

299



Rivers Division

**Summary of
Fisheries Statistics
1983**

SUMMARY OF FISHERIES STATISTICS, 1983CONTENTS

1. Catch Statistics
 - 1.1 Rod and line catches (from licence returns)
 - 1.1.1 Salmon
 - 1.1.2 Migratory Trout
 - 1.1.3 Rod and line catches corrected for missing returns
 - 1.2 Commercial catches
 - 1.2.1 Salmon
 - 1.2.2 Migratory Trout
2. Fish Culture and Hatchery Operations
 - 2.1 Brood fish collection
 - 2.2 Hatchery operations and salmon and sea trout stocking
 - 2.2.1 Holmwrangle Hatchery
 - 2.2.1.1 Numbers of ova laid down
 - 2.2.1.2 Salmon and sea trout planting
 - 2.2.2 Middleton Hatchery
 - 2.2.2.1 Numbers of ova laid down
 - 2.2.2.2 Salmon and sea trout planting
 - 2.2.3 Langcliffe Hatchery
 - 2.2.3.1 Numbers of ova laid down
 - 2.2.3.2 Salmon and sea trout planting
 - 2.2.4 Hollingworth Hatchery, Tintwistle
 - 2.2.4.1 Numbers of ova laid down
 - 2.2.4.2 Rainbow trout stocked out

3. Restocking with Trout and Freshwater Fish
 - 3.1 Non-migratory trout
 - 3.1.1 Stocking by Angling Associations etc. and Fish Farms
 - 3.1.2. Stocking by N.W.W.A.
 - 3.1.2.1 North Cumbria
 - 3.1.2.2 South Cumbria/North Lancashire
 - 3.1.2.3 South Lancashire
 - 3.1.2.4 Mersey and Weaver
 - 3.2 Freshwater Fish
 - 3.2.1 Stocking by Angling Associations, etc
 - 3.2.2 Fish transfers carried out by N.W.W.A.
 - 3.2.2.1 Northern Area
 - 3.2.2.2 Southern Area - South Lancashire
 - 3.2.2.3 Southern Area - Mersey and Weaver
 - 3.2.3 Fish Grants from N.W.W.A. stocks
4. Fish Movement Recorded at Authority Fish Counters
 - 4.1 River Lune
 - 4.2 River Kent
 - 4.3 River Leven
 - 4.4 River Duddon
 - 4.5 River Wyre
 - 4.6 River Ribble Catchment
 - 4.7 River Derwent
5. Counts of Salmon and Sea Trout Spawning Redds
 - 5.1 North Cumbria
 - 5.2 West and South Cumbria
 - 5.3 South Cumbria and North Lancashire
 - 5.4 Lancashire

6. Fish Mortalities
 - 6.1 Significant fish kills reported during year
 - 6.1.1 Northern Area
 - 6.1.2 Southern Area
 - 6.2 Numbers of diseased fish removed during year
7. Details of Fisheries Prosecutions
8. Numbers of Rod and Commercial Fishing Licences Issued
 - 8.1 Rod and line
 - 8.2 Instruments other than rod and line
 - 8.3 Number of persons engaged in commercial salmon and trout fishing
 - 8.4. General licences
 - 8.5 Temporary licences

1. CATCH STATISTICS

1.1 Rod and Line - Information from Anglers' returns

1.1.1 Salmon Rod Catches by River and Month 1983

| RIVER | JAN. | FEB. | MAR. | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | TOTAL | AVERAGE WEIGHT (lb) |
|-------------------------|------|------|------|-------|-----|------|------|------|-------|------|-------|------------------------|
| Border Esk (England) | - | 25 | 5 | 1 | 1 | 5 | 1 | 14 | 100 | 117 | 269 | 9.21 |
| Eden | 20 | 24 | 50 | 42 | 19 | 33 | 11 | 38 | 278 | 138 | 653 | 8.61 |
| Derwent | - | 1 | 2 | 1 | 1 | 2 | - | 4 | 178 | 126 | 315 | 8.12 |
| Cocker | - | - | - | - | 1 | - | - | - | 11 | 18 | 30 | 7.99 |
| Ellen | - | - | - | - | - | - | - | - | 3 | 23 | 26 | 5.78 |
| Ehen | - | - | - | - | - | - | - | 2 | 1 | 35 | 38 | 5.95 |
| Calder | - | - | - | - | - | 1 | - | - | 2 | 1 | 4 | 7.13 |
| Irt | - | - | - | - | - | 1 | - | 4 | 12 | 11 | 28 | 7.67 |
| Esk | - | - | - | - | - | - | - | - | 4 | - | 4 | 6.25 |
| Duddon | - | - | - | - | - | - | - | - | 1 | 4 | 5 | 6.40 |
| Leven | - | - | - | - | - | - | - | 1 | 16 | 9 | 26 | 6.38 |
| Crake | - | - | - | 2 | - | - | - | - | 11 | 13 | 26 | 4.48 |
| Kent | - | - | - | - | 3 | 2 | 1 | 6 | 25 | 26 | 63 | 7.12 |
| Lune | - | - | - | 3 | 1 | 2 | 1 | 3 | 125 | 100 | 235 | 8.13 |
| Others Northern Area | - | - | - | - | - | - | - | - | - | - | - | - |
| Ribble | - | - | 2 | 6 | 11 | 5 | 2 | 17 | 67 | 126 | 236 | 8.13 |
| Hodder | - | - | - | - | - | 1 | 2 | 1 | 21 | 77 | 102 | 9.25 |
| Wyre | - | - | - | - | - | - | - | - | - | 2 | 2 | 5.13 |
| TOTALS | 20 | 50 | 59 | 55 | 37 | 52 | 18 | 90 | 855 | 826 | 2062 | 8.29 |

1.1.1 Salmon Rod Catches, Historical Data

| RIVER | 1979 | | 1980 | | 1981 | | 1982 | | 1983 | |
|----------------------------|------|------------|------|------------|------|------------|------|------------|------|------------|
| | No. | Av.Wt.(lb) | No. | Av.Wt.(lb) | No. | Av.Wt.(lb) | No. | Av.Wt.(lb) | No. | Av.Wt.(lb) |
| Border Esk (England) | 89 | 8.62 | 138 | 9.01 | 114 | 11.13 | 108 | 8.65 | 269 | 9.21 |
| Eden | 556 | 11.88 | 578 | 10.41 | 453 | 11.37 | 512 | 8.96 | 653 | 8.61 |
| Derwent | 462 | 8.34 | 831 | 8.38 | 608 | 9.33 | 623 | 7.93 | 315 | 8.12 |
| Cocker | 83 | 7.50 | 93 | 7.60 | 53 | 8.13 | 97 | 7.03 | 30 | 7.99 |
| Ellen | 35 | 5.56 | 40 | 7.44 | 38 | 6.67 | 102 | 5.95 | 26 | 5.78 |
| Ehen | 45 | 6.95 | 97 | 6.34 | 36 | 7.50 | 79 | 5.98 | 38 | 5.95 |
| Calder | 8 | 6.25 | 20 | 6.66 | 19 | 6.67 | 12 | 5.02 | 4 | 7.13 |
| Irt | 30 | 7.01 | 68 | 6.45 | 64 | 7.02 | 27 | 6.23 | 28 | 7.67 |
| Annas | 4 | 3.19 | 15 | 6.28 | 3 | 4.50 | 1 | 6.00 | - | - |
| Esk | 28 | 7.84 | 15 | 7.37 | 15 | 9.30 | 7 | 5.57 | 4 | 6.25 |
| Duddon | 20 | 7.90 | 15 | 8.30 | 5 | 8.25 | 23 | 7.96 | 5 | 6.40 |
| Leven | 22 | 6.25 | 50 | 6.12 | 34 | 8.10 | 75 | 5.17 | 26 | 6.38 |
| Crake | 17 | 4.72 | 37 | 6.11 | 14 | 6.10 | 54 | 5.29 | 26 | 4.48 |
| Kent | 128 | 6.38 | 93 | 6.21 | 143 | 7.44 | 189 | 5.85 | 63 | 7.12 |
| Bela | 3 | 2.50 | 7 | 2.75 | 2 | 3.00 | - | - | - | - |
| Lune | 414 | 9.86 | 607 | 8.48 | 456 | 10.98 | 310 | 7.52 | 235 | 8.13 |
| Ribble | 415 | 8.59 | 751 | 8.52 | 495 | 10.18 | 359 | 8.03 | 236 | 8.13 |
| Hodder | 135 | 9.09 | 205 | 9.81 | 209 | 11.52 | 103 | 8.44 | 102 | 9.25 |
| Wyre | 31 | 4.76 | 24 | 4.96 | 35 | 6.42 | 13 | 6.38 | 2 | 5.13 |
| Keer | 1 | 3.00 | - | - | - | - | 1 | 7.00 | - | - |
| Totals and average weights | 2526 | 9.14 | 3684 | 8.57 | 2796 | 9.99 | 2695 | 7.66 | 2062 | 8.29 |

1.1.2 Migratory Trout Rod Catches by River and Month - 1983

| RIVER | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | TOTAL | AVERAGE WEIGHT (lb) |
|-----------------------|------------|------------|------------|------------|-------------|------------|-------------|------------------------|
| Border Esk (England) | 9 | 146 | 86 | 53 | 90 | 14 | 398 | 1.73 |
| Eden | 38 | 192 | 199 | 173 | 126 | 29 | 757 | 1.98 |
| Derwent | 1 | 30 | 38 | 137 | 122 | 63 | 391 | 1.40 |
| Cocker | 1 | - | 5 | - | - | - | 6 | 1.71 |
| Ellen | - | - | - | - | - | 7 | 7 | 1.79 |
| Ehen | 11 | 1 | 10 | 32 | 32 | 22 | 108 | 1.65 |
| Calder | - | - | 17 | 11 | 5 | - | 33 | 2.72 |
| Irt | - | 3 | 5 | 2 | 7 | 7 | 24 | 2.57 |
| Esk | - | 2 | 8 | 2 | 13 | 2 | 27 | 2.50 |
| Duddon | - | - | 3 | 2 | 2 | 6 | 13 | 2.38 |
| Leven | 11 | 10 | 22 | 10 | 56 | 32 | 141 | 1.79 |
| Crake | - | 6 | 6 | 13 | 8 | 25 | 58 | 1.32 |
| Kent | - | 26 | 18 | 17 | 55 | 8 | 124 | 1.99 |
| Lune | 25 | 188 | 151 | 238 | 372 | 106 | 1080 | 1.84 |
| Others, Northern Area | - | 5 | 8 | 31 | 41 | 28 | 113 | 1.24 |
| Ribble | 14 | 38 | 36 | 61 | 131 | 30 | 310 | 2.12 |
| Hodder | 1 | 22 | 38 | 43 | 90 | 22 | 216 | 1.99 |
| Wyre | - | - | - | 1 | 1 | 4 | 6 | 1.38 |
| TOTALS | 111 | 669 | 650 | 826 | 1151 | 405 | 3812 | 1.83 |

1.1.2 Migratory Trout Rod Catches - Historical Data

| RIVER | 1979 | | 1980 | | 1981 | | 1982 | | 1983 | |
|----------------------------|------|------------|------|------------|------|------------|------|------------|------|------------|
| | No. | Av.Wt.(lb) | No. | Av.Wt.(lb) | No. | Av.Wt.(lb) | No. | Av.Wt.(lb) | No. | Av.Wt.(lb) |
| Border Esk (England) | 707 | 1.46 | 845 | 1.77 | 980 | 1.54 | 735 | 1.61 | 398 | 1.73 |
| Eden | 586 | 1.75 | 838 | 1.90 | 831 | 2.02 | 961 | 2.01 | 757 | 1.98 |
| Derwent | 263 | 1.53 | 320 | 1.91 | 606 | 2.09 | 383 | 1.73 | 391 | 1.40 |
| Cocker | 7 | 3.03 | 13 | 2.17 | 11 | 2.66 | 11 | 1.98 | 6 | 1.71 |
| Ellen | 9 | 1.78 | 37 | 1.80 | 7 | 2.25 | 41 | 1.15 | 7 | 1.79 |
| Ehen | 150 | 1.37 | 109 | 1.49 | 140 | 1.44 | 151 | 1.80 | 108 | 1.65 |
| Calder | 11 | 1.23 | 32 | 1.85 | 5 | 3.20 | 37 | 1.98 | 33 | 2.72 |
| Irt | 29 | 1.52 | 95 | 2.34 | 95 | 2.30 | 39 | 2.06 | 24 | 2.57 |
| Esk | 47 | 1.57 | 115 | 1.72 | 85 | 1.80 | 27 | 1.58 | 27 | 2.50 |
| Duddon | 26 | 1.76 | 75 | 1.81 | 43 | 1.45 | 31 | 1.47 | 13 | 2.38 |
| Leven | 70 | 1.27 | 406 | 1.62 | 353 | 2.07 | 166 | 2.26 | 141 | 1.79 |
| Crake | 62 | 1.14 | 111 | 1.46 | 67 | 1.43 | 71 | 1.45 | 58 | 1.32 |
| Kent | 441 | 1.55 | 386 | 2.01 | 228 | 2.05 | 244 | 1.79 | 124 | 1.99 |
| Lune | 1490 | 1.49 | 2388 | 1.97 | 1310 | 2.14 | 981 | 2.17 | 1080 | 1.84 |
| Others, Northern Area | 57 | 1.17 | 50 | 1.85 | 114 | 1.12 | 107 | 1.60 | 113 | 1.24 |
| Ribble | 184 | 1.40 | 389 | 2.01 | 291 | 2.30 | 164 | 2.06 | 310 | 2.12 |
| Hodder | 310 | 1.85 | 473 | 2.29 | 280 | 2.42 | 349 | 1.98 | 216 | 1.99 |
| Wyre | 51 | 1.32 | 18 | 1.86 | 58 | 1.52 | 59 | 2.06 | 6 | 1.38 |
| Totals and average weights | 4500 | 1.53 | 6700 | 1.92 | 5504 | 1.97 | 4557 | 1.92 | 3812 | 1.83 |

- 1.1.3 Rod and Line Catches 1983 - figures from anglers' returns corrected to allow for those anglers failing to make a return.
(Using the method derived by I. Small and D. Y. Downham of Liverpool University)

| <u>River</u> | <u>Estimated salmon catch</u> | <u>Estimated migratory trout catch</u> |
|----------------------|-------------------------------|--|
| Border Esk (England) | 444 | 685 |
| Eden | 1079 | 1,302 |
| Derwent | 520 | 672 |
| Cocker | 50 | 10 |
| Ellen | 43 | 12 |
| Ehen | 63 | 186 |
| Calder | 7 | 57 |
| Irt | 46 | 41 |
| Esk | 7 | 46 |
| Duddon | 8 | 22 |
| Leven | 43 | 242 |
| Crake | 43 | 100 |
| Kent | 104 | 213 |
| Lune | 388 | 1,858 |
| Others, N. Area | - | 194 |
| Ribble | 390 | 533 |
| Hodder | 168 | 372 |
| Wyre | 3 | 10 |
| Totals | <u>3,406</u> | <u>6,555</u> |

Total number of salmon and migratory trout licences sold = 9,630

Total number of nil returns = 834, total reporting catches = 949,
total returns = 1,783 = 18.5% of total number sold.

NB. Despite the fact that they are legally obliged to do so, a high proportion of licence holders fail to submit a return of their catches of salmon and migratory trout. The figures given in the preceding tables are therefore likely to be a considerable under-estimate of the true catches. Mr. I. Small and Dr. D.Y. Downham of Liverpool University have derived a mathematical method of correcting for missing returns, based on data provided by Water Authorities who are able to send out reminders to offending anglers. In the table above, this correction has been applied to the reported catches for 1983.

While this gives a better estimate of the total catch than simply totalling up the figures submitted by those anglers who do make a return, it should not be regarded as a substitute for a complete return from all anglers.

1.2 Commercial Catches by Nets and Fixed Engines

1.2.1 Commercial Salmon Catches by River/District and Month - 1983

| RIVER/DISTRICT (TYPE OF NET) | FEB. | MAR. | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | TOTAL | AVERAGE WEIGHT (lb). |
|---|------|------|-------|-----|------|------|------|-------|-------|-------------------------|
| Eden & Border Esk | - | - | 6 | 26 | 220 | 1343 | 3066 | 397 | 5058 | 7.30 |
| Coastal Drift | - | - | - | - | 8 | 403 | 756 | - | 1167 | 7.20 |
| South & West Cumbria* Nets & Fixed Engines | - | - | - | - | 4 | 12 | 15 | - | 31 | 6.87 |
| Duddon (Draw Nets) | - | - | - | - | - | 42 | 17 | - | 59 | 5.76 |
| Leven (Lave Nets) | - | - | - | - | 3 | 19 | 12 | - | 34 | 7.55 |
| Kent (Lave Nets) | - | - | - | - | 1 | 15 | 15 | - | 31 | 6.32 |
| Lune (Draw Nets) | - | - | - | - | - | 11 | 11 | - | 22 | 7.64 |
| Lune (Drift Nets) | - | - | - | - | 53 | 335 | 764 | - | 1152 | 7.75 |
| Lune (Heave Nets) | - | - | - | - | 38 | 185 | 280 | - | 503 | 7.53 |
| Ribble (Drift Nets) | - | - | - | 5 | 67 | 93 | 267 | - | 432 | 9.13 |
| Total catch, nets and fixed engines | | | | | | | | | 8489 | 7.46 |

* Includes River Ellen Haaf Nets

1.2.1 Commercial Salmon Catches - Historical Data

| Rivers | 1979 | | 1980 | | 1981 | | 1982 | | 1983 | |
|---|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|
| | No. | Av.Wt.(lb) | No. | Av.Wt.(lb) | No. | Av.Wt.(lb) | No. | Av.Wt.(lb) | No. | Av.Wt.(lb) |
| Eden & Border Esk | 1024 | 8.26 | 1010 | 8.95 | 1337 | 9.11 | 1773 | 7.39 | 5058 | 7.30 |
| Coastal Drift | 275 | 6.92 | 198 | 8.34 | 457 | 8.34 | 748 | 7.16 | 1167 | 7.20 |
| South & West Cumbria* nets and fixed engines | 37 | 7.00 | 142 | 6.47 | 129 | 7.60 | 135 | 7.31 | 31 | 6.87 |
| Duddon | 55 | 4.33 | 82 | 4.84 | 5 | 10.60 | 1 | 7.50 | 59 | 5.76 |
| Leven | 6 | 7.33 | 89 | 7.78 | 25 | 7.34 | 31 | 6.57 | 34 | 7.55 |
| Kent | 97 | 7.66 | 61 | 7.89 | 55 | 8.20 | 39 | 6.10 | 31 | 6.32 |
| Lune Draw Nets | 3 | 8.75 | 19 | 8.25 | 10 | 9.62 | - | - | 22 | 7.64 |
| Lune Drift Nets | 1074 | 8.83 | 1029 | 8.61 | 1889 | 10.68 | 624 | 6.94 | 1152 | 7.75 |
| Lune Heave Nets | 503 | 9.60 | 414 | 8.85 | 331 | 9.83 | 341 | 7.20 | 503 | 7.53 |
| Ribble | 649 | 11.35 | 725 | 12.10 | 810 | 12.22 | 252 | 10.29 | 432 | 9.31 |
| TOTALS | 3723 | 8.96 | 3769 | 9.19 | 5048 | 10.12 | 3944 | 7.42 | 8489 | 7.46 |

*N.B. River Ellen Haaf Nets included from 1981.

