

Salmon in Haffjardara 2001

Introduction

The salmon parr population in Haffjardara was investigated July 19 and September 1-2, 2001. The river was fished with electricity at four sites in June and three sites in September. The fish were aged and density of the various year classes estimated.

Results

Table 1 shows the results from the electrofishing. Figure 1 and 2 show the length distribution of parr in the upper part, sites 1 and 2, and lower part, sites 4 and 7, of Haffjardara in July. The fry emerge earlier in upper part where large numbers of 0+ parr were found. Densities of parr were high, especially in the upper part. This is partly explained by exceptionally low water level during the investigation leading to concentration of parr.

Table 1. Mean length at age, and number of salmon parr caught at various sites in Haffjardara July 19 and September 1, 2001. Number of fish in brackets.

Site No	Location	Date	Area (m ²)	0+	1+	2+	3+	Density Fish/100 m ²
1	Upper Luncheon	19/7	30	2.9 (15)	5.1 (11)	7.8 (4)		100
2	Below Long Pool	19/7	30	3.0 (4)	5.3 (19)	7.4 (3)	9.5 (2)	93
4	Below Falls Pool	19/7	40		5.5 (8)	7.9 (7)	9.5 (2)	42
7	Below Sheep Pool	19/7	50		5.8 (11)	9.4 (7)		36
1a	Upper Luncheon	1/9	40	4.0 (17)	6.8 (19)	10.0 (8)		110
4a	Below Falls Pool	1/9	30	3.4 (12)	5.7 (9)	8.9 (2)		76
7a	Below Sheep Pool	1/9	60	4.6 (2)	6.4 (9)	9.6 (9)		33
Total:			280	(50)	(86)	(40)	(4)	64

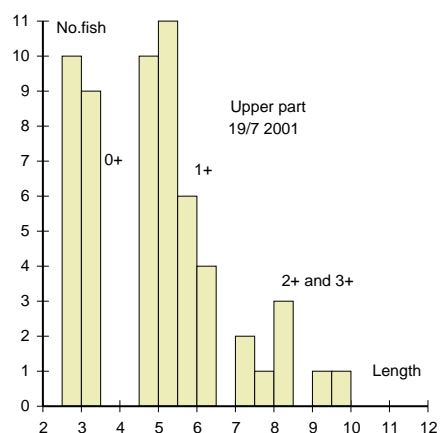


Fig. 1. Length distribution of parr in the upper part of Haffjardara in July 2001.

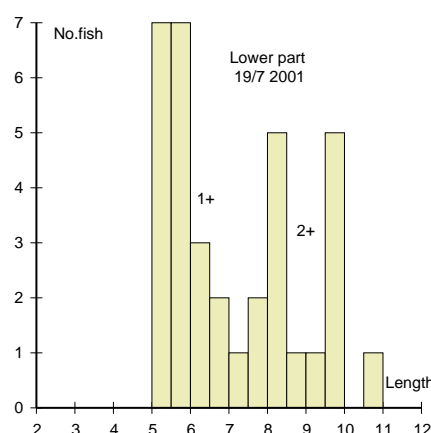


Fig. 2. Length distribution of parr in the lower part of Haffjardara in September 2001.

The salmon catch in 2001

The total catch in 2001 was 532 fish, well below the 19 year average. The catch of grilse and salmon from 1983 is shown in table 2.

Out of the 532 fish caught in Haffjardara, 246 (46%) were released. 14 fish were tagged year 2001 and 4 were recaptured in the river 14-53 days after tagging.

Table 2. Catch of grilse (I SW) and salmon (II SW) in Haffjardara 1983-2000.

Year	I SW	II SW	Total
83	414	211	625
84	202	351	553
85	364	215	579
86	978	161	1139
87	309	226	535
88	744	130	874
89	533	130	663
90	475	148	623
91	594	126	720
92	703	122	825
93	550	83	633
94	567	103	670
95	577	155	732
96	533	69	602
97	490	70	560
98	678	74	752
99	668	122	790
00	612	60	672
01	465	67	532
Avg:	550	138	688

Table 3. Mean lengths at age, and number of salmon parr caught in the upper part of Haffjardara 1994-2001. Samples were taken below Long Pool, except in year 2001 when samples are from Upper Luncheon. Number of fish in brackets. Numbers are high in year 2001 in very low water resulting in high concentration of parr.

