



Serial No. 2536
(B.g.14)

ICES/ICNAF Salmon Doc. 71/10
(also ICNAF Res.Doc. 71/66)

ANNUAL MEETING - JUNE 1971

Canadian drift-net fishing and tagging of
Atlantic salmon in the Labrador Sea and
at West Greenland in 1970

by

A. W. May
Fisheries Research Board of Canada
Biological Station, St. John's, Nfld.

Fishing Results

During September and early October, 1970 the research vessel *A. T. Cameron* carried out drift-net fishing over a wide area of the Labrador Sea and near West Greenland. About 3 miles of nets were fished in each set, using a variety of mesh sizes in multifilament and monofilament (MF) twines. Results are summarized in Table 1. Fishing positions are shown on the attached map.

Catches were best near the West Greenland coast and in the southern Labrador Sea, and were low in the western part of the Davis Strait. Catch per effort was best for the smallest mesh sizes used, and, unlike the results obtained in 1969, catch per effort in monofilament nets was about the same as in multifilament nets. The largest size monofilament meshes produced the greatest proportion of fish in suitable condition for tagging.

Tagging

Overall, 147 fish were tagged, all but 10 in "good" or "excellent" condition as defined in last year's report. Three tags were returned from West Greenland in 1970, all from fish tagged at stations near the Greenland coast.

Table 1. Salmon catch/effort by mesh size and area, A. T. Cameron 177.

Area	Mesh	Effort mile - hr	Number caught	No./ mile - hr	Number tagged	Tagged/ mile - hr	% Tagged
Davis Strait and Labrador Sea (Sets 204-206, 218-221)	5	27.793	16	0.58	9	0.32	56.3
	5 MF	28.050	17	0.61	6	0.21	35.3
	5½	28.050	6	0.21	2	0.07	33.3
	5½ MF	28.050	10	0.36	3	0.11	30.0
	6	28.050	9	0.32	3	0.11	33.3
	6 MF	28.050	7	0.25	4	0.14	57.1
West Greenland (Sets 203, 207- 217)	5	55.580	65	1.17	23	0.41	35.4
	5 MF	55.750	61	1.09	27	0.48	44.3
	5½	52.600	33	0.63	17	0.32	51.5
	5½ MF	52.600	31	0.59	16	0.30	51.6
	6	55.750	29	0.52	12	0.22	41.4
	6 MF	55.750	38	0.68	25	0.45	65.8
All Areas (Sets 203-221)	5	83.373	81	0.97	32	0.38	39.5
	5 MF	83.800	78	0.93	33	0.39	42.3
	5½	80.650	39	0.48	19	0.24	48.7
	5½ MF	80.650	41	0.51	19	0.24	46.3
	6	83.800	38	0.45	15	0.18	39.5
	6 MF	83.800	45	0.54	29	0.35	64.4
Davis Strait (204-206)	All	71.743	9	0.13	4	0.06	44.4
Labrador Sea (218-221)	All	96.300	56	0.58	23	0.24	41.1
Davis Str.- Labrador Sea	All	168.043	65	0.39	27	0.16	41.5
West Greenland	All	328.030	257	0.78	120	0.37	46.7
All Areas	All	496.073	322	0.65	147	0.30	45.7
Sets 204, 206, 208, 210, 211, 212, 216, 217, 219, 221 (Nets patrolled)	5	46.443	46	0.99	28	0.60	60.9
	5 MF	46.700	37	0.79	18	0.39	48.6
	5½	46.700	16	0.34	12	0.26	75.0
	5½ MF	46.700	18	0.39	12	0.26	66.7
	6	46.700	18	0.39	11	0.24	61.1
	6 MF	46.700	27	0.58	23	0.49	85.2

Table 2. Salmon tags applied by A. T. Cameron 177, 1970.

Date	Lat N	Long W	Tag Nos.	Total tagged
Sept. 3	64-04	53-18	X401	1
" 5	63-43	59-40	X402 - X403	2
" 6	65-51	58-42	X404 - X405	2
" 8	67-47	55-20	X406 - X414	9
" 11	69-48	55-17	X415 - X430	16
" 12	69-06	55-30	X431 - X439	9
" 15	67-34	54-29	X440	1
" 16	67-17	54-31	X441 - X454	14
" 17	66-51	54-59	X455 - X474	20
" 18	66-47	55-12	X475 - X480, X497 - X499	9
" 22	66-41	54-53	X481 - X488	8
" 23	65-59	53-51	X489 - X496, X500 - X503	12
" 25	64-56	53-08	X504 - X525 (except X508)	21
" 30	61-53	53-26	X526	1
Oct. 2	59-17	54-10	X527 - X530	4
" 3	58-03	52-26	X531 - X534	4
" 4	56-45	50-32	X535 - X548	14
Total Tagged				147

