

Salmon in Haffjardara 2007

Introduction

The salmon parr population in Haffjardara was investigated August 16 and 17, 2007. The river was fished with electricity at 5 sites. The parr were aged and density of the various year classes estimated. During the test fishing, water level was extremely low and the conditions for electrofishing were good.

Results

Table 1 shows the results from the parr survey. Fry (age 0+) was found at most sites in high numbers. One and two year old parr (1+ and 2+) were also found in high numbers, their growth was slightly below average, and the parr was in average condition. Densities were very high, which can be explained by the low water at the time of sampling. Some places, only 50-60% of the riverbed was covered with water and the current was slow.

				Age classes									
Site No.	Location	Date	Areal	0+		1+		2+		3+		Sum	Density
			m ₂	no	ml	no	ml	no	ml	no	ml		Fish/100 m ₂
1	Below Long Pool	17/8	15	7	3.4	6	5.9	4	7.5	5	8.6	22	147
2	Below Falls Pool	16/8	50	0		15	5.9	8	7.8	1	10.4	24	48
3	Home Pool	16/8	50	40	3.4	11	5.8	2	9.4			53	106
4	Below Sheep Pool	16/8	60	8	4.2	14	6.2	2	9	1	10.5	25	42
5	Above Sea Pool	16/8	40	12	3.9	11	6.4	1	11			24	60
Total:			215	67		57		17		7	7	148	69

Table 1. Mean length at age (ml), and number of salmon parr (no) caught at various sites in Haffjardara August 16 and 17, 2007.

The salmon catch in 2007

The total catch in 2007 was 1079 fish. The catch of grilse and salmon since 1984 is shown in table 2. Out of the 1079 fish caught in Haffjardara, 767 (71%) were released. The catch of grilse (I SW fish) was 899 fish and the catch of salmon (II SW fish) was 141 fish, 13% of the total catch (fig 3).

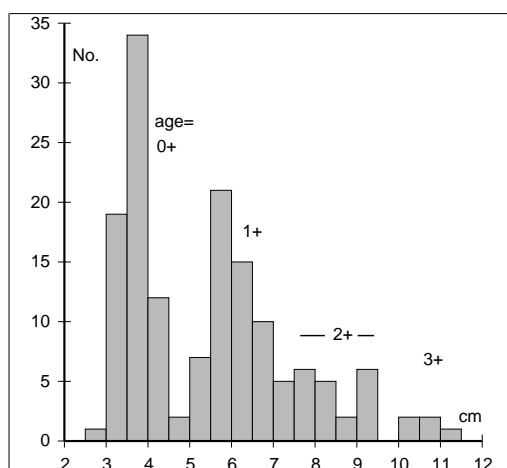


Fig. 1. Length distribution of salmon parr caught in Haffjardara 2007.

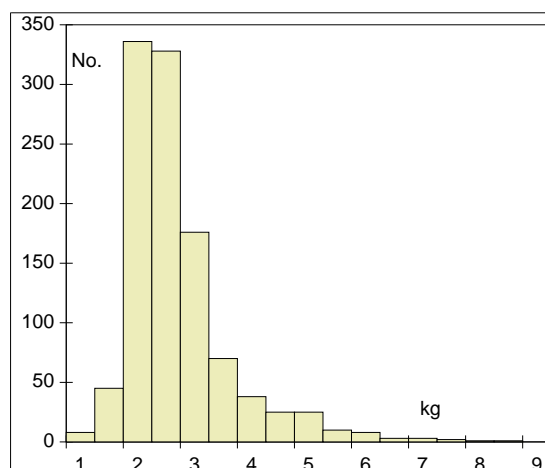


Fig. 2. Weight distribution of the salmon catch in Haffjardara in 2007.

Year	I SW	II SW	Total	Rel.	% Rel.
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	4	1%
95	577	155	732	0	
96	533	69	602	24	4%
97	490	70	560	0	
98	678	74	752	193	26%
99	668	122	790	302	38%
00	612	60	672	278	41%
01	465	67	532	246	46%
02	847	96	943	493	52%
03	912	95	1007	525	52%
04	954	179	1133	616	55%
05	1075	215	1290	929	72%
06	874	203	1077	749	70%
07	899	141	1079	767	71%
Avg:	639	139	778		

Table 2. Catch of grilse (I SW), salmon (II SW), number and percentage of released fish in Haffjardara 1984-2007.

Year	No. tagged	No. recaptured	% rec.
1999	45	1	2
2000	0	0	0
2001	14	4	29
2002	91	17	19
2003	73	22	30
2004	96	18	19
2005	131	18	14
2006	76	13	17
2007	68	5	7
Total:	594	98	16.5

Table 3. Tagging results 1999-2007. Fish, tagged and recovered within the same fishing season.

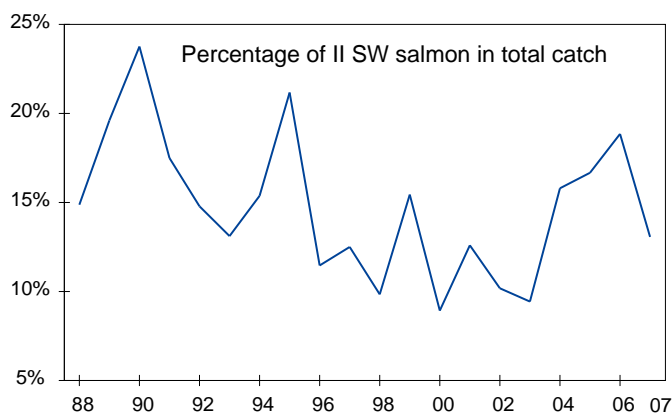


Fig. 3. Percentage of salmon (II SW) in the total catch in Haffjardara 1988- 2007.

Tagging Experiment 2006

From 3/7 to 5/8, 68 fish were tagged and released.

Five (7.4%) were recaptured in the river 10-54 days after tagging. Results are shown in table 4.

One tag from 2005 was recovered 2007. It is very rare for a salmon to survive two winters after spawning.

Four fish, tagged in 2007, were recaptured above the tagging site, one below and one on the tagging site.

Tagging from 1999

Since 1999, 594 fish have been tagged in Haffjardara. 98 (16.5 %) have been recaptured.

Results of the tagging in 1999-2007 are shown in table 3.

Tagged			Recaptured			
Tag No.	Date	Pool No.	Date	Pool	Timeout Days	Up/Down N.of pools
85938	20.7.2007	7	12.9.2007	43	54	36
84143	5.8.2007	2	8.9.2007	2	34	0
85863	11.8.2007	7	6.9.2007	33	26	26
85851	12.8.2007	10	25.8.2007	2	13	-8
85879	12.7.2007	2	22.7.2007	30	10	28
76764	3.7.2005	23	21.7.2007	10	* 2 years	

Table 4. Tagged and recaptured salmon in Haffjardara 2007. 'Time out' is the time between tagging and recapture. 'Up/down' is the movement of the fish, how many pools the fish moved up or down (minus sign).

* fish no. 76764 was recaptured two years after tagging.