Area (m ²)	Age: 0+	1+	2+	3+	Density /100 m ²	Year	Date
70	3.7 (7)	6.1 (5)	7.8 (4)	9.7 (4)	29	1994	12/9
50	3.4 (6)	6.3 (7)	8.5 (2)	10.2 (2)	38	1995	10/9
50	3.3 (12)	5.9 (6)	7.4 (5)	9.6 (3)	52	1996	23/7
50	3.4 (15)	5.5 (11)	7.9 (6)	9.4 (1)	66	1997	16/8
50	3.8 (5)	6.0 (3)	8.2 (10)	10.4 (2)	46	1998	22/8
30	3.6 (1)	6.5 (8)	9.0 (4)	12.3 (2)	45	1999	16/9
60	4.0 (9)	6.8 (5)	8.7 (6)		33	2000	25/8
40	4.0 (17)	6.8 (19)	10.0 (8)		110	2001	1/9

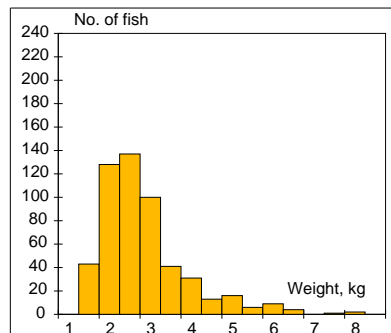


Fig. 3. Weight distribution of the salmon catch in Haffjardara in 2001. Weight is in kilos.

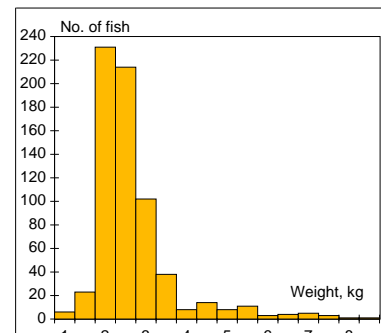


Fig. 4. Weight distribution of the salmon catch in Haffjardara in 2000. Weight is in kilos.

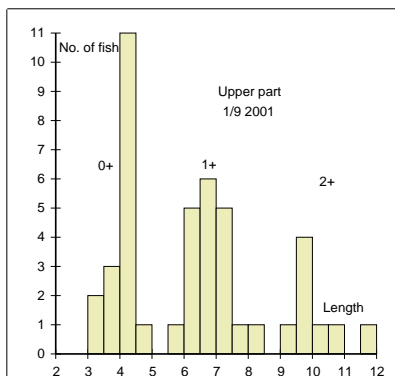


Fig. 5. Length distribution of parr in the upper part of Haffjardara in September.

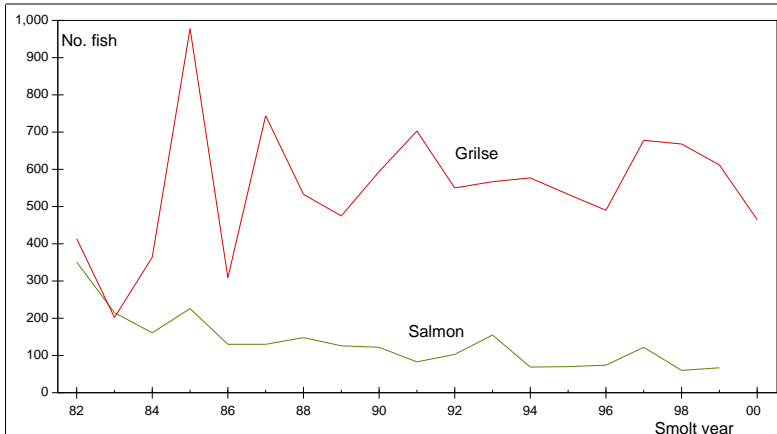


Fig. 6. Catch of grilse and salmon from the 1982-1999 smolt year classes.