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Investigation of informations extracted from Data collected at the Fish-reception operated by the Egilsstaðir Co-operative for Trout and Arctic Char during the summe 1983.

26.01.1983. V*A*UST/8402.

Eintak bókasafns VMST-A /8402



VEIÐIMÁLASTOFNUN Vistfræðideild

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INTRODUCTION.

This report is an english summary of a more detailed icelandic version (A.Helgason, 1983), and presents statistics on Trout and Arctic Char delivered to the Fish-reception operated by the Co-operative at Egilsstaðir in the eastern part of Iceland. The operation of a collecting point for Trout and Arctic char in this area is connected to the SSA-salmonid project which commenced in 1983 and has the aim to evaluate the potential of commercial exploitation of Trout and Arctic char in lakes in the area. The reason for the project is the abundance of good Trout and Arctic char lakes, and the fact, that the exploitation of the fish stocks are at present very little, and has decreased greatly during the last decades.

The report is an attempt to evaluate the data collected at the Fish-reception from biological point of view i.e. wether it is possible to use these information to base management decisions on the fisheries in different lakes.

RESULTS.

At the Fish-reception the following details were collected:

- 1. Date of delivery.
- 2. Lake which the fish originated from.
- 3. Name of Fisherman.
- 4. Kilos of gutted fish delivered, but no distinction made betwee Trout and Arctic Char.
- 5. Kilos of delivered fish in each of 4 different classes (Table 1).

Table 1. Four price groups based on weight of gutted fish were used at the Egilsstaðir Fish-reception.

I	class	750	gra	mmes	or	more	65	IKR/Kilo
II		350	*****	749	gra	ammes	55	11
III	71	180	-	349	gra	ammes	30	11
IV	11	179	0 - 749 0 - 349 9 grammes		or	less	15	TT .

The total quantity of Trout and Arctic Char delivered during the 91 day period(16th June - 15th September) is 5155 Kilos which amounts to approx. 6 metric tons gross weight. (Table 2).

Table 2. Delivered fish at the Egilstadir Fish-reception during the period between 16.06.83 - 15.09.83.

Month	No. of days	Kilos del.	Number of lakes	Kg/day
June	14	1164	10	83
July	31	2907	12	93
August	31	751	3	24
September	15	333	5	22
Totals Means	91 -	5155 -		56.6

The percentage of the total quantity contributed by the various lakes ranged from 0.2 % to 28.6% reflecting both the size of the lakes which to a certain extent affects the possible yield, but even more the fishing effort made in different lakes.

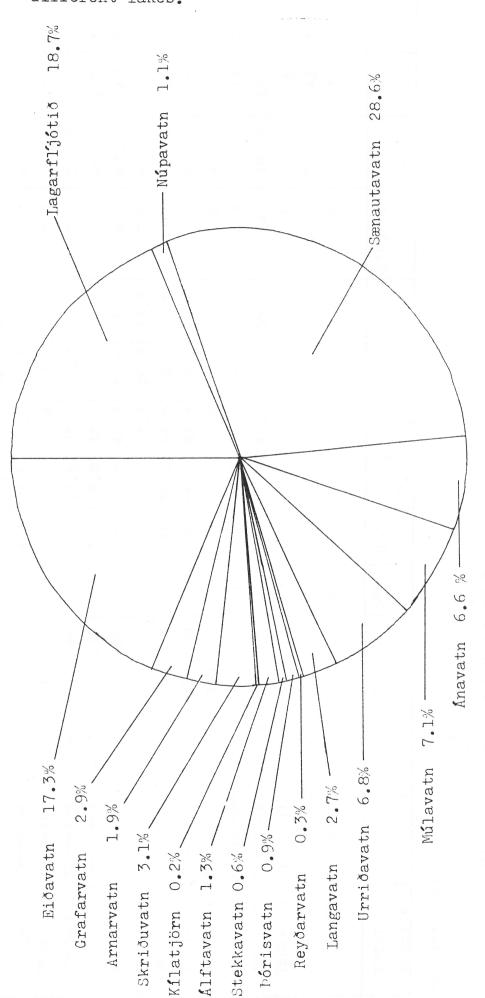
Fig.1 shows in a Pie-chart how the fish quantity delivered to the Fish reception is distributed between different lakes.

The maximum quantity from a single lake was 1474 kilos, but the minimum was 8 kilos. (Table 3)

Mean price per kilo paid to the fisherman was 46.20 IKR, but ranging from 28.7 to 63.0 IKR/kg which reflects the different mean wight of individual fish in the catches from differnt lakes. On the average 8.5% was class I fish, 53.1% class II fish, and 36.4% III and IV class fish. (Table 3). Individual lakes ranged from 100.00% of I and II class fish to 88.00% III and IV class fish (Table 3).

