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Breakdown of catch by type of gear in the Newfoundland inshore cod fishery in 1964

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As part of a continuing program to furnish data on the Newfoundland inshore cod fishery, the Department of Fisheries of Canada collected, from selected settlements, statistics on the proportion of cod caught by each gear in the inshore Newfoundland fishery during 1964. In addition the Fisheries Research Board of Canada collected similar data in regular sampling centres along the Newfoundland coast. These two sources of data have been used to derive Table 1, showing the breakdown of the inshore cod catch by the various gears in 1964. The settlements sampled are shown in Fig. 1.

The catch breakdown by gear shown in Table 1 is not strictly consistent with the ICNAF definition of the inshore fishery as being the fishery by boats under 26 tons since some of the longliners considered in this survey are over 25 tons. The column showing the landings from the inshore fishery in 1964 in Table 1 actually shows the landings by inshore boats under 26 tons plus the landings by longliners over 25 tons. Data for 1963 are given also, which include the landings of inshore boats plus longliners. (In Res. Doc. No. 32, Annual Meeting, 1965, through error, the total landing figures given included only those for boats under 26 tons, although the sampled landings included those for longliners 26 tons and over, in addition to landings for inshore boats under 26 tons.) It is probably more valid to consider the landings for longliners as inshore since they do fish very close to shore.

On an annual basis the greatest percentage of cod in the inshore fishery in 3K and 3L was caught by codtraps, whereas in 3Ps the greatest percentage was caught by gillnets and longlines. In 3Pn almost all the cod was caught by longlines whereas in 4R the gillnet fishery accounted for almost half the catch with codtraps yielding approximately one-quarter.

The proportion caught by each gear is presented on a seasonal basis in Fig. 2. This shows that codtraps accounted for most of the catch in June and July in 3K and 3L but the proportion decreased to a very low level in August. In 3Ps codtraps in June were less important than in 3K or 3L and in July accounted for very little of the catch. There was no trap fishery in 3Pn at all, whereas in 4R the proportion caught by codtraps increased from one-fifth in June to two-fifths in July.

Gillnets were important in the July-September period in 3K and the May-August period in 3Ps but were only important during May in 3L. In 4R gillnets were important in June and August but unimportant in July.

Handlines were unimportant in 3K, 3Ps and 3Pn but were important in 3L in the August to September period. In 4R handlines were important in the fall fishery.

Jiggers were unimportant in 3K, 3L and 4R but were important in 3Ps during the June-August period and in 3Pn in June.

Longlines were important in the fall in 3K and 3L and also in May in 3L. In 3Ps, they were important in the January-April period and the September-December period but unimportant during the summer season. In 3Pn longlines were important during the entire season but the proportion decreased in the May-July period when jiggers were used somewhat. In 4R longlines were important only in May.

In comparing the 1964 figures with the 1963 figures published in ICNAF Res. Doc. No. 32, Annual Meeting, 1965, the general picture is very similar for 3K and 3L. However, the jigger fishery was less important in both 3K and 3L in 1964 while the codtrap fishery started earlier in 3K and was more important in August in 3L in 1964. Also, the gillnet fishery was less important and the longline fishery more important in the fall in 3L in 1964 while the reverse was true for 3K. In 3Ps the codtrap fishery accounted for a much smaller proportion of cod in both June and July in 1964 and the gillnet fishery was more important in this period. The longline fishery in the fall showed the same pattern as in 1963. The jigger fishery was more important in the summer and less important in the fall in 1964 than 1963. In 3Pn the pattern was very similar in both years but in 1964 the jigger fishery contributed a little more to the catch. In 4R the trap fishery was less important and the gillnet fishery more important in June and July in 1964 and the fall handline fishery began earlier than in 1963.

Table 1. Percentage of cod landed in each month by each type of gear in the Newfoundland inshore cod (1) each month and the amount on which the breakdown by gear is based are shown for comparison (T, codtrap; GN, gillnet; HL, handline; (* denotes percentages less than 0.5.)

l'otal)ecember	November	October	zeptember	lugust	July	June	T. G.Y	7	April	March	February	January			Month	
89,805		Ď.	168	6,877	10,860	19,172	37,435	14,498	. 29	•						landed ('000 lb)	1964	
20,082	,	co .	2111	1,272	1,263	3,452	9,159	189,1								sampled ('000 1b)	1964 Amount	
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μ	ı	4	ı	*	w	*	 -	,	*						 -	landed by		
16	ı	%	138	57	75	v	v	. ,	×						TI	φ		
52,686	779	1,071	2,919	5,984	6,520	16,219	9,875		3.256	2,280	1,801	1,632	, , ,	ž O	(dI 0001)	Amount landed	1961	
185,8	137	21.8	372	671	1,191	2,358	2,202	022	600	311	234	212	7.	}	(4T 0001)	Amount	1961	
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Table 1 (cont.)

