

## RUNNING TOTALS FOR THE ETTRICK FISH COUNTER, PHILIPHAUGH

### NET UPSTREAM FOR FISH OVER 40cms

*NOTE : These are unprocessed figures and will change slightly on complete analysis*

YEAR	1998	1999	2000	2001	2002	2003	2004	2005	2006	Average 1998-2005*
January	0	0	23	0	12	-1	0	0	43	4
February	0	-1	2	0	0	0	0	0	3	0
March	4	0	6	0	10	0	7	14	0	5
April	21	59	69	11	35	34	20	17	na	33
May	63	186	74	24	438	304	96	202 <sup>6</sup>	236	155
June	360	224	401	11	335	NA	105	163 <sup>6</sup>	127	228
July	173	47	60	75	115	155	170	31	170	96
August	426	20	557	425	432	71	670	124	35	341
September	1192	2401	2576	1045	940	94	1819	1561	2629	1454
October	2971	3357	2093	4039	1674	1858	2080	4242	2926	2789
November	1114	1310	579	531	1908	3201	412	567	845	1203
<u>December</u>	<u>55</u>	<u>50</u>	<u>17</u>	<u>86</u>	<u>44</u>	<u>31</u>	<u>11</u>	<u>415</u>		89
YEAR TOT	6379	7653	6457	6247	5943	(5747)	5390	7337	<b>7014</b>	6487
Year Salmon	3385	4701	4379	3801	4280	(3616)	3602	4371		4025
<i>Totals to end.</i>										
<i>June</i>	448	468	575	46	830	na	398	396 <sup>6</sup>	na	452
<i>July</i>	621	515	635	121	945		568	427		547
<i>August</i>	1047	535	1192	546	1377		1238	551		927
<i>September</i>	2239	2936	3768	1591	2317		2887	2112		2550
<i>October</i>	5210	6293	5861	5630	3991		4967	6354		5472
<i>November</i>	6324	7603	6440	6161	5899		5379	6921		6390

THE COUNTER DATA IS ALSO NOW AVAILABLE ON THE TWEED FOUNDATION'S WEBSITE AT : [www.tweedfoundation.org.uk/counter](http://www.tweedfoundation.org.uk/counter)

**For notes to each year's counts, see next page**

- 1991 The counter was out of operation for the second half of July and the first half of August but the water was then very low
- 2001 The Spring of 2001 was cold and then very dry, so there were no spates in the first half of the year to bring the fish up
- 2003\* An electrical storm on the 30<sup>th</sup> of May put the counter out of action. There was a substantial run of fish on the 31<sup>st</sup> which was uncounted. The monthly total for May is correct to the 6<sup>th</sup>, then is an estimate from then to the 29<sup>th</sup> when it was last manually read. The estimate given for May 2003 does not include any element for the 29<sup>th</sup> to the 31<sup>st</sup> of May . The counter was re-installed on the 4<sup>th</sup> July, so the July total is for only 27 days. Data from 2003 is not used to calculate the monthly averages for May, June and July or for the annual figures.
- 2004 A log in the scanner in June could not be removed till after the spate that had brought it down had passed. After the counter was switched off on the 19<sup>th</sup> August to protect it from an electrical storm, it failed to re-start properly on the 20<sup>th</sup> and was not corrected till the 23<sup>rd</sup>. As the counts in the three days before were 41,41 & 22 and the counts in the three days afterwards were 37,42 & 30, reasonably consistent totals, it seems justifiable to average these for the missing two days' counts, making 35 for each day to add to a total of 600 exactly for the other days of the month
- 2005 The counter switched itself off on the 26<sup>th</sup> May and was not restarted till the 2<sup>nd</sup> June. The counts for the five full days before the switch off were 20,12,21,7 & 11 respectively (daily average = 14), and 3, 17, 20,11 & 23 (daily average 15). Taking the average for a missing day as 14 therefore, 84 fish have been added to the May total, and 28 to the June (=112 extra for the total to the end of June)
- 2006 The counter was out of operation from April to the 16<sup>th</sup> May, and for 24hrs on the 3<sup>rd</sup> of July. A software problem became apparent in late September – although all fish were being “seen” by the computer, many were then rejected. The recorded total for September was 2501, revised total using data from visual counts for the days on which these were made was 2629. For other days in the month, no revision possible so the monthly total is very much a minimum – there were 2366 “rejects” recorded for this month. The October count is complete from the 10<sup>th</sup> onwards, when the software was adjusted so that video clips were kept for each rejected event as well as for each event recorded as a fish going up. The counter recorded 1907 fish directly, but of the 2814 rejected events, 787 (28%) turned out from the video clips to have been fish as well, making 2694 fish definitely recorded for the month. In the ten days before the software adjustment was made, however, there were 830 rejected events and if the same percentage (28%) is applied to these, then there were another 232 fish for October. However, it is clear from the data that the counter was being very variable in what it was doing – it had days in which it worked perfectly and others in which it rejected just about every fish. This lack of consistency means that this total for the first 10 days can only be taken as an estimate. However, there is no doubt that fish were being mis-identified in the first 10 days, so it is reasonable to add in this 232 to make an estimated total for the month of 2926

**EFFICIENCIES :** The counter is set count fish down to a minimum of 40cms in length. Some fish smaller than that do get counted, but with a low efficiency. The efficiency is checked from time to time by making visual counts of the fish passing through the scanner and checking that all fish that do so are actually being registered.

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