The fishing intensity as measured by the information in the data from the Fish-reception ranges from 0.5 kg/hectare to 6.4 kg/hectare.

Figure 1. Percentage of the total quantity of Trout and Arctic Char, delivered to the Egilsstaðir Fish-reception, yielded by different lakes.



				_																
	Kg/ha.	· ·		6.4	1.5	٥.	3.2	3.5	ç.,	6.0	6.	٥.	0.5	1.3	7.1	3.6	5.2		ı	dense de la constant
	На.	٥.	٥.	230	490	٥.	110	40	٥.	48	٥.	ç.	15	125	14	42	170		1	000
	IKR/Kg	52,20	28.70	43.60	50.80	52.60	46.90	47.90	52.00	63.00	70.70	46.90	51.70	49.30	51,10	50.40	36.50	Anti-aggeoeggilooggy gran value gestelle benedet		46.20
Value	Total IKR	50.303	1.665	64.222	17,260	19,305	16,497	6,610	778	2,773	2,120	3,188	413	7.840	5.058	7.557	32,505		238.094	enellistellinga prikkasili-vusalibrejitis urusylis siinjakspanas
Ø	ΛI	1.1	41.4	6.3	2.0	1.6	5.4	8.7	33.3	0.0	0.0	1.4	0.0	15.1	3.0	2.7	16.5			6.9
clas	III	19.5	46.6	37.4	17.1	12.0	36.9	35.5	46.7	6.8	0.0	47.1	75.0	34.6	15.2	20.0	48.0			31.5
r price	II	62.5	15.5	51.7	72.4	73.8	48.9	41.3	13.3	54.5	43.3	51.5	25.0	48.4	68.7	62.0	34.3			53.1
% per	Ι	16.8	0.0	4.5	8.5	12.5	80	14.5	6.7	38.6	56.7	0.0	0.0	1.9	13.1	15.3	1.2			8,5
Total	KG.	963	58	1474	340	267	352	138	15	44	30	68	∞	159	66	150	890		5155	
class	ΙΛ	11	24	93	7	9	19	12	5	0	0	7	0	24	K	4	147		356	
price c	III	188	27	552	58	44	130	49	7	2	С	32	9	52	15	30	427		1623	
per pr	II	602	0	762	246	271	172	57	2	24	13	35	2	77	99	93	305		2738	
Kg p	Н	162	0	19	29	46	31	20	Ч	17	17	0	0	1	13	23	11		440	
AHH/VAUST/1983	Lake	Lagarfljót	Núpavatn	Sænautavatn	Anavatn	Múlavatn	Urriðavatn	Langavatn	Reyðarvatn	Pórisvatn	Stekkavatn	Alftavatn	Kílatjörn	Skriðuvatn	Arnarvatn	Grafarvatn	Eiðavatn		• • • · · · · · · · · · · · · · · · · ·	••
	Number		7504-102	7504-122	7504-124	7505-001	7506-001	7506-002	7506-004	7507-010	7507-020	7507-024	7508-016	7601-001	7604-004	7604-005	7604-006		TOTAL	Average

Explanations:

Icelandic currency (Kronur)

Mean price per kilo IKR IKR/Kg

Fishing intensity. This figure should be increased by approx. 15% to find Hectare (lo.ooo sq.m) Ha. Kg/ha.

The reference number of the lakes are based on standard references for different counties, and a serial number for the lake. the gross weight. Number

Statistics for delivered Trout and Arctic Char in the Egilsstadir Fish-reception during the period from 16th June 1983 to 15th September 1983. Table 3.

CONCLUSIONS.

The period immediately after the lakes become free of ice is the time which gives the greatest yield per unit effort due to the increased mobility of fish during the emigration time of Chironomadae which in turn increases the fishability of passive fishing gear like gill-nets. This fact is to some extent highlighted in greater quantities of fish during the June-July period than later (Table 2).

The reliability of the data collected at the Egilsstæðir Fish-reception are somewhat doubtful due to the fact, that an un-known quantity of fish is marketet through other channels, and this is variable between lakes, and difficult to assess with the present control system.

It is of importance that a more reliable system to collect data about the Trout and Arctic char fisheries in lakes, which will provide a sound basis for future management. Preferably this should involve the fishermen themselves.

References .:

Árni Helgason,1983: Athuganir á upplýsingum úr aflaskýrslum hjá fiskmóttöku KHB sumarið 1983. VAUST/8306, 12.12.1983