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January	1,395	620	ı	1	ι	¥	100	75								32	393	775	75
February	3,775	1,692	1	ı	ı	*	100	13								18	162	2,307	13
March	3,479	1,920	1	1	1	*	100	50							1,280	6	1,856	6,043	33
April .	1 80€ ग	1,758	ı	1	1	w	97	332							33,957	131	2,369	3,149	237
Eay	1,222	328	1	ı	ı	9	91	1,103	7	•	•	•	25	75	39,689	6با3و با	4,596	1,205	883
June	869	机工	ı	ı	1	2,5	75	10,905	468	13	53	۲	œ	Ŋ	12,697	38,248	20,093	536	23,069
July	580	167	1	1	v	vı	90	16,988	250	39	Ħ	11	12	20	9,711	76,181	19,140	738	970,51
August	617	93	i	1	1,	νı	%	8,734	83	1	62	21	vı	12	6,032	19,366	485,6	537	12,670
September	857	χ	1	1	1	+	96	2,061	24	ı	•	8	10	Б	1,214	12,153	4,100	կ79	105,1
October	521	15	ı	ı	1	vı	%	982	31	1	ı	70	10	20	Ħ	8,217	6,200	781	1,788
November	652	265	1	1	1	ν	Ж	287								0با3ر 2	890	513	281
December	619	153	•	ı	1	vı	%	89								101	383	517	62
[otal	18,271	7,218	1	ı	*	N	98	619, لبا	865	23	43	Ħ	v	14	104,594	2بليا, 161	67,066	17,580	58,658
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(1) Landings by all boats under 26 tons and by all longliners.

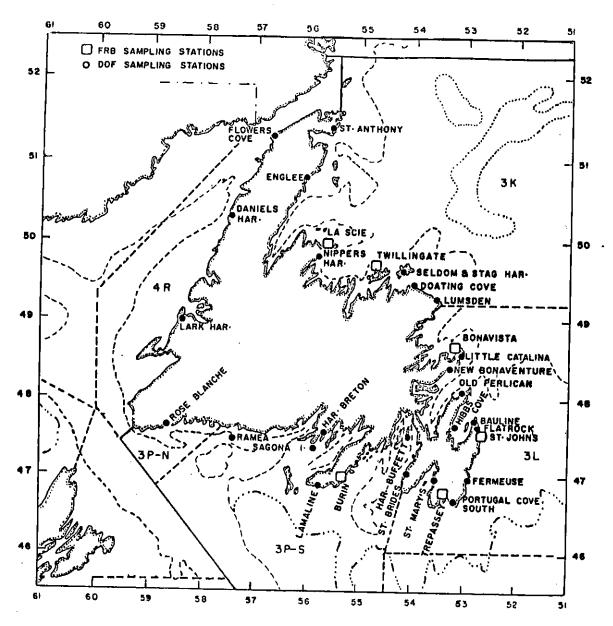


Fig. 1. Map of Newfoundland showing the settlements sampled for this study.

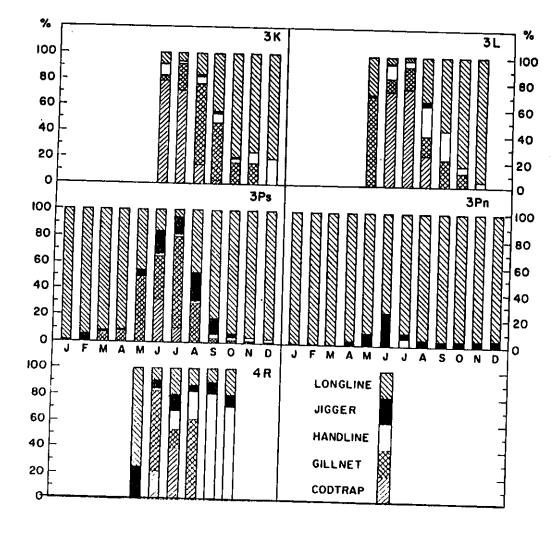


Fig. 2. Percentages of cod caught in each month by the various gears in the Newfoundland inshore fishery. (The figures include landings by all boats under 26 tons and by all longliners.)