1.2.2 Commercial Catches of Migratory Trout by Nets and Fixed Engines 1983

| RIVER/DISTRICT (TYPE OF NET) | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | TOTAL | AVERAGE WEIGHT (lb.) |
|---|-------|------|------|------|------|-------|-------|-------------------------|
| Eden & Border Esk | 22 | 1077 | 3745 | 1617 | 181 | 4 | 6646 | 2.37 |
| Coastal Drift | - | - | 3 | 4 | 2 | - | 9 | 4.89 |
| South & West Cumbria* Nets & Fixed engines | - | - | 54 | 18 | - | - | 72 | 2.82 |
| Duddon (Draw Nets) | - | - | 11 | 52 | 21 | - | 84 | 3.09 |
| Leven (Lave Nets) | - | - | 5 | 10 | 2 | - | 17 | 4.91 |
| Kent (Lave Nets) | - | - | 1 | 2 | 8 | - | 11 | 3.60 |
| Lune (Draw Nets) | - | - | 5 | 1 | - | - | 6 | 3.08 |
| Lune (Drift Nets) | - | 33 | 257 | 40 | 5 | - | 335 | 5.24 |
| Lune (Heave Nets) | - | 27 | 351 | 87 | 10 | - | 475 | 3.30 |
| Ribble (Drift Nets) | - | 1 | 34 | 12 | 8 | - | 55 | 5.85 |
| Total Catch, nets and fixed engines | | | | | | | 7710 | 2.60 |

* Includes River Ellen Haaf Nets

1.2.2 Commercial Catches of Migratory Trout - Historical Data

| Rivers | 1979 | | 1980 | | 1981 | | 1982 | | 1983 | |
|---|------|------------|------|------------|------|------------|------|------------|------|------------|
| | No. | Av.Wt.(lb) | No. | Av.Wt.(lb) | No. | Av.Wt.(lb) | No. | Av.Wt.(lb) | No. | Av.Wt.(lb) |
| Eden and Border Esk | 2141 | 2.49 | 5674 | 2.16 | 3955 | 2.22 | 6688 | 2.42 | 6646 | 2.37 |
| Coastal Drift | 5 | 4.80 | 11 | 5.00 | 17 | 4.68 | 35 | 4.91 | 9 | 4.89 |
| South & West Cumbria* nets and fixed engines | 6 | 7.17 | 16 | 4.06 | 192 | 2.28 | 191 | 2.09 | 72 | 2.82 |
| Duddon | 76 | 2.67 | 97 | 2.80 | 11 | 3.11 | 15 | 2.26 | 84 | 3.09 |
| Leven | - | - | 40 | 5.53 | 9 | 3.94 | 15 | 4.36 | 17 | 4.91 |
| Kent | 20 | 2.90 | 22 | 3.18 | 12 | 4.75 | 46 | 4.08 | 11 | 3.60 |
| Lune Draw Nets | 17 | 2.59 | 111 | 2.97 | 12 | 3.08 | - | - | 6 | 3.08 |
| Lune Drift Nets | 77 | 4.64 | 303 | 4.37 | 362 | 5.00 | 428 | 4.77 | 335 | 5.24 |
| Lune Heave Nets | 575 | 3.45 | 1935 | 2.93 | 561 | 3.41 | 400 | 3.59 | 475 | 3.30 |
| Ribble | 9 | 5.50 | 22 | 5.29 | 18 | 5.72 | 26 | 4.52 | 55 | 5.85 |

N.B. River Ellen Haaf Nets included from 1981

2. FISH CULTURE AND HATCHERY OPERATIONS

2.1 Brood Fish Collection

| | <u>Salmon</u> | | <u>Sea Trout</u> | |
|---|---------------|---------------|------------------|---------------|
| | <u>Male</u> | <u>Female</u> | <u>Male</u> | <u>Female</u> |
| <u>North Cumbria</u> | | | | |
| West Cumbria (For Keswick Hatchery) | 4 | 3 | 5 | 8 |
| <u>South Cumbria / North Lancashire</u> | | | | |
| Broadrairie Trap (River Lune) | 56 | 74 | 10 | 16 |
| South Cumbria Rivers | 10 | 11 | 46 | 62 |
| <u>Lancashire</u> | | | | |
| Ribble | 23 | 23 | 51 | 25 |
| Hodder | - | - | - | - |
| Wyre | 2 | 1 | - | - |

2.2 Hatchery Operations and Salmon and Sea Trout Stocking

2.2.1 Holmwrangle Hatchery

2.2.1.1 Numbers of ova laid down 1982-83

| <u>Species</u> | <u>No. of ova</u> | <u>Source</u> |
|----------------|-------------------|-------------------------|
| Brown trout | 180,000 | Holmwrangle Brood Stock |

Commencing in June, 1983, restrictions on movement of fish to and from Holmwrangle Hatchery were imposed by the Ministry of Agriculture, Fisheries and Food under the terms of the Diseases of Fish Act, 1937. No salmon or sea trout brood fish or ova were therefore brought into the hatchery during the 1983 spawning season. However, some ova were laid down in the Keswick A.A. hatchery, details as follows:

Salmon: 70,000; Sea Trout: 25,000

2.2.1.2 Salmon and Sea Trout Planting ex Holmwrangle, 1983

| <u>River</u> | <u>Fed Fry</u> | | <u>Smolts</u> <u>Salmon</u> |
|---------------------|----------------|------------------|--------------------------------|
| | <u>Salmon</u> | <u>Sea Trout</u> | |
| Eden system | 70,000 | - | 8,700 |
| Gelt/Irthing | - | 10,000 | - |
| Wampool | - | 250 | - |
| Ellen | - | 20,000* | 2,500 |
| S.W. Cumbria rivers | - | 40,000 | - |
| Levens (S.Cumbria) | - | - | 7,500 |

*Fry produced at Keswick A.A. hatchery.

2.2.2 Middleton Hatchery

2.2.2.1 Numbers of ova laid down, 1983-84

| <u>Species</u> | <u>No. of ova</u> | <u>Source</u> |
|----------------|-------------------|-----------------------------|
| Salmon | 441,600 | Broadraine Trap, River Lune |
| Salmon | 61,300 | South Cumbria rivers |
| Salmon | 90,000 | Purchased from Scotland |
| Sea Trout | 34,200 | Broadraine Trap, River Lune |
| Sea Trout | 111,000 | South Cumbria rivers |

2.2.2.2 Salmon and Sea Trout planting ex-Middleton, 1983

| <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 | - | - | - | - | 11,200 | 26,400 |
| Crake | - | - | - | - | - | 43,900 |
| Kent | - | - | - | 25,500 | - | - |
| Keer | - | - | - | 5,500 | - | - |
| Greta | - | - | - | - | 25,000 | - |
| Wenning | - | - | - | - | 50,000 | - |
| Other Lune tribs. | 147,600 | - | 79,200 | - | 99,900 | - |

Note In addition, 28,000 salmon eyed ova purchased from the Isle of Lewis were incubated at Middleton and stocked as fed fry into the Duddon system. These ova were paid for by the Duddon fishery owners.

2.2.3 Langcliffe Hatchery

2.2.3.1 Numbers of ova laid down, 1983-84

| <u>Species</u> | <u>No. of ova</u> | <u>Source</u> |
|----------------|-------------------|------------------------|
| Salmon | 153,000 | River Ribble |
| Salmon | 70,000 | Scotland* |
| Salmon | 3,000 | River Wyre ** |
| Sea Trout | 91,500 | Ribble and tributaries |

*Provided by a commercial salmon producer in exchange for 40,000 salmon ova to be provided from Lancashire rivers in 1984 for use in gene pool experiments.

**Incubated in egg boxes planted in Street Lakes overflow channel.

2.2.3.2 Salmon and Sea Trout planting ex-Langcliffe, 1983

| <u>River</u> | <u>Eyed ova</u> | | <u>Unfed Fry</u> | |
|--------------|-----------------|------------------|------------------|------------------|
| | <u>Salmon</u> | <u>Sea Trout</u> | <u>Salmon</u> | <u>Sea Trout</u> |
| Ribble | - | - | 100,000 | 29,500 * |
| Hodder | - | - | 80,000 | 8,000 |
| Wyre | 11,000** | 5,000** | 22,000 | - |

*Includes 20,000 fry planted in Howgill Beck (Swanside Beck) from ova paid for by Mitre A.C. out of a compensation payment received after a fish kill in 1980.

**Incubated in egg boxes planted in Street Lakes overflow channel.

NE 3,000 salmon smolts obtained from a commercial supplier were released into the River Hodder in April 1983 as compensation for siltation damage to redds in 1980.

2.2.4 Hollingworth Hatchery, Tintwistle

2.2.4.1 Numbers of ova laid down

Operations at this hatchery were terminated at the end of the 1983 trout season as the reservoir in which the growing-on cages were situated is to be drained and abandoned early in 1984.

