

# **INTERNATIONAL COