (lb)	No.	Av.Wt. (lb)	No.	Av.Wt. (lb)	No.	Av.Wt. (lb)	No.	Av.Wt. (lb)
Border Esk (England)	269	9.21	135	9.18	88	9.32	267	9.42	139	8.21
Eden	653	8.61	697	9.14	691	9.97	756	10.13	839	9.49
Derwent	315	8.12	569	7.75	1062	8.42	532	8.89	803	8.88
Cocker	30	7.99	35	6.71	21	7.38	25	7.88	21	7.67
Ellen	26	5.78	16	5.14	26	6.80	12	6.17	29	5.83
Ehen	38	5.95	63	6.37	110	7.36	77	7.41	117	6.95
Calder	4	7.13	20	5.86	3	7.66	4	9.38	4	5.12
Irt	28	7.67	48	6.37	69	6.40	77	7.47	48	7.38
Annas	-	-	3	4.3	3	6.92	8	5.44	2	4.75
Esk	4	6.25	2	8.00	38	7.66	43	10.71	25	11.77
Duddon	5	6.40	7	6.96	31	7.17	38	6.73	28	7.34
Leven	26	6.38	19	6.68	48	6.63	33	6.83	46	6.67
Crake	26	4.48	18	6.25	9	7.36	30	5.93	22	5.99
Kent	63	7.12	47	5.40	97	6.75	239	6.31	179	7.98
Bela	-	-	-	-	-	-	-	-	1	8
Lune	235	8.13	330	7.49	617	9.33	485	8.77	874	8.11
Ribble	236	8.13	266	7.76	229	9.35	368	9.67	492	8.21
Hodder	102	9.25	118	7.60	110	11.19	84	9.96	94	10.07
Wyre	2	5.13	6	5.13	8	5.00	2	12.00	19	6.55
Keer	-	-	1	9.25	-	-	-	-	-	-
Totals and average weights	2062	8.29	2400	7.99	3260	8.90	3080	8.99	3782	8.55

1.1.2 Migratory Trout Rod Catches by River and Month - 1987

RIVER	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	TOTAL	AVERAGE WEIGHT (lb)
Border Esk (England)	19	189	310	127	25	12	682	1.59
Eden	77	232	249	161	45	6	770	1.88
Derwent	9	73	72	51	10	3	218	2.43
Cocker	-	1	6	1	-	-	8	1.69
Ellen	2	2	1	9	5	3	22	2.32
Ehen	17	12	54	77	54	16	230	1.59
Calder	-	-	-	-	-	-	-	-
Irt	-	4	38	29	21	8	100	2.08
Esk	7	25	78	14	5	-	129	1.93
Duddon	-	-	8	6	1	2	17	1.37
Leven & Brathay	-	6	31	50	33	4	124	1.63
Crake	-	2	9	25	12	2	50	1.42
Kent	33	45	98	141	76	20	413	2.09
Lune	28	205	424	545	309	27	1538	2.25
Others, Northern Area	-	5	34	64	43	11	157	1.34
Ribble	16	49	99	118	59	31	372	1.83
Hodder	4	32	108	126	44	13	327	2.03
Wyre	1	1	3	38	9	3	55	1.29
TOTALS	213	883	1622	1582	751	161	5212	1.96

1.1.2 Migratory Trout Rod Catches - Historical Data

RIVER	1983		1984		1985		1986		1987	
	No.	Av.Wt. (lb)	No.	Av.Wt. (lb)	No.	Av.Wt. (lb)	No.	Av.Wt. (lb)	No.	Av.Wt. (lb)
Border Esk (England)	398	1.73	632	1.87	619	1.69	639	1.74	682	1.59
Eden	757	1.98	1216	1.74	698	2.20	478	1.93	770	1.88
Derwent	391	1.40	350	1.78	279	2.18	210	2.82	218	2.43
Cocker	6	1.71	2	2.25	4	2.56	8	9.75	8	1.69
Ellen	7	1.79	4	1.25	1	2.00	4	0.94	22	2.32
Ehen	108	1.65	231	1.94	196	1.67	244	2.05	230	1.59
Calder	33	2.72	-	-	-	-	12	1.00	-	-
Irt	24	2.57	40	1.78	45	2.98	41	2.99	100	2.68
Esk	27	2.50	19	2.09	80	1.70	45	1.51	129	1.93
Duddon	13	2.38	13	2.83	20	2.20	15	1.57	17	1.37
Leven	141	1.79	74	1.87	79	2.38	137	1.72	124	1.63
Crake	58	1.32	65	1.64	25	2.79	35	1.23	50	1.42
Kent	124	1.99	67	1.98	148	2.22	186	1.65	413	2.09
Lune	1080	1.84	1220	1.94	1069	2.36	1115	1.88	1,538	2.25
Others, Northern Area	113	1.24	66	2.00	104	2.19	31	2.02	157	1.38
Ribble	310	2.12	186	2.13	201	2.15	315	2.05	372	1.83
Hodder	216	1.99	247	1.90	401	2.12	259	1.94	327	2.02
Wyre	6	1.38	14	1.48	24	1.58	-	-	55	1.29
Totals and average weights	3812	1.83	4446	1.86	3993	2.14	3774	1.94	5212	1.96

1.2 Commercial Catches by Nets and Fixed Engines

1.2.1 Commercial Salmon Catches by River/District and Month - 1987

RIVER/DISTRICT (TYPE OF NET)	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT	TOTAL	AVERAGE WEIGHT (lb)
Eden & Border Esk	-	-	12	84	268	524	938	173	1999	8.81
Coastal Drift	-	-	-	-	4	100	312	-	416	7.95
South & West Cumbria Nets & Fixed Engines	-	-	-	-	-	-	-	-	-	-
Duddon (Draw Nets)	-	-	-	-	5	8	6	-	19	9.75
Leven (Lave Nets)	-	-	-	-	2	14	6	-	22	7.94
Kent (Lave Nets)	-	-	-	-	-	12	14	-	26	8.04
Lune (Draw Nets)	-	-	-	1	4	17	3	-	25	8.06
Lune (Drift Nets)	-	-	-	7	48	577	1071	-	1703	7.05
Lune (Heave Nets)	-	-	2	14	41	97	180	-	344	7.73
Ribble (Drift Nets)	-	-	1	9	20	182	296	-	508	10.36
Total catch, nets and fixed engines									5062	8.22

1.2.1 Commercial Salmon Catches - Historical Data

RIVER	1983		1984		1985		1986		1987	
	No.	Av.Wt. (lb)	No.	Av.Wt. (lb)	No.	Av.Wt. (lb)	No.	Av.Wt. (lb)	No.	Av.Wt. (lb)
Eden & Border Esk	5058	7.30	4261	7.02	585	8.60	2971	9.54	1999	8.81
Coastal Drift	1167	7.20	735	8.24	417	7.29	868	7.60	416	7.95
South & West										
Cumbria nets and fixed engines	31	6.87	0	-	-	-	11	7.55	-	-
Duddon	59	5.76	51	7.59	10	9.25	16	9.42	19	9.75
Leven	34	7.55	42	5.76	1	10.50	7	6.71	22	7.94
Kent	31	6.32	131	6.64	20	10.25	61	7.16	26	8.04
Lune Draw Nets	22	7.64	54	5.76	15	8.33	59	8.02	25	8.06
Lune Drift Nets	1152	7.75	1306	6.79	912	7.48	1497	7.59	1703	7.05
Lune Heave Nets	503	7.53	870	6.25	204	8.59	758	8.70	344	7.73
Ribble	432	9.31	507	11.25	395	12.19	434	11.09	508	10.36
TOTALS	8489	7.46	7957	7.26	2559	8.55	6682	8.82	5062	8.22

1.2.2 Commercial Catches of Migratory Trout by Nets and Fixed Engines 1987

RIVER/DISTRICT (TYPE OF NET)	APRIL	MAY	JUNE	JULY	AUG.	SEPT	TOTAL	AVERAGE WEIGHT (lb)
Eden & Border Esk	55	1361	2720	912	59	2	5109	2.42
Coastal Drift	-	-	-	12	-	-	12	4.88
South & West Cumbria								
Nets & Fixed engines	-	-	-	-	-	-	-	-
Duddon (Draw Nets)	-	-	35	29	9	-	73	2.42
Leven (Lave Nets)	-	-	3	3	-	-	6	4.00
Kent (Lave Nets)	-	-	-	2	3	-	5	5.40
Lune (Draw Nets)	-	13	9	9	1	-	32	2.67
Lune (Drift Nets)	-	41	108	21	2	-	172	4.74
Lune (Heave Nets)	5	185	354	55	6	-	605	3.14
Ribble (Drift Nets)	-	1	11	5	1	-	18	8.64
Total Catch, nets and fixed engines							6032	2.59

1.2.2 Commercial Catches of Migratory Trout - Historical Data

RIVER	1983		1984		1985		1986		1987	
	No.	Av.Wt. (lb)	No.	Av.Wt. (lb)	No.	Av.Wt. (lb)	No.	Av.Wt. (lb)	No.	Av.Wt. (lb)
Eden and Border Esk	6646	2.37	8291	2.34	5062	2.42	4707	2.40	5109	2.42
Coastal Drift	9	4.89	31	5.00	5	5.0	34	5.62	12	4.88
South & West Cumbria nets and fixed engines	72	2.82	0	-	-	-	49	2.48	-	-
Duddon	84	3.09	101	2.83	38	3.71	31	3.17	73	2.42
Leven	17	4.91	30	4.18	1	5.25	6	3.50	6	4.00
Kent	11	3.60	43	3.06	5	4.30	13	4.73	5	5.40
Lune Draw Nets	6	3.08	44	2.45	66	2.12	21	2.60	32	2.67
Lune Drift Nets	335	5.24	289	4.50	508	4.10	192	5.17	172	4.74
Lune Heave Nets	475	3.30	1865	2.89	738	3.40	557	3.18	605	3.14
Ribble	55	5.85	54	7.47	44	7.98	23	7.51	18	8.64
	7710	2.60	10748	2.54	6467	2.71	5633	2.62	6032	2.59

2. FISH CULTURE AND HATCHERY OPERATIONS 19872.1 Brood fish collection

	<u>Salmon</u>		<u>Sea Trout</u>	
	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
<u>Northern District</u>				
Eden System	78	77	-	-
West Cumbria	10	35	34	43
<u>Central District</u>				
Broadrairie Trap (R. Lune)	113	172	-	-
South Cumbria Rivers	-	-	83	23
Ribble	17	17	0	1
Hodder*	16*	31*	10	11
Wyre	3	9	-	-

*includes 10 male and 10 female salmon transferred to Dunsop Trout Farm for stripping.


2.2 Hatchery operations and Salmon and Sea Trout Stocking2.2.1 Holmwrangle Hatchery

2.2.1.1 Numbers of ova laid down 1987-88

<u>Species</u>	<u>No. of ova</u>	<u>Source</u>
Salmon	125,500	Eden
Salmon	218,600	Derwent
Salmon	83,200	Marron

2.2.1.2 Salmon and Sea Trout Planting
ex-Holmwrangle 1987

<u>River</u>	<u>Fed Fry</u>		<u>0+Parr</u>	<u>1+Parr</u>	<u>Smolts</u>
	<u>Salmon</u>	<u>Sea Trout</u>	<u>Salmon</u>	<u>Salmon</u>	<u>Salmon</u>
Eden system	359,000	4,400	4,000	-	19,819
Caldew (Eden)	-	-	10,000	10,850	15,685
Derwent system	237,000	-	25,000	-	-
Ehen	20,000		-	-	-
Calder	20,000		-	-	-
Esk	15,000		-	-	-
Irt	15,000		-	-	-
Mite	5,000		-	-	-
Annas	5,000		-	-	-
Waver	-	500	-	-	-
Wampool	-	500	-	-	-
Ellen	-	700	-	-	-



 TOTAL 25,000

2.2.2 Middleton Hatchery2.2.2.1 Numbers of ova laid down, 1987-88

<u>Species</u>	<u>No. of ova</u>	<u>Source</u>
Salmon	1,121,000	R. Lune
Salmon	276,140	Ribble & Hodder *
Sea Trout	169,400	South Cumbria Rivers
Sea Trout	26,500	Ribble/Hodder
Char	69,500	Ennerdale

* An additional 31,000 salmon ova were laid down at Dunsop Bridge Trout Farm. Also 20,000 ova from the River Wyre were laid down at Street.

2.2.2.2 Salmon and Sea Trout Planting ex-Middleton, 1987

<u>River</u>	<u>Eyed Ova</u>		<u>Unfed Fry</u>		<u>Fed Fry</u>	
	<u>Salmon</u>	<u>Sea Trout</u>	<u>Salmon</u>	<u>Sea Trout</u>	<u>Salmon</u>	<u>Sea Trout</u>
Duddon	-	-	33,000*	45,600	-	-
Winstar	-	-	5,500*	-	-	-
Gilpin	-	-	5,500*	-	-	-
Kent	-	-	13,400	42,100	-	-
Keer	-	-	-	19,800	-	-
Lune	276,280 ^x	-	390,166	-	-	-
Greta	-	-	26,000	-	-	-
Wenning	-	-	49,800	-	-	-
Wyre	650 ^b	-	25,000*	-	-	-
Ribble	1,350 ^b	-	76,455 ^a	-	-	-
Dunsop Trout Farm	-	-	107,466	-	-	-

* ex Wester Ross originally

x of which 59,920 were ex Wester Ross originally

a of which 73,155 were ex Wester Ross originally

b via Harris boxes on R Wyre

76455

2.2.3.1 Salmon and Sea Trout Planting in Central District Carried out by N.W.W. from Non-N.W.W. Hatchery Source

<u>Date</u>	<u>Stocking Location</u>	<u>No.</u>	<u>Species and Size</u>	<u>Source</u>
12.1.87	Lune tribs	1,000	Salmon 2-3"	F.B.A.
29.4.87	Hodder tribs	<u>12,300</u>	Salmon parr	Dunsop Bridge
5.5.87	Ribble tribs	<u>5,000</u>	Salmon parr	Dunsop Bridge
13.5.87	Lune tribs	3,000	Salmon fry	F.B.A.
13.5.87	Lune tribs	1,000	Salmon 3-5"	F.B.A.
22.6.87	Ribble - main	<u>1,050</u>	Salmon smolts	Brow Well Fish Farm
24.6.87	Ribble - tribs	<u>2,200</u>	Salmon parr	Brow Well Fish Farm

76458
 5000 parr. 2
 1050 - smolts.
 2200
 12300
 17300
 1050
 18350
20550

3. RESTOCKING WITH TROUT AND FRESHWATER FISH 19873.1 Non-Migratory Trout

3.1.1 Stocking by Angling Associations and Fish Farms not excluded under Section 34 of the Salmon Act 1986.

<u>Area</u>	<u>No. of Section 30 Consents Issued</u>	<u>Total No. of Brown Trout</u>	<u>Total No. of Rainbow Trout</u>	<u>Total No. of American Brook Trout</u>
Northern District	54	1,850	313,433	200
Central District	201	67,404	154,219	3,150
Southern District	255	17,441	216,396	11,666*

* includes 10,000 eyed ova.

3.1.2 Non-migratory trout stocking carried out by NWW 1987

3.1.2.1 Northern District

<u>Date</u>	<u>Stocking Location</u>	<u>Brown Trout</u>		
		<u>Number</u>	<u>Size</u>	
19.2.87	Keswick AA	5,000	3-5"	
3.3.87	R. Waver	2,000	3-5"	Pollution Restock
4.3.87	R. Waver	2,000	5-6"	" "
4.3.87	R. Waver	500	7-8"	" "
5.3.87	R. Ehen, Egremont	500	9-10"	
11.3.87	R. Waver	500	9-10"	Pollution Restock
23.3.87	Thirlmere (NWW Supply)	333	10"	
31.3.87	Kirkby Stephen AA	1,000	7-11"	
1.4.87	" " "	2,000	6"	
25.4.87	Knottend Tarn	75	12"	
25.4.87	" " Brook Trout	75	12"	
2.5.87	Penrith AA (Hayeswater)	125	12"	
20.5.87	F. Graham, Alston	250	12"	

3.1.2.1 Continued

<u>Date</u>	<u>Stocking Location</u>	<u>Brown Trout</u>			
		<u>Number</u>	<u>Size</u>		
6.7.87	Northumbrian WA	10,000	3-4"		
20.8.87	R. Eden Appleby	4,000	2-6"	Pollution restock	
20.8.87	" "	200	10"+	" "	
20.8.87	" "	125	10-16"	" "	
20.8.87	" "	35	3 lbs+	" "	
25.8.87	R. Eden Appleby	1,050	10"+	" "	
21.8.87	" "	700	10"+	" "	
26.8.87	" "	700	10"+	" "	
28.8.87	" "	400	10-16"	" "	
29.8.87	" "	200	10-16"	" "	
30.8.87	" "	420	10-16"	" "	
1.9.87	Northumbrian WA	10,000	2-6"		
1.9.87	R. Eden Appleby	5,550	2-6"	Pollution restock	
9.9.87	Pow Maughan Beck	5,000	2-6"	" "	
15.9.87	R. Petteril	2,000	2-6"		
15.9.87	Busta Beck	1,000	2-6"	Pollution restock	
15.9.87	R. Roe	500	2-6"	" "	
15.9.87	R. Wiza	500	2-6"	" "	
15.9.87	R. Wampool	1,000	2-6"	" "	
23.9.87	Keswick AA	5,000	4"		
29.9.87	" "	450	4"		
5.10.87	Northumbrian WA	128	343 lbs Total		
6.10.87	" "	63	190 lbs Total		
5.11.87	R. Eden	200	6"		

3.1.2.2 Central District

<u>Date</u>	<u>Stocking Location</u>	<u>Brown Trout</u>	
		<u>Number</u>	<u>Size</u>
19.3.87 *	Windermere tribs.	12,000	fry
19.3.87 *	Coniston tribs.	6,000	"
19.3.87 *	R. Rothay tribs.	8,000	"
19.3.87 *	R. Gowan (Kent) trib.	4,000	"
25.6.87 x	River Bela	5,000	fry
25.6.87	River Bela	1,500	6"-12"

* All fish supplied by F.B.A. hatchery at Ferry House and distributed by N.W.W.

x Fish supplied by Dunsop Trout Farm

3.1.2.3 Southern District

<u>Date</u>	<u>Stocking Location</u>	<u>Brown Trout</u>		
		<u>Number</u>	<u>Size</u>	
13.3.87	R. Dane	166	6"	Pollution restock
		166	10"	
20.5.87	R. Dane	333	6"-11"	Pollution restock
27.6.87	New Mills	100	12"	
21.7.87	R. Dane	334	6"-14"	Pollution restock

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3.2 Freshwater Fish

3.2.1 Stocking by Angling Associations, etc. 1987

<u>Area</u>	<u>No. of S.30 Consents Issued</u>	<u>Numbers stocked of each species</u>															
		Roach	Rudd	Bream	Chub	Dace	Carp	Crucian Carp	Grass Carp	Tench	Barbel	Gudgeon	Perch	Golden Orfe	Pike	Koi Carp	Mixed Coarse
Northern District	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Central District	43	15,906	750	22,940	1	-	1,415	470	-	740	-	-	290	-	-	-	-
Southern District	119	47,156	41,555	17,797	125	-	8,963	3,600	4,000	2,849	73	1,770	15,493	325	46	4,148	3,000

3.2.2 Total number of fish transfers carried out by NWW on behalf of Angling Clubs 1987

<u>Area</u>	<u>Transfers</u>	Roach	Rudd	Bream	Chub	Dace	Carp	Crucian Carp	Grass Carp	Tench	Barbel	Gudgeon	Perch	Golden Orfe	Pike	Mixed Coarse
Northern District	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Central District	13	2,954	-	-	-	-	36	97	-	-	-	2,500	4,872	-	-	-
Southern District	75	191,000	3,000	155,000	180	52	2,576	8,100	-	2,100	-	5,100	33,700	-	7,500	139,000

3.2.3 Total number of fish rescues carried out by NWW on behalf of Angling Clubs 1987

<u>Area</u>	<u>Rescues</u>	Roach	Rudd	Bream	Chub	Dace	Carp	Crucian Carp	Grass Carp	Tench	Barbel	Gudgeon	Perch	Golden Orfe	Pike	Mixed Carp
Northern District	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Central District	3	700	-	60	-	-	-	600	-	-	-	-	304	-	-	-
Southern District	20	15,400	23	3,300	150	2	220	630	-	41	-	-	1,750	-	1,000	54,000

3.2.4 Fish Grants from NWW Stocks 1987

Area	Association	Receiving Water	Source	Species	No.	Size
Northern District	-	-	-	-	-	-
Central District	L.M.R. Angling Club	LMR Reservoir at Fleetwood	Hy Fly Hatcheries Preesall	Bream	500	Small
	St Michaels Angling Club	River Wyre below Franklaw outfall	Pond at Tarleton Southport	Roach Crucian Carp	83 few	- -
	St Michaels Angling Club	River Wyre below Franklaw outfall	River Hodder below Whitewell and River Ribble above Sawley	Chub	44	1½-2½ lb
Southern District	Victoria Angling Society	Sutton Reservoir Macclesfield	NWW stockpond Bostock	Mixed coarse	5000	-
	Victoria Angling Society	Upper River Weaver, various sites	Armada Fisheries	Chub	1000	2-3"

3.2.5 Fisheries surveys carried out in connection with Assessment, Improvement and Development of Fisheries 1987

Area	Electro Fishing	Netting	Biological	Water Analysis	Advisory Visit
Northern District	4 Surveys 40 Sites	-	4 Surveys 60 Sites	-	31
Central District	67 Sites	1	1	10	31
Southern District	7	62 Sites	1	50	76

4. FISH MOVEMENT RECORDED AT AUTHORITY FISH COUNTERS 19874.1 River Lune

Month	Broadraine		Forge Weir, Halton				Skerton Weir
	Fish under 4 lb.	Fish over 4 lb.	Fish Under 4 lb.		Fish Over 4 lb.		Fish over 4 lb.
			Crest	Pass	Crest	Pass	
January)			7	0	72	10)
February)	Switched off		4	3	32	4	) Switched
March)			20	1	17	9	) off
April	31	1	22	13	62	16	5
May	12	-	-	-	-	-	215
June	30	4	Totals not recorded during counter validation project.				77
July	242	16					6
August	299	115					18
September	611	443					52
Oct 1-15	307	506					2
Oct 16-31	290	530					) Switched
Nov)	Switched		) off				
Dec)	off)				
Total	1822	1615	53	17	183	39	375

4.2 River Kent

The counter at Basinghyll on the River Kent was totally destroyed by a flood in December 1985. The counter has now been rebuilt at a short distance downstream from the original site and was being commissioned at the time of production of this report.

4.3 River Leven

Haverthwaite Counter (Eels dam)

During 1985 it became apparent that ascending salmon and sea trout are able to bypass this counter, and that the numbers recorded are a considerable underestimate of the actual run. The counter was therefore switched off for the whole of 1986, and re-design and re-location of the counter is programmed for summer 1989.

4.4 River Duddon.

Duddon Hall Counter 1987

Month	Fish under 4 lb.	Fish over 4 lb.
January	0	0
February	0	0
March	2	1
April	7	4
May	7	0
June	97	10
July	161	12
August	52	7
September	54	8
October	27	6
November	22	3
December	8	6
Total	437	57

4.5 River Ribble Catchment 1987

	Waddow Hall River Ribble		Locks Weir River Ribble	Winckley Hall River Hodder	
	Under 4 lb.	Over 4 lb.		Under 4 lb.	Over 4 lb.
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	20	0	-	22	0
May	91	4	-	160	1
June	288	22	-	930	5
July	902	193	58 +	734	25
August	787	197	86	104*	10*
September	792	220	98	159*	260*
October	351	73	213	225	40
November	74	53	159	140	48
December	58	44	40	29	21
Total	3363	806	654	2503	410

* Counter repaired between 22/8/87 and 10/9/87

+ Counter out of action until 20/7/87. Estimate of 30 salmon to that date included in July figure.

4.6 River Wyre
Garstang Counter 1987

Month	Fish under 4 lb.	Fish over 4 lb.
January	-	-
February	-	-
March	-	-
April	40	11
May	177	50
June	114	48
July	198	63
August	37	65
September	58	39
October	56	35
November	26	38
December	35	43
Total	741	392

4.7 River Derwent

Yearl Counter.

Because of damage to the counter electrodes no valid fish counts were obtained in 1987. The electrodes are to be repaired as soon as water levels permit.

4.8 River Esk (SW Cumbria)

Crople How

Gravel accumulation in the vicinity of the counter has reduced its efficiency so that the counts that have been obtained are not reliable. Major inriver works are required to resolve the problem.

5. COUNTS OF SALMON AND SEA TROUT SPAWNING REDDS 19875.1 Northern District

<u>River/Area</u>	1984 Salmon	1985 Salmon	1985 Sea Trout	1986 Salmon	1986 Sea Trout	1987 Salmon	1987 Sea Trout
Eden d/s Eden Grove	9	22	-	)No counts possible)due to very high)river levels.		No counts possible high rivers	
Eden d/s Eden Brow	12	-	-)			
Eden u/s Temple Sowerby	150	273	-	204 (on tribs only)	-	505	-
Eden d/s Temple Sowerby	130	96	-	No counts possible due to high water levels.		No counts possible high rivers	
Eamont	44	No counts possible		) ) )		451	
Lowther	124			) ) )		261	
Irthing	36	33	7	) )No counts possible))due to high river))levels.)		No counts possible high river	
Gelt	4	3	27)))			
Border Esk	5	13	-)))			
Black & White Esk	No	counts	possible)))			
Liddel	"	"	")))			
Lyne	"	"	")))			

Note

In all these years, high and turbid river conditions during the autumn made redd counting difficult or impossible, and the figures given above are undoubtedly incomplete.

5.1 Northern District (cont'd)

<u>River/Area</u>	1984		1985		1986		1987	
	Salmon	Sea Trout	Salmon	Sea Trout	Salmon	Sea Trout	Salmon	Sea Trout
Ellen	48	92	147	96	84	-	70	64
Derwent	46	24	160	65	69	46	96	56
Marron	34	58	45	86	44	58	61	249
Cocker	85	43	66	71	104	74	144	103
Greta	57	19	35	12	64	88	129	70
Ehen	(133)		149	88	25	-	288	1192
Keekle (Dub Beck)	-	-		9	No counts due to flooding		Nil	23
Calder	50	-	58	32	No counts due to flooding		30	142
Irt	37	86	189	62	96	13	340	300
Bleng	3	7	43	-	14	-	65	255
Esk	6	19	90	56	No counts due to flooding		57	124
Mite	-	2	16	-	17	-	118	195
Annas	-	24	21	-	14	-	36	28

Note

During 1984 the intermixture of small salmon and large sea trout on the redds in the River Ehen made differentiation impossible.

The majority of counts for Rivers Ellen, Derwent, Marron, Cocker and Greta were made only on tributaries and shallower waters in 1986 due to high river levels.

5.2 Central District

<u>River</u>	1984			1985			1986			1987		
	Salmon	Sea Trout		Salmon	Sea Trout		Salmon	Sea Trout		Salmon	Sea Trout	
Duddon	118	276		62	196		50	178		63	249	
Crake	134	171		153	306		171	146		127	195	
Leven & tribs	105	242		21	258		35	150		159	305	
Eea	-	307		11	338		47	50		-	423	
Winster	-	240		18	241		46	144		-	291	
Gilpin	4	353		21	488		-	205		-	280	
Kent & tribs.	475	695		493	1067		197	479		752	1325	
Bela	54	67		20	63		-	25		54	57	
Keer	7	501		10	623		7	259		13	496	
Lune	348	-		296	113		52	263		521	63	
Rawthey	69	65		13	48		9	53		41	49	
Dee	71	105		14	58		27	62		105	45	
Greta	24	46		49	46		20	24		48	59	
Wenning	63	332		35	242		27	105		44	231	
Other Lune tribs.	64	403		10	714		8	12		102	560	
Ribble	299	253		63	142		88	104		381	298 *	
Hodder	372	No count		109	102		97	-		377	89 *	
Wyre	53	82		119	150		-	-		82	53	

* High water hampered counts on the mid and upper Ribble and the Hodder

6. FISH MORTALITIES 19876.1 Significant Fish Kills Reported6.1.1 Northern District

<u>Date</u>	<u>Location</u>	<u>No.</u>	<u>Species</u>	<u>Cause</u>
8.7.87	R. Eden, Appleby	15389 159045 361 232	Salmon Brown Trout Grayling Chub/Dace	Dairy chemicals
9.8.87	Border Esk Canonbie	252	Sea Trout	Cymag
22.4.87	R. Keekle	219	Brown Trout	Toxic chemicals

6.1.2 Central District

Date	Location	No.	Species	Cause
15.1.87	Burton Beck	20 20	Trout Salmon	Farm slurry
27.1.87	Lancaster Canal	numerous few 1 1 43 2 1	Eel Perch Pike Bream Roach Ruffe Carp	Ice coverage/ milk and cheese waste
30.1.87	R. Lune Forge Weir	50	Dace	Desilting operation
31.1.87	Burneside	45	Brown Trout	Chemical spillage- paper mill
5.2.87	Bulk Lancaster	206	Brown Trout Rainbow Trout	Diesel leakage
29.4.87	R. Brock prior to confluence R. Wyre	140 2,105 730 3,710 1,960 85 200	Roach Eel Chub Loach Stickleback Trout Flounder	Insecticide
30.4.87	Bashall Beck	400 10 25 22 500 500	Brown Trout Salmon Smolts Eel Dace Minnow Stoneloach	Farm drainage
26.5.87	R. Ribble	278 98 1 3	Brown Trout Salmon Smolts Sea Trout Chub	Not determined
6.6.87	Canal at Garstang	135 numerous 20 67 1 8	Bream Roach Tench Eel Brown Trout Ruffe	Not determined

6.1.2 Central District Continued

Date	Location	No.	Species	Cause
18.6.87	Peasey Beck	30	Brown Trout	Farm slurry
19.6.87	Bashall Beck	1 14 10	Brown Trout Bullheads Stoneloach	Farm silage
19.6.87	Greenside Farm Trib R Hindburn	19	Eel	Silage
24.6.87	R Loud	16 3	Brown Trout Salmon	Not determined
8.7.87	Haggs Reservoir	6 8	Bream Roach	Not determined
9.8.87	White Moss Tarn Nr Bouth	20-25	Brown Trout	Deoxygenation
26.8.87	Bull Beck	numerous	Small Fish	Farm effluent
27.8.87	Vicarage Pond Lytham	29	Carp	Not determined
4.9.87	Great Eccleston	60 1	(Bream (Roach (Perch Carp	Not determined
9.9.87	Woodfold Farm Pond Whitechapel	60	Brown Trout	Not determined
4.10.87	Black Beck	404 23	Trout Salmon	Farm Pollution
29.10.87	Damas Gill Beck	15 26	Sea Trout Brown Trout	Chlorine from Water Treatment Plant
1.10.87	Rowton Brook (trib R Conder)	163 2	Brown Trout Sea Trout	Sheep dip

6.1.3 Southern District

Date	Location	No.	Species	Cause
30.9.87	Chew Brook/R Tame u/s Greenfield	20	Brown Trout	Presumed from reservoir draw- down
28.9.87	Brookside Fishery, Betley	41	Rainbow Trout	Farm drainage
27.9.87	Brookside Fishery, Betley	24	Rainbow Trout	Farm drainage
27.9.87	Knowle Syke Bk Rochdale	52	Brown Trout	Illegal transfer
7.9.87	Macclesfield Canal Kent Green	300 100	Roach Gudgeon	Trade effluent spillage to Canal
3.9.87	Middle Bk/R Croal Bolton	19	Roach	Acid spillage
25.8.87	Birkenhead Park Lake	300	Mixed Coarse	Low dissolved oxygen
23.24.8.87	Macclesfield Canal Scholar Green	50,000	Mixed Coarse	Pollution by trade spillage
17.8.87	Ashton Canal	32	Roach/Perch	Pollution by detergent
4.8.87	Capesthorpe Top Pool Macclesfield	10,000	Mixed Coarse	Farm pollution
28.7.87	R Duckow	1,000	Mixed Coarse	Farm pollution
6.7.87	Limey Water	80	Brown Trout	Industrial spillage
29.6.87	Landgates Lodge Wigan	88	Roach	Disease/Handling
27.6.87	Winterly Pool Sandbach	48	Mixed Coarse	Farm drainage
18.6.87	Alden Res Rossendale	23	Perch	Diseased
5.6.87	Huddersfield Canal Dukinfield	97	Mixed Coarse	Industrial spillage
4.6.87	Madeley Pool	1,700	Mixed Coarse	Farm pollution

6.1.3 Southern District Continued

Date	Location	No.	Species	Cause
4.6.87	3 Pools Southport	100,000	Mixed Coarse	Sewage pollution
1.6.87	BICC Helsby	300	Mixed Coarse	Farm pollution
3.6.87	Isle of Man Lodge Waterfoot	2,500	Roach	Low dissolved oxygen
30.5.87	R. Lostock Whittle-le-Woods	46	Mixed Coarse	Highway spillage
24.5.87	Sutton Mill Dam	2,000	Mixed Coarse	Drain down
16.5.87	Tetton Flash Middlewich	37	Carp	Disease
16.5.87	Doddington Hall Pool, Doddington	150	Mixed Coarse	Unknown
8.5.87	R. Ogden Rossendale	200	Brown Trout	Industrial spillage
8.5.87	R. Weaver Nantwich	120	Mixed Coarse	Industrial spillage
1.5.87	Heyrose Farm Pond Tabley	49	Koi Carp	Introduction problems
28.4.87	St. Helens Canal St. Helens	593	Roach	Unknown
28.4.87	Moston Flash Nr. Sandbach	100	Carp	Disease
27.4.87	Macclesfield Canal Congleton	112	Roach	Boat Traffic/ Weather
24.4.87	Cloughbottom Res Rossendale	152	Brown Trout	Pollution from Water Treatment Plant
21.4.87	Turnlee Bk., Glossop	282	Brown Trout	Industrial spillage
7.3.87	Clowbridge Res Rossendale	50	Rainbow Trout	Low pH
29.1.87	Boardman Bk., Middleton	6,000	Sticklebacks	Sewage pollution

6.1.3 Southern District Continued

<u>Date</u>	<u>Location</u>	<u>No.</u>	<u>Species</u>	<u>Cause</u>
26.1.87	Lees St. Lodge Swinton	210	Roach/Perch	Industrial spillage
21.1.87	Hulton Park Lodge Bolton	40	Carp/Roach	Ice cover

7. DETAILS OF FISHERIES PROSECUTIONS

1987/88

Nature of Offence	Section of 1975 Act	Total Charges	Dismissed	Withdrawn	Conditional Discharge	Absolute Discharge	Total Fines £	Costs £	Remarks
Use of illegal instrument (stones)	1	2	0	0	0	0	10	15	
Use of illegal instrument (gaff)	1	9	0	0	0	0	355	55	1 sentence of 2 months imprisonment suspended for 2 years
Use of illegal instrument (light)	1	8	0	0	0	0	360	10	
Use of illegal instrument (snatch)	1	15	0	0	0	0	860	276	
Use of illegal instrument (snare)	1	10	0	0	0	0	395	160	
Taking unclean fish	2	4	0	0	0	0	55	15	
Buys, sells or exposes for sale or has possession of unclean fish	2	4	0	0	0	0	40	5	
Disturbs spawning fish	2	4	0	0	0	0	450	30	
Use of an unauthorised fixed engine	6	9	0	3	0	1	860	50	

7. DETAILS OF FISHERIES PROSECUTIONS

1987/88

Nature of Offence	Section of 1975 Act	Total Charges	Dismissed	Withdrawn	Conditional Discharge	Absolute Discharge	Total Fines	Costs	Remarks
Fishing for or taking freshwater fish during close season	19	35	1	5	0	3	615	370	
Fishing for or taking trout during close season	19	10	0	0	0	0	270	160	
Fishing for or taking Salmon during close season	19	10	0	3	0	1	370	30	
Fishing with unlicensed instrument (net)	27	52	0	0	0	0	2175	230	custodial sentences, 14 days probation to 2 months imprisonment
Fishing with unlicensed instrument (hands)	27	3	0	0	0	0	150	100	
Fishing with unlicensed rod and line	27	432	1	36	2	14	8100	4658	
Obstruction of Bailiff	31	8	0	0	4	1	80	107	
Failing to state correctly name and address/Failing to produce a valid licence	35	155	0	40	0	3	2210	1148	
Buys, sells, exposes for sale or has in possession for sale Salmon	22	1	0	1	0	0	0	0	
Buys, sells, exposes for sale or has in possession for sale Trout	22	3	0	0	0	0	350	65	

7. DETAILS OF FISHERIES PROSECUTIONS

1987/88

Nature of Offence		Total Charges	Dismissed	Withdrawn	Conditional Discharge	Absolute Discharge	Total Fines	Costs	Remarks
Handling salmon in suspicious circumstances	Salmon Act 1986	13	0	4	0	0	2650	480	
Theft of fish	Theft Act 1968	41	0	6	1	1	1155	370	
	<u>BYELAW</u>								
Use of illegal nets	10	11	0	4	0	1	665	215	
Carrying an unlicensed net	14	2	0	0	0	0	25	10	
Removal of fish	15	3	0	3	0	0	0	0	
Using maggot as hook bait	16	42	0	0	0	0	855	262	
Using bait not on or attached to a hook	16	17	0	2	0	0	350	60	
Use of keep nets during the close season	18	15	0	4	0	0	165	70	
	<u>LUNE BYELAW</u>								
Fishing during close season for salmon on the River Lune		5	0	0	0	0	135	80	
		918	2	103	7	25	23505	9011	

8. NUMBERS OF ROD AND COMMERCIAL FISHING
LICENCES ISSUED 1987

8.1 Rod and Line

<u>Whole Area</u>	<u>No.</u>	<u>Duty</u>	<u>Amount</u>
			£
Salmon season	1722	28.00	48,216
Salmon part season (from 1st June)	2326	21.00	48,846
Salmon season - reduced duty	622	14.00	8,709
Salmon part season - reduced duty.	609 2,321	10.50	6,395
Salmon - 7 day	1465	6.50	9,523
Migratory trout season	1547	12.00	18,564
Migratory trout - reduced duty	398	6.00	2,388
Migratory trout - 7 day	753	3.00	2,259
Non-migratory trout season	26886	5.00	134,430
Non-migratory trout - reduced duty.	5307	2.50	13,268
Non-migratory trout - 7 day	9723	1.75	17,015
Freshwater fish and eels - season.	31,456	4.00	125,824
Freshwater fish and eels - reduced duty.	6913	2.00	13,826
Freshwater fish and eels - 7 day	4505	1.00	4,505
	<hr/>		<hr/>
	94232		453,768
	<hr/>		<hr/>

8.2 Instruments Other Than Rod and Line 1987

<u>Northern District</u>			
	<u>No.</u>	<u>Duty</u>	<u>Amount</u> (including endorsees)
		£	£
Whole area - Haaf nets	227	34.50	7,831.50
River Ellen - Haaf nets	1	34.50	34.50
R. Eden District - Draft Nets.	1	420.00	420.40
R. Eden District - Coops	2	164.00	328.00
South West Cumbria - Garth	1	181.50	182.30
Public waters within jurisdiction - Drift nets.	4	175.50	704.20
Totals	<u>236</u>	<u>1,010.00</u>	<u>9,500.90</u>
<u>Central District</u>			
Ribble Estuary - Drift or Hang Nets	6	112.50	679.60
Lune Estuary - Drift or Hang Nets	10	186.00	1,864.20
- Draw or Seine Nets	1	161.50	162.70
- Heave or Haaf Nets	26	71.50	1,859.00
Duddon Estuary - Draw or Seine Nets	3	154.50	466.30
Kent Estuary - Lave nets	8	84.50	676.00
Leven Estuary - Lave nets	6	69.50	417.00
Totals	<u>60</u>	<u>840.00</u>	<u>6,124.80</u>

Eel Fishing Licences - Whole Area

	<u>Duty</u>	<u>No.</u>	<u>No. of Nets</u>	<u>Amount</u>
	£			£
Fyke Nets	1.00 per net	19	566	566.00
Traps/Putcheons/ Baskets	8.50 per 25 or part thereof	13	350	119.00
Dip Nets	1.00 per net	5	8	8.00
Fixed eel traps	42.00 per trap	<u>1</u>	<u>1</u>	<u>42.00</u>
		38	925	735.00

8.3 Numbers of Persons Engaged in Commercial Salmon and Trout Fishing 1987

	<u>Type of Net, Etc</u>				
	Haaf	Drift	Draw	Lave	Fixed Engine
<u>Northern District</u>					
Licence Holders	228	4	1	-	3
Endorsees	-	11	2	-	4
<u>Central District</u>					
Licence Holders	26	16	4	14	-
Endorsees	-	44	20	-	-

8.4 General Licences

Number issued = 9

Total value = £2147

8.5 Temporary Licences (Rod and Line, Freshwater Fish)

Number issued = 120

Total value = £784.90