2.2.4.2 Rainbow trout stocking ex-Hollingworth, 1983

| <u>Date</u> | <u>Stocking Location</u> | <u>Rainbow Trout</u> | |
|-------------|---|----------------------|-------------|
| | | <u>No.</u> | <u>Size</u> |
| Mar.-Sept. | N.W.W.A. Western Division Reservoirs | 8,900 | 12" + |
| Mar.-Sept. | N.W.W.A. Eastern Division | 16,600 | 12" + |
| 22/6/83 | Stocks Reservoir | 17,181 | 3-4" |

3. RESTOCKING WITH TROUT AND FRESHWATER FISH

3.1 Non-migratory Trout

3.1.1 Stocking by Angling Associations, etc. and Fish Farms

| <u>Area</u> | <u>No. of Sect.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> |
|--------------------------------|---|------------------------------------|--------------------------------------|---|
| North Cumbria | 70 | 13,900 | 1,035,808 | 250 |
| South Cumbria/ North Lancs. | 117 | 116,025 (incl.80,000 ova) | 365,000 (incl. 20,000 ova) | 10,625 (incl. 10,000 ova) |
| South Lancashire | 87 | 35,200 | 15,854 | 1,400 |
| Mersey and Weaver | 142 | 17,735 | 228,065 | 2,050 |

3.1.2 Non-migratory trout stocking carried out by N.W.W.A.

3.1.2.1. North Cumbria

| <u>Date</u> | <u>Stocking Location</u> | <u>Brown Trout</u> | |
|-------------|--|--------------------|-------------|
| | | <u>No.</u> | <u>Size</u> |
| 30/3/83 | Loweswater (sold to National Trust) | 3,500 | 4" |
| 14/4/83 | Rivers Eamont and Petteril (sold to Penrith A.A.) | 4,000 | 6" |
| 19/4/83 | River Eden and tribs. (sold to Kirkby Stephen A.A.) | 3,000 | 6" |
| -/4/83 | River Eden | 22,200 | Fed fry |
| 27/4/83 | River Ellen* | 1,000 | 6" |
| 27/4/83 | River Ellen* | 3,000 | 2-3" |
| -/4/83 | River Ellen* | 3,000 | Fed fry |
| -/4/83 | River Wampool* | 250 | Fed fry |
| -/4/83 | West Cumbria rivers | 2,000 | Fed fry |
| -/4/83 | South West Cumbria rivers | 10,000 | Fed fry |
| 18/5/83 | River Wampool* | 75 | 3-6" |
| 19/5/83 | King Water* | 250 | 3-6" |
| 16/6/83 | River Ehen* | 100 | 4-6" |

* Compensatory stockings following pollution incidents.

3.1.2.2 South Cumbria/North Lancashire

| <u>Date</u> | <u>Stocking Location</u> | <u>Brown Trout</u> | |
|-------------|--------------------------|--------------------|-------------|
| | | <u>No.</u> | <u>Size</u> |
| 11/5/83 | River Lune, Halton | 500 | 9" |

3.1.2.3 South Lancashire

| <u>Date</u> | <u>Stocking Location</u> | <u>Brown Trout</u> | | <u>Rainbow Trout</u> | |
|-------------|--------------------------|--------------------|-------------|----------------------|-------------|
| | | <u>No.</u> | <u>Size</u> | <u>No.</u> | <u>Size</u> |
| 10/4/83 | River Ribble, Mitton | 200 | 10-12" | - | - |
| 4/5/83 | River Ribble, Mitton | 200 | 10-12" | - | - |
| 22/6/83 | Stocks Reservoir | - | - | 17,181 | 3-4" |
| 7/7/83 | River Hodder tribs. | 5,000 | 2-4" | - | - |
| 8/8/83 | River Ribble tribs. | 6,000 | 2-4" | - | - |
| 8/8/83 | River Calder tribs. | 4,000 | 2-4" | - | - |

3.1.2.4 Mersey and Weaver

| <u>Date</u> | <u>Stocking Location</u> | <u>Brown Trout</u> | | <u>Rainbow Trout</u> | |
|-------------|-----------------------------|--------------------|-------------|----------------------|-------------|
| | | <u>No.</u> | <u>Size</u> | <u>No.</u> | <u>Size</u> |
| Mar.-Sept. | Upper Rivington Reservoir | - | - | 6,200 | 12" + |
| Mar.-Sept. | Upper Roddleswoth Reservoir | - | - | 2,700 | 12" + |
| Mar.-Sept. | Bottoms Reservoir | - | - | 3,100 | 12" + |
| Mar.-Sept. | Valehouse Reservoir | - | - | 3,100 | 12" + |
| Mar.-Sept. | Cote Lodge Reservoir | - | - | 300 | 12" + |
| Mar.-Sept. | Walkerwood Reservoir | - | - | 1,700 | 12" + |
| Mar.-Sept. | Entwistle Reservoir | - | - | 3,700 | 12" + |
| Mar.-Sept. | Wayoh Reservoir | - | - | 3,700 | 12" + |
| Mar.-Sept. | Dingle Reservoir | - | - | 1,950 | 12" + |
| Mar.-Sept. | Heaton Reservoir | - | - | 1,650 | 12" + |
| 31/3/83 | River Goyt | 600 | 5-7" | - | - |

3.2 Freshwater Fish

3.2.1 Stocking by Angling Associations, etc.

| <u>Area</u> | <u>No. of Sect. 30 Consents Issued</u> | Roach | Rudd | Bream | Chub | Dace | Carp | Crucian Carp | Grass Carp | Tench | Barbel | Gudgeon | Perch | Ruffe | Pike | Eels | Grayling | Mixed |
|----------------------|--|-------|------|-------|------|------|-------|-----------------|---------------|-------|--------|---------|-------|-------|------|------|----------|-------|
| North Cumbria | 1 | 500 | 500 | 115 | - | - | 692 | - | - | 240 | - | - | - | - | - | - | - | - |
| South Cumbria | 7 | 4200 | 20 | 1500 | - | - | 85 | - | - | 700 | - | - | - | - | - | - | - | - |
| South Lancashire | 36 | 26200 | 201 | 3817 | - | - | 5400 | 86 | - | 1555 | - | - | 1712 | - | 12 | - | - | - |
| Mersey and Weaver | 126 | 75446 | 7480 | 11075 | 351 | 51 | 31085 | 1861 | 1700 | 9243 | 500 | 3 | 9696 | 5000 | 72 | 62 | 100 | 20450 |

3.2.2. Fish transfers carried out by NWWA on behalf of Angling Associations

3.2.2.1. Northern Area - South Cumbria/North Lancashire

| <u>Date</u> | <u>Association</u> | <u>Receiving Water</u> | <u>Source</u> | <u>Species</u> | <u>No.</u> | <u>Size</u> |
|-------------|------------------------------|------------------------|-----------------|----------------|------------|--------------------------|
| -/4/83 | Northern Anglers | Lancaster Canal | Burlington Lake | Perch | 300 | 3-8" |
| -/4/83 | - | Pool at Overton | Burlington Lake | Perch | 100 | 3-8" |
| -/4/83 | Lonsdale A.C. | Bailrigg Lake | Burlington Lake | Perch | 150 | 3-8" |
| -/4/83 | Kendal & District A.C. | Gatebeck Reservoir | Burlington Lake | Perch | 24 | 3-8" |
| -/4/83 | Ashton in Makerfield A.A. | Pool | Burlington Lake | Perch | 350 | 3-8" |
| -/4/83 | N.C.B. | Pool at Whitehaven | Burlington Lake | Perch | 200 | 3-8" |
| -/4/83 | Lymm A.A. | Pool | Burlington Lake | Perch | 800 | 3-8" |
| -/4/83 | Lymm A.A. | Hatchmere | Coniston | Pike | 57 | 3-18 lbs. |
| -/4/83 | Lymm A.A. | Hatchmere | Ulverston Canal | Pike | 27 | 1 $\frac{1}{2}$ -13 lbs. |

3.2.2.2 South Lancashire

| <u>Date</u> | <u>Association</u> | <u>Receiving Water</u> | <u>Source</u> | <u>Species</u> | <u>No.</u> | <u>Size</u> |
|--------------------------|-----------------------------------|--------------------------------|------------------------------------|---------------------------------|---------------|-------------|
| 24-25/1/83) 4/2/83) | Northern Anglers' Association | Lancaster Canal, Bilsborrow | Adjacent length of canal | Mixed coarse | 550 | Various |
| 11/4/83 | Clitheroe Anglers | River Ribble | West Bradford Lodge | Brown trout | 1,801 | 9 - 13" |
| 13/5/83 | Marsden Star A.C. | Greenfield Reservoir | Gawthorpe Hall | Roach and perch | 1,100 | Various |
| 17/5/83 | L.N.T.D.C. | Cuerden Lake | Cuerden Pond | Perch | 44 | |
| 24/5/83 | Northern Anglers' Association | Lancaster Canal | Cottam Pond | Crucian carp, roach and rudd | 32 | |
| 2/6/83 | N.W.W.A. | River Hodder | Stocks Reservoir | Trout, chub and grayling | 50 | |
| 8/6/83 | Hyndburn and District A.A. | Butts Mill Lodge | Wilpshire Golf Coarse Pond | Perch | 177 | |
| 13/6/83 | Tootal A.C. | Tootal A.C. Water | Barrow Lodge | Mixed coarse | 1,500 | |
| 5/7/83 | Northern Anglers' Association | Leeds-Liverpool Canal | Blackburn Corporation Lake | Mixed coarse | 1,500 | |
| 27/7/83 | Grosvenor Estate | River Wyre | Tarnbrook, Wyre | Salmonids | 200 | |
| 30/7/83 | Grosvenor Estate | River Wyre | Marshaw, Wyre | Salmonids | 380 | |
| 7/8/83 | Stocks A.C. | Bottoms Beck | Dunsop Trout Farm | Brown Trout | 5,000 | Fry |
| 4-5/10 /83 | Colne A.A. (For Northern A.A.) | Leeds-Liverpool Canal | Brownhills Reservoir, Foulridge | Roach Bream and Perch | 10,000 500 | |

3.2.2.2 (continued)

| <u>Date</u> | <u>Association</u> | <u>Receiving Water</u> | <u>Source</u> | <u>Species</u> | <u>No.</u> | <u>Size</u> |
|-------------|-------------------------------|------------------------|------------------|----------------|------------|-------------|
| 5/11/83 | Hyndburn and District A.A. | River Calder | River Ribble | Chub and Dace | 420 | |
| 9/11/83 | Preesall A.C. | Preesall Flash | Thornton Pits | Mixed coarse | 350 | |
| 21/11/83 | N.W.W.A. | Whitendale Beck | River Dunsop | Salmonids | 20 | |
| 15/12/83 | Northern Anglers' Association | Lancaster Canal | Adjacent section | Mixed coarse | 350 | |

3.2.2.3 Mersey and Weaver (Includes transfers in South Lancashire involving North Mersey team)

| <u>Date</u> | <u>Association</u> | <u>Receiving Water</u> | <u>Source</u> | <u>Species</u> | <u>No</u> |
|-------------------|--------------------------------|--------------------------------|---------------------|-----------------|-----------|
| 6-7.1.83 | Bury A.C. | Lodge at Tottington | Smethwick Lodge | Mixed coarse | 26,000 |
| 19.1.83 | Lumb Valley A.C. | Jacks Lodge, Bacup | New Line Reservoir | Mixed coarse | 1,500 |
| 1.2.83 | Red Lion A.C. | Platts Lane Pond, Burscough | Hillside Golf Club | Mixed coarse | 3,500 |
| 6.2.83 | Bolton Sunday School League | Lodge at Bridge St. | Limefield Reservoir | Perch Tench | 2,000 |
| 9.2.83 | Saddleworth A.C. | Lower Pound | Huddersfield Canal | Mixed coarse | 50 |
| 24.2.83 2.3.83 | Bolton Sunday School League | Mortfield Reservoir | Limefield Reservoir | Mixed coarse | 4,000 |
| 3.3.83 | Lumb Valley A.C. | Jack's Lodge | Tip Lodge | Mixed coarse | 400 |
| 4.3.83 | Cheshire C.C. | Bollin Valley Ponds | Shakerley Mere | Roach | 1,500 |
| 7.3.83 | Radcliffe A.C. | Cherry Tree Lodge | Mill Lodge | Mixed coarse | 12 |
| 18.3.83 | Bury A.C. | Island Lodge | Top Lodge, Bury | Mixed coarse | 650 |
| 19.-20.3.83 | Wigan A.C. | Heapy's No.2. Lodge | Heapy's No.1 Lodge | Mixed coarse | 58,000 |
| 15.4.83 | Irby A.C. | Birkenhead Park Lake | Ellesmere Port Pond | Mixed coarse | 4 |
| 18.4.83 | Royal Navy A.C. | Betley Lodge | Capesthorpe Pool | Mixed coarse | 124 |

3.2.2.3. (continued)

| <u>Date</u> | <u>Association</u> | <u>Receiving Water</u> | <u>Source</u> | <u>Species</u> | <u>No</u> |
|-------------------|----------------------------|------------------------|--------------------------|-----------------|-----------|
| 19.4.83 | Bury A.C. | Bolholt Lodge, Bury | Duck Pond | Mixed coarse | 1,700 |
| 19.4.83 | Red Lion A.C. | Platts Lane | Littlewoods Clay Hole | Mixed coarse | 1,000 |
| 24.4.83 | Abram Labour Club | Kingsdown Flash | Farm pond | Mixed coarse | 300 |
| 23.4.83 | Saddleworth & Dist A.C. | Huddersfield Canal | Alexandra Park | Mixed coarse | 6,000 |
| 3.5.83 21.5.83 | Red Lion A.C. | Platts Lane | Littlewoods Clay Hole | Mixed coarse | 11,500 |
| 8.5.83 | Wigan A.C. | Heapy's No.8 Lodge | Heapy's No.1 Lodge | Mixed coarse | 10,000 |
| 9.5.83 | Davenham A.C. | Prichards Pits | Octel (Lostock) | Carp | 3 |
| 24-25.5.83 | Middlewich A.S. | R. Dane | Ravenscroft Resr. | Mixed coarse | 25,000 |
| 25.5.83 | Croston A.C. | Clayhole at Croston | Littlewoods Clay Hole | Mixed coarse | 2,000 |
| 25.5.83 | Private stocking | Farm pond, Rainhill | Littlewoods Clay Hole | Mixed coarse | 200 |
| 8.6.83 | Unsworth A.C. | Black Duck Pit | Farm pond | Mixed coarse | 2,000 |
| 13.6.83 | Osram A.C. | Tile Lodge, Shaw | Chadwick Mill Lodge | Mixed | 2,800 |
| | | Osram Lodge, Shaw | - " - | Carp | 100 |

3.2.2.3. (continued)

| <u>Date</u> | <u>Association</u> | <u>Receiving Water</u> | <u>Source</u> | <u>Species</u> | <u>No.</u> |
|-------------|---------------------------|----------------------------|---------------------------|-----------------------|-----------------|
| 27.7.83 | Unsworth A.C. | Black Duck Pit | Appleton Park | Mixed coarse | 750 |
| 2.8.83 | Manchester C.C. | Rhodes Lodges | Rhodes Lodges | Mixed coarse | 500 |
| 13.8.83 | Newton-le-Willows A.C. | Yew Tree Flash | Bold Colliery | Crucian Carp | 4,400 |
| 13.8.83 | Stag A.C. | Pewfall Reservoir | Bold Colliery | Crucian Carp | 400 |
| 16.8.83 | Stag A.C. | Pewfall Reservoir | Groves Pit | Roach | 1,500 |
| 24.8.83 | Whiston A.C. | Cricket Pitch Pond | Silver Lane Pond | Rudd | 1,000 |
| 9.9.83 | Private | Capesthorpe Stock Pool | Capesthorpe Lower Pool | Carp Tench Pike | 77 100 10 |
| - " - | - " - | Capesthorpe Middle Pool | - " - | Mixed coarse | 6,000 |
| 16.9.83 | Northern A.A. | Leeds/Liverpool Canal | Ponds at Darwen | Mixed coarse | 1,000 |
| 22.9.83 | Private | Capesthorpe Lower Pool | Capesthorpe Stock Pool | Carp Pike | 22 10 |
| 21.9.83 | Lumb Valley A.C. | Jack Lodge | Alden Lodge | Mixed coarse | 1,500 |
| 27.9.83 | St. Helens A.C. | Leg of Mutton Dam | Carr Mill Dam | Roach | 2,000 |
| 29.9.83 | Stag A.C. | Pewfall Reservoir | Carr Mill Dam | Roach | 400 |

3.2.2.3. (continued)

| <u>Date</u> | <u>Association</u> | <u>Receiving Water</u> | <u>Source</u> | <u>Species</u> | <u>No.</u> |
|-------------|---------------------|---------------------------|---------------------------|-----------------|------------|
| 5.10.83 | Parkhall A.S. | Mill Lodge, Bolton | Farm Pond | Mixed coarse | 50 |
| 10.10.83 | Northern A.A. | Leeds/Liverpool Canal | Watery Lane, Darwen | Mixed coarse | 2,000 |
| 12.10.83 | NALGO A.S. | Stanhill Resr. Darwen | Star Paper Mill | Roach | 3,500 |
| 14.10.83 | Horwich A.S. | Cooke-Nuttals Resr. | Millstone Lodge | Mixed coarse | 400 |
| 16.10.83 | Mill A.S. | Carrington-Viyella | Farm Pond | Mixed coarse | 500 |
| 19.10.83 | Golden Lion A.S. | Moss Lodges | Brittanic Gardens | Roach | 300 |
| 29.10.83 | Private | Pond at Hawkshaw | Springwood Lodge | Mixed coarse | 300 |
| 6.11.83 | Private | Capesthorpe Lower Pool | Capesthorpe Stock Pool | Carp | 40 |
| 9.11.83 | Northern A.A. | Leeds/Liverpool Canal | Star Paper Mill | Roach | 5,000 |
| 10.11.83 | Stoke A.C. | Biddulph Brook | Macclesfield Canal | Mixed coarse | 10,000 |
| 12.11.83 | St. Helens Ramblers | Whiston A.C. Pond | Paddock Dam | Mixed coarse | 2,500 |
| - " - | - " - | Cromptons Lodge | - " - | Mixed coarse | 2,500 |
| 16.11.83 | Withnell A.C. | Roach Bridge | Withnell Lodge | Roach | 1,000 |
| 28.11.83 | G.P.O. A.C. | Starkeyps Pond | Farm Pond | Mixed coarse | 70 |

3.2.2.3. (continued)

| <u>Date</u> | <u>Association</u> | <u>Receiving Water</u> | <u>Source</u> | <u>Species</u> | <u>No.</u> |
|------------------------|------------------------------|--------------------------|--------------------------|-----------------|------------------|
| 30.11.83 | N.W.W.A. | Filter Beds | Chorley Reservoir | Mixed coarse | 2,500 |
| 2.12.83) | Bolton A.S. | Bolton/Bury Canal | Doffcocker Lodges | Mixed coarse | 121,150 |
| 3.12.83) | | | | | |
| 5.12.83) | | | | | |
| 19.12.83) | | | | | |
| 20.12.83) | | | | | |
| 6.12.83 | G.M.C. | Holding Pen | Cromptons Lodge | Pike | 57 |
| 11.12.83 | Heywood A.S. | Club Lodge | Broadfield Mill Lodge | Mixed coarse | 1,000 |
| 15.12.83 | | | | | |
| 21.12.83 | Bolton A.S. | Gleaves Reservoir | Doffcocker Lodge | Mixed coarse | 50,000 |
| - " - | - " - | Ingladene Reservoir | - " - | Mixed coarse | 60,000 |
| 2.12.83 to 21.12.83 | Bolton A.S. and Lymm A.C. | Hatchmere (Lymm A.C.) | Doffcocker Lodge | Pike | 600 (41b - 101b) |

3.2.3. Fish Grants from N.W.W.A. Stocks

Southern Area

| <u>Date</u> | <u>Association, etc.</u> | <u>Receiving Water</u> | <u>Source</u> | <u>Species</u> | <u>No.</u> | <u>Size</u> |
|-------------|-------------------------------|--------------------------|--------------------|-----------------|------------|-------------|
| 20.6.83 | Cheshire C.C. | Bollin Valley Ponds | Bostock Hall | Mixed coarse | 70 | |
| 7.9.83 | Hyde A.C. | Stonepit Lodge | Hollingworth Resr. | Perch | 750 | |
| 12.9.83 | Rainford Ex-Servicemen's A.C. | Sidings Lane, Rainford | - " - | Perch | 750 | |
| 12.9.83 | Wigan Police A.C. | Runshaw Lodge | - " - | Perch | 500 | |
| 12-13.9.83 | Radcliffe A.C. | Paper Mill Lodge | - " - | Perch | 1,300 | |
| 12.9.83 | Congleton A.C. | Club Pond | - " - | Perch | 400 | |
| 12.9.83 | Littleborough & District A.C. | The Croft, Littleborough | - " - | Perch | 300 | |
| 13.9.83 | Hurst A.C. | Pond at Ashton-u-Lyne | - " - | Perch | 1,000 | |
| 14.9.83 | Oldham A.C. | Huddersfield Canal | - " - | Perch | 1,500 | |
| 14.9.83 | Greenall Whitley A.C. | Ashton Canal | - " - | Perch | 1,000 | |
| 19.9.83 | - " - | Rochdale Canal | - " - | Perch | 1,000 | |
| 23.9.83 | British Salt A.C. | Elworth Flash | Hesketh Park Lake | Roach | 700 | |
| 25.10.83 | Southport A.S. | Sluice, Southport | Pond at Standish | Carp | 300 | 2" |
| 25.10.83 | N.W.W.A. | Farm Pond | - " - | Carp | 100 | 2" |
| 25.10.83 | Red Lion A.S. | Platts Lane | - " - | Carp | 150 | 2" |

3.2.3. (continued)

| <u>Date</u> | <u>Association etc.</u> | <u>Receiving Water</u> | <u>Source</u> | <u>Species</u> | <u>No.</u> | <u>Size</u> |
|-------------|-------------------------|------------------------|------------------|--------------------|------------|-------------|
| 25.10.83 | N.W.W.A. | Private Pond | Pond at Standish | Carp | 100 | 2" |
| 25.10.83 | Community Project | Pond at Darwen | - " - | Carp | 150 | 2" |
| 18.11.83 | Davenham A.C. | R. Dane, Davenham | Bostock Hall | Roach | 3,250 | 4" |
| 16.12.83 | Cairo A.C. | Denshaw Vale | Chorley Resr. | Roach) Perch) | 800 | |
| 16.12.83 | G.P.O. A.C. | Lodge at Shaw | Chorley Resr. | Roach) Perch) | 800 | |

4. FISH MOVEMENT RECORDED AT AUTHORITY FISH COUNTERS - 1983.

4.1 River Lune

| Month | Broadraine | | Forge Weir, Halton | | ** Skerton Weir |
|-------------|--------------------------|--------------------|--------------------|------------|--------------------|
| | Fish under 4 lb. | Fish over 4 lb. | Fish over 4 lb. | | Fish over 4 lb. |
| | | | Fish Pass | Weir Crest | |
| January | (|) | 9 | 3 | () |
| February | (Switched | off) | 12 | 16 | (Switched off) |
| March | (|) | 29 | 347 | () |
| April | 3 | 0 | 23 | 8 | 3 |
| May | 0 | 1 | 53 | 18 | 16 |
| June | 3 | 3 | 52 | 1 | 196 |
| July | Switched (accumulated | off gravel) | 1778 | 2 | 5489 |
| August | 33 | 7 | 2451 | 0 | 1941 |
| September | 542 | 217 | 2804 | 25 | 1008 |
| Oct. - 15th | 195 | 77 | 510 | 502 |) 1 |
| 16-31st | No record | 83* | 130 | 608 | |
| November |) | 74* | 192 | 1042 | 2 |
| December |) - " - | 70* | 317 | 1028 | 0 |
| Total | 776 | 532 | 8360 | 3660 | 8656 |

*captured in Broadraine Trap from 16.10.83

**monitors movement of fish at low flows only; count ∴ incomplete.

4.2 RIVER KENT

Basinghyll Counter, Sedgwick.

| Month | Fish under 4 lbs. | Fish over 4 lbs. |
|-----------|----------------------|------------------|
| January | 10 | 8 |
| February | 26 | 4 |
| March | 17 | 4 |
| April | 59 | 5 |
| May | 13 | 7 |
| June | 115 | 119 |
| July | 494 | 305 |
| August | 112 | 416 |
| September | 242 | 268 |
| October | 139* | 87* |
| November | (|) |
| December | (|) |
| | Counter switched off | |
| Total | 1227 | 1223 |

*Count only to October 9th. During a flood on the night of the 9th/10th the deep water channel sustained damage. On return to low flow towards the end of the month, the top electrode was found to have been torn from its mounting. No figures available after this date.

4.3 RIVER LEVEN

Haverthwaite Counter (Eels dam).

| Month | Fish under 4 lbs. | Fish over 4 lbs. |
|-----------|-------------------|------------------|
| January | (Counter | switched) |
| February | (|) |
| March | (| off) |
| April | 0 | 0 |
| May | 3 | 2 |
| June | 16 | 16 |
| July | 266 | 57 |
| August | 0 | 0 |
| September | 107 | 168 |
| October | 91 | 67 |
| November | 57 | 38 |
| December | 0 | 2 |
| Total | 540 | 350 |

August, November and early December, low water cut off in operation. Counter electronics removed for repair on December 12th and not returned.

4.4 RIVER DUDDON
 Duddon Hall Counter

| Month | Fish under 4 lb. | Fish over 4 lb. |
|-----------|------------------|-----------------|
| January | (|) |
| February | Counter | switched |
| March | (|) |
| April | 1 | 2 |
| May | 0 | 8 |
| June | 207 | 48 |
| July | 56 | 16 |
| August | 17 | 0 |
| September | 53 | 11 |
| October | 18 | 6 |
| November | 25 | 7 |
| December | 10 | 5 |
| Total | 387 | 103 |

4.5 RIVER RIBBLE CATCHMENT

| | 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 | 18 | 4 | - | 4 | 1 |
| May | 56 | 13 | 8 | 25 | 6 |
| June | 179 | 21 | 13 | 87 | 47 |
| July | -* | -* | 5 | 257 | 80 |
| August | 225 | 36 | 0 | 75 | 9 |
| September | 628 | 122 | 61 | 144 | 41 |
| October | 467 | 101 | 93 | 135 | 72 |
| November | 161 | 82 | 31 | 89 | 56 |
| December | 80 | 19 | 7 | 16 | 14 |
| Total | 1814 | 398 | 218 | 832 | 326 |

* No reliable figures available in July owing to interference with the counter by swimmers during hot weather.

4.6 RIVER WYRE

Garstang Counter

| Month | Fish Under 4 lb | Fish Over 4 lb |
|--------------|--------------------|-------------------|
| January | - | - |
| February | - | - |
| March | - | 2 |
| April | 2 | 1 |
| May | 7 | 0 |
| June | 27 | 5 |
| July | 23 | 3 |
| August | 48 | 4 |
| September | 56 | 9 |
| October | 193 | 22 |
| November | 97 | 36 |
| December | 52 | 16 |
| Total | 505 | 98 |

4.7 RIVER DERWENT

Yearl Counter

| Month | Fish Under 4 lb | Fish Over 4 lb |
|-----------|--------------------|-------------------|
| January | 66 | 35 |
| February | 706 | 36 |
| March | 197 | 44 |
| April | 61 | 16 |
| May | 292 | 59 |
| June | 3071 | 364 |
| July | 570 | 149 |
| August | 764 | 678 |
| September | 2290 | 3041 |
| October | 711 | 418 |
| November | 561 | 87 |
| December | 853 | 174 |
| Total | 10142 | 5101 |

5. COUNTS OF SALMON AND SEA TROUT SPAWNING REDDS

5.1 North Cumbria

| <u>River/Area</u> | <u>1981 Salmon</u> | <u>1982 Salmon</u> | <u>1983</u> | |
|-------------------------|--------------------|--------------------|---------------|------------------|
| | | | <u>Salmon</u> | <u>Sea Trout</u> |
| Eden d/s Eden Grove | 0 | No count | - | - |
| Eden d/s Eden Brow | 5 | 20 | - | - |
| Eden d/s Temple Sowerby | 85 | 22 | 150 | - |
| Eden u/s Temple Sowerby | 293 | 107 | 135 | 19 |
| Eamont | 14 | 7 | 30 | - |
| Lowther | 126 | 27 | 47 | - |
| Irthing | 9 | 17 | 14 | 81 |
| Gelt | 33 | 17 | 55 | 57 |
| Border Esk | 129 |) | 22 | - |
| |) | |) | |
| Black & White Esk | 282 |) |) | No counts |
| |) | No counts |) | |
| Liddell | 176 |) |) | possible |
| |) | possible |) | |
| Lyne | 14 |) |) | |

Note

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

5.2 West and South West Cumbria

| <u>River</u> | <u>1981</u> | | <u>1982</u> | | <u>1983</u> | |
|--------------|-------------|-----------|-------------|-----------|-------------------|-----------|
| | Salmon | Sea Trout | Salmon | Sea Trout | Salmon | Sea Trout |
| Ellen | 189 | 199 | 189 | 199 | 83 | 125 |
| Derwent | 250 | 80 | 182 | 65 | 53 | 34 |
| Marron | 35 | 77 | 35 | 77 | 28 | 72 |
| Cocker | 220 | 152 | 220 | 152 | 64 | 44 |
| Greta | - | - | 68 | 15 | 56 | 22 |
| Ehen | 12 | 28 | 11 | 26 | 47 | 95 |
| Calder | 7 | 9 | 8 | 11 | 29 | 25 |
| Irt | 22 | 27 | 18 | 27 | 62 | 58 |
| Bleng | 3 | 7 | 2 | 9 | No count possible | |
| Esk | 2 | 21 | 4 | 19 | 2 | 12 |
| Mite | - | 4 | - | 4 | 2 | 14 |
| Annas | - | - | - | 3 | No count possible | |

Note

High river levels for much of the spawning season resulted in incomplete counts on many rivers in all three years. In 1983 it is thought that many more fish spawned in the Rivers Cocker and Derwent than the bailiffs were able to record.

5.3 South Cumbria and North Lancashire

| <u>River</u> | <u>1981</u> | | <u>1982</u> | | <u>1983</u> | |
|----------------------|---------------|------------------|---------------|------------------|---------------|------------------|
| | <u>Salmon</u> | <u>Sea Trout</u> | <u>Salmon</u> | <u>Sea Trout</u> | <u>Salmon</u> | <u>Sea Trout</u> |
| Duddon | 48 | 147 | 32 | 109 | 40 | 151 |
| Crake | 54 | 146 | 100 | 108 | 86 | 120 |
| Leven & Tribs. | 98 | 216 | 33 | 183 | 73 | 236 |
| Eea | 15 | 304 | - | 147 | 3 | 124 |
| Winster | 7 | 352 | - | 145 | 8 | 141 |
| Gilpin | 24 | 480 | - | 171 | 2 | 299 |
| Kent & Tribs. | 587 | 939 | 647 | 501 | 147 | 972 |
| Bela | 20 | 41 | 34 | 33 | 31 | 25 |
| Keer | - | 361 | 1 | 390 | 9 | 561 |
| Lune | 198 | 21 | 122 | 65 | 90 | 165 |
| Rawthey | 23 | - | 17 | 25 | 5 | 313 |
| Dee | 89 | - | 15 | 110 | 17 | 113 |
| Greta | 94 | - | 64 | 31 | 25 | 75 |
| Wenning | 119 | 587 | 133 | 479 | 60 | 380 |
| Other Lune tribs. | 41 | 468 | 7 | 413 | 7 | 569 |

Note

High river levels for much of the spawning season resulted in incomplete counts on many rivers in all three years, in particular on the Lune and Leven.

5.4 Lancashire

| <u>River</u> | <u>1981</u> | | <u>1982</u> | | <u>1983</u> | |
|--------------|---------------|------------------|---------------|------------------|---------------|------------------|
| | <u>Salmon</u> | <u>Sea Trout</u> | <u>Salmon</u> | <u>Sea Trout</u> | <u>Salmon</u> | <u>Sea Trout</u> |
| Ribble | 210 | 95 | 179 | 94 | 87 | 244 |
| Hodder | 122 | - | 158 | - | 67 | No count |
| Wyre | 105 | - | 42 | 66 | 19 | 44 |

Note

The high river levels prevailing in December, 1983 made counting of salmon redds incomplete, but low flows in November enabled a good count of sea trout redds to be made. In 1981 and 1982 high river levels at times during the autumn made accurate counting of redds impossible.

6. FISH MORTALITIES

6.1 Significant Fish Kills Reported

6.1.1 Northern Area

| <u>Date</u> | <u>Location</u> | <u>No.</u> | <u>Species</u> | <u>Cause</u> |
|-------------|---|---------------------------------|---|---|
| 19/1/83 | River Eea - Muddy Pool | 2,000 | Trout | Suspended Solids |
| 24/5/83 | River Wiza | 5,600 | Brown trout | Discharge of caustic soda |
| 20/6/83 | Crummock Beck (River Waver trib.) | 12 3 300 | Brown trout Sea Trout Stone loach | Silage liquor discharge |
| 20/6/83 | River Wiza | 3,400 | Brown trout | Discharge of latex |
| 23/6/83 | Newbiggin Beck (River Eden trib.) | 400 | Brown trout | Farm slurry (Bovine manure) |
| 5/7/83 | River Lickle | 37 | Sea trout | De-oxygenation suspected |
| 11/7/83 | Tom Rudd Beck (River Derwent trib.) | 1,950 | Sea trout | Farm slurry (Bovine manure) |
| 19/7/83 | River Bela | 3,812 2 350 | Brown trout Pike Eels | Discharge of ammonia |
| 23/7/83 | Row Beck, Dereham (River Eden trib.) | 300 | Sea trout | Farm effluent |
| 26/7/83 | River Liddel, Hermitage Water | 10,000 | { Salmon { Sea trout { Brown trout | Damage to fish gills by silt following storms |
| 3/8/83 | Cairn Beck (River Eden trib.) | 70 | Brown trout | Sheep dip |
| 12/8/83 | River Kent | 106 166 5 11 2 1 | Sea trout Brown trout Salmon Flounder Minnow Eel | Cyanide poisoning |
| 17/8/83 | Melmerby Beck (R. Eden trib.) | 1,620 | { Brown trout { Salmon | Sheep dip |
| 21/8/83 | Dragley Beck (Pennington) | 100 | Brown trout | Sheep dip suspected |
| 21/8/83 | River Bela | 35 | Sea trout | Not determined |
| 25/8/83 | River Eea | 68 | Trout | Not determined |

6.1.1 (Continued)

| <u>Date</u> | <u>Location</u> | <u>No.</u> | <u>Species</u> | <u>Cause</u> |
|-------------|-----------------------------|------------|-------------------------|--|
| 29/8/83 | River Marron, Asby | 600 | (Salmon (Sea trout | Cyanide poisoning |
| 4/9/83 | Kirkby Pool | 10 1 | Sea trout Salmon | De-oxygenation suspected |
| 17/9/83 | River Duddon | 2 1 | Sea trout Salmon | Acid flush suspected |
| 18/9/83 | River Esk (Cumbria) | 32 3 | Sea Trout Salmon | Low pH following heavy rain |
| 4/10/83 | River Eamont - Fish Farm | 10,000 + | Rainbow trout | Asphyxia due to reduced water flows |

6.1.2 Southern Area

| <u>Date</u> | <u>Location</u> | <u>No.</u> | <u>Species</u> | <u>Cause</u> |
|-------------|--------------------------------|---|---|---|
| 15/2/83 | Mearley Brook Henthorne | 20 | Brown trout | Sewage |
| 25/2/83 | Madeley Manor Pool | 10,600 50,000 2,000 100 300 | Roach Perch Bream Gudgeon Minor species | Toxic matter polluting watercourse following a motorway accident |
| 9/3/83 | Tems Beck, Giggleswick | 60 | Brown trout | Discharge of slurry |
| 18/3/83 | Stock Beck | 136 227 1,000 | Juvenile salmon Brown trout Minor species | Accidental spillage of cyanide |
| 18/3/83 | Heatley Ponds, Nr. Lymm | 500 100 5 | Roach Crucian carp Perch | Toxic material washed into watercourse following a fire at an Agricultural Suppliers. |
| 15/4/83 | West Clough, Lowcocks | 30 | Brown trout | Not determined, but chlorine suspected. |
| 8/4/83 | Trawden Beck | 416 52 | Brown trout Minor species | Not determined |
| 15/5/83 | River Darwen | 20 | Brown trout | Discharge from chemical works |
| 5/5/83 | Rochdale Canal Stake Hill | 400 | Roach | Post-stocking mortality |
| 17/6/83 | Lancaster Canal, Bilsborrow | 136 350 | Roach Fry | Low dissolved oxygen caused by silage discharge |

6.1.2 (Continued)

| <u>Date</u> | <u>Location</u> | <u>No.</u> | <u>Species</u> | <u>Cause</u> |
|-----------------------|--|-------------------|---------------------------------|--|
| 8/6/83 | Kirklees Brook | 275 | Brown trout | Toxic discharge |
| 8/6/83 | River Dean, Bollington | 300 | Brown trout | Toxic discharge |
| 10/6/83 | Colne Water, Laneshaw Bridge | 75 | Brown trout | Electrofishing |
| 17/6/83 to 24/6/83 | Denshaw Vale Mill Dam | 500 50 | Roach Bream | High water temperature and low dissolved oxygen |
| 20/6/83 | Shropshire Union Canal, Church Minshull | 200 192 400 | Gudgeon Roach Stickleback | Not determined |
| 22/6/83 | Lancaster Canal, Salwick | 150 | Perch and Bream | Not determined |
| 26/6/83 | Shropshire Union Canal, Bunbury | 620 2 2 | Roach Gudgeon Bream | Not determined |
| 28/6/83 | Moss Lodges, Skelmersdale | 160 110 | Roach Perch | Low dissolved oxygen and high temperature |
| 28/6/83 | Castle Pits, Congleton | 115 62 | Roach Perch | Low dissolved oxygen |
| 30/6/83 | Wickenhall Trout Farm | 1,000 | Rainbow trout | Unsatisfactory feeding regime |
| 14/7/83 | Birkenhead Lower Park Lake | 2,900 | Mixed coarse fish | Application of aquatic herbicide at wrong time of year. |
| 15/7/83 | Pond at Bury | 500 | Perch | Low dissolved oxygen |
| 18/7/83 | Pond at Swinton | 180 20 3 | Roach Perch Carp | Low dissolved oxygen |
| 19/7/83 | Farm pond at Dutton | 112 | Mixed coarse | Excessive weed growth and low dissolved oxygen |
| 21/7/83 | River Tame, Saddleworth | 542 25 | Brown trout Roach | Discharge of toxic waste |
| 26/7/83 | Rochdale Canal, Smithy Bridge | 100 | Roach | Not determined |
| 27/7/83 | Ludworth Reservoir, Glossop | 400 | Mixed coarse | Low dissolved oxygen |
| 30/7/83 | East Lancs. Paper Mill Lodge | 550 | Roach | High water temperature |

6.1.2 (Continued)

| <u>Date</u> | <u>Location</u> | <u>No.</u> | <u>Species</u> | <u>Cause</u> |
|-------------|---|--|---|---|
| 1/8/83 | Walverden Water | 50 | Brown trout | Not determined |
| 5/8/83 | Shropshire Union Canal, Bunbury | 60 350 50 1000 | Bream Roach Gudgeon Fry | Oxygen depletion following pollution |
| 11/8/83 | River Dane, Davenham | 2400 202 600 1 5 Numerous Numerous | Roach Chub Dace Bream Brown trout Gudgeon Minor sp. | Slug of pollutant, believed to be farm effluent |
| 13/8/83 | Callands Brook, Warrington | 1000 | Roach fry | Spillage of diesel oil |
| 19/8/83 | Three Pools Waterway, Southport | 15000 500 50 350 35 | Roach Bream Tench Pike Eels | Storm sewer overflow |
| 20/8/83 | Barnett Brook and River Weaver, Audlem | 7 19 22 40 4 1 2 2 2180 | Brown trout Roach Perch Dace Club Bream Pike Eels Minor sp. | Spillage of slurry from farm lagoon |
| 31/8/83 | Trawden Beck, Colne | 50 | Brown trout | Storm sewer overflow |
| 7/9/83 | Foulridge Stream | 202 | Pike | Low dissolved oxygen |
| 8/9/83 | Astley Hall Pool, Chorley | 200 | Roach | Dissolved oxygen depletion |
| 26/9/83 | Rochdale Canal | 150 | Perch | Post stocking mortality |
| 2/10/83 | Sowker Brook | 150 | Brown trout | High suspended solids resulting from pond drainage upstream |
| 16/11/83 | River Darwen, Blackburn | 1 1000 | Brown trout Minnows | Discharge from paper mill |
| 18/11/83 | Losterdale Beck | ? | Salmonid fry | Suspended solids |

6.2 Total Numbers of Diseased Fish Removed During 1983

| <u>River</u> | <u>Adult Salmon</u> | | <u>Parr Smolts</u> | | <u>Sea Trout</u> | | <u>Brown</u> | <u>Other</u> |
|--------------|---------------------|----------|--------------------|---|------------------|----------|--------------|----------------|
| | <u>M</u> | <u>F</u> | | | <u>M</u> | <u>F</u> | <u>Trout</u> | <u>Species</u> |
| Border Esk | - | - | - | - | - | - | 4 | - |
| Eden | - | - | - | - | - | - | - | 2 |
| Lune | 22 | 15 | - | - | 10 | 17 | 3 | - |
| Duddon | 1 | 1 | - | - | - | 2 | - | - |
| Crake | - | - | - | - | - | - | - | - |
| Leven | 43 | 53 | - | - | - | - | 1 | 20 |
| Kent | 7 | 5 | - | - | - | 10 | 3 | - |

7. DETAILS OF FISHERIES PROSECUTIONS

1983/4

| Nature of Offence | Section of 1975 Act | Total Charges | Dismissed | Withdrawn | Conditional Discharge | Total Fines £ | Costs £ | Remarks |
|---|---------------------|---------------|-----------|-----------|-----------------------|------------------|------------|---------|
| Use of illegal instrument (stones) | 1 | 2 | | 1 | | | | |
| Use of illegal instrument (gaff) | 1 | 2 | | | 1 | 40 | 30 | |
| Use of illegal instrument (snare) | 1 | 1 | | | | 35 | 10 | |
| Use of illegal instrument (spear) | 1 | 2 | | | | 60 | | |
| Use of illegal instrument (snatch) | 1 | 19 | | | | 880 | 100 | |
| Possession of illegal net | 1 | 9 | | | | 940 | 150 | |
| Taking unclean fish | 2 | 3 | | | | 70 | | |
| Use of an unauthorised fixed engine | 6 | 1 | | | | 50 | 57 | |
| Fishing for or taking freshwater fish during close season | 19 | 20 | | | | 255 | 112 | |
| Fishing for or taking salmon during close season | 19 | 1 | | | | 10 | 10 | |
| Fishing for or taking migratory trout during close season | 19 | 1 | | | | 20 | 15 | |

DETAILS OF FISHERIES PROSECUTIONS

1983/84

| Nature of Offence | Section of 1975 Act | Total Charges | Dismissed | Withdrawn | Conditional Discharge | Total Fines £ | Costs £ | Remarks |
|---|---------------------|---------------|-----------|-----------|-----------------------|---------------|---------|---------|
| Fishing for or taking non-migratory trout during close season | 19 | 26 | | | | 725 | 257 | |
| Fishing with unlicensed instrument (net) | 27 | 57 | | | | 3,370 | 552 | |
| Fishing with unlicensed instrument (hands) | 27 | 3 | | | | 125 | 25 | |
| Fishing with unlicensed rod and line | 27 | 259 | | 25 | | 3,178 | 2595 | |
| Obstruction of Bailiff | 31 | 7 | | | | 135 | 35 | |
| Failing to state correctly name and address | 35 | 31 | | | | 780 | 221 | |
| Theft of fish | Theft Act 1968 | 50 | | | | 1,295 | 383 | |

DETAILS OF FISHERIES PROSECUTIONS

1983/4

| Nature of Offence | Byelaw | Total Charges | Dismissed | Withdrawn | Conditional Discharge | Total Fines £ | Costs £ | Remarks |
|---|---------|---------------|-----------|-----------|-----------------------|------------------|------------|---------|
| Taking salmon or trout during weekly close time | 6 | 2 | 2 | | | | | |
| Use of a net in a prohibited area | 7 | 2 | 2 | | | | | |
| Removal of Fish | 13 | 12 | | 1 | | 190 | 55 | |
| Using maggot as hook bait | 14 (i) | 70 | | | | 908 | 376 | |
| Using bait not on or attached to a hook | 14 (ii) | 25 | | | | 389 | 103 | |
| Taking undersize fish | 15 | 3 | | | | 39 | | |
| Illegal use of Keep Nets | 16 | 15 | | | | 319 | 108 | |
| Total | | 623 | 4 | 27 | 2 | 13,777 | 519 | |
| | | | | | | | | |

8. Numbers of rod and commercial fishing licences issued 1983

8.1 Rod and Line

| <u>Whole Area</u> | <u>No.</u> | <u>Duty</u> £ | <u>Amount</u> £ |
|---|----------------|------------------|--------------------|
| Salmon season | 2,606 | 27.00 | 70,362.00 |
| Salmon season - reduced duty | 914 | 13.50 | 12,339.00 |
| Salmon - 7 day | 3,520 1,936 | 4.50 | 8,712.00 |
| Migratory trout - season | 2,551 | 9.00 | 22,959.00 |
| Migratory trout - reduced duty | 549 | 4.50 | 2,470.50 |
| Migratory trout - 7 day | 1,074 | 1.50 | 1,611.00 |
| Non-Migratory trout - season | 27,137 | 4.00 | 108,548.00 |
| Non-Migratory trout - reduced duty | 5,799 | 2.00 | 11,598.00 |
| Non-Migratory trout - 7 day | 11,359 | 1.00 | 11,359.00 |
| Freshwater fish and eels - season | 29,478 | 3.20 | 94,329.60 |
| Freshwater fish and eels - reduced duty | 7,519 | 1.60 | 12,030.40 |
| Freshwater fish and eels - 7 day | 3,541 | 1.00 | 3,541.00 |
| TOTAL | 94,463 | | 359,859.50 |

8.2 Instruments other than Rod and Line

| <u>North Cumbria</u> | <u>No.</u> | <u>Duty</u> £ | <u>Amount</u> £ |
|---|------------|------------------|--------------------|
| Whole Area - Haaf Nets | 195 | 27.50 | 5,362.50 |
| R. Ellen - Haaf Nets | 1 | 27.50 | 27.50 |
| R. Eden District - Draft Nets | 2 | 330.00 | 660.00 |
| " " Coops | 2 | 128.70 | 257.40 |
| R. Derwent District - Coop | 1 | 286.00 | 286.00 |
| South West Cumbria - Garth | 1 | 143.00 | 143.00 |
| Public waters within jurisdiction - Drift Nets | 4 | 137.50 | 550.00 |
| | <hr/> | | <hr/> |
| TOTALS | 206 | | 7,286.40 |
| | <hr/> | | <hr/> |

Lancashire/South Cumbria

| | | | |
|-------------------------------------|-------|--------|----------|
| Ribble Estuary - Drift or Hang Nets | 6 | 88.00 | 528.00 |
| Lune Estuary - Drift or Hang Nets | 10 | 146.30 | 1,463.00 |
| - Draw or Seine Nets | 1 | 127.60 | 127.60 |
| - Heave or Haaf Nets | 26 | 56.10 | 1,458.60 |
| Duddon Estuary - Draw or Seine Nets | 3 | 121.00 | 363.00 |
| Kent Estuary - Lave Nets | 8 | 66.00 | 528.00 |
| Leven Estuary - Lave Nets | 6 | 55.00 | 330.00 |
| | <hr/> | | <hr/> |
| TOTALS | 60 | | 4,798.20 |
| | <hr/> | | <hr/> |

Eel Fishing Licences - Whole Area

| | <u>No. Licences</u> | <u>No. of Nets</u> <u>or Traps</u> | <u>Amount</u> |
|-------------------------|---------------------|---------------------------------------|---------------|
| Fyke Nets | 18 | 158 | 102.70 |
| Traps/putcheons/baskets | 4 | 100 | 26.40 |
| | <hr/> | | <hr/> |
| TOTALS | 22 | | 129.10 |
| | <hr/> | | <hr/> |

8.3 Numbers of Persons engaged in Commercial/Salmon and Trout Fishing

Type of Net etc.

| | <u>Heave</u> | <u>Drift</u> | <u>Draw</u> | <u>Lave</u> | <u>Fixed Engines</u> |
|-------------------|--------------|--------------|-------------|-------------|----------------------|
| <u>Cumbria</u> | | | | | |
| Licence Holders | 196 | 4 | 2 | - | 4 |
| Endorsees | - | 7 | 4 | - | 12 |
| <u>Lancashire</u> | | | | | |
| Licence Holders | 26 | 16 | 4 | 14 | - |
| Endorsees | - | 29 | 16 | - | - |

8.4 General Licences

Number issued = 7 total value = £1,736

8.5 Temporary Licences (Rod and Line, Freshwater Fish)

Number issued = 151 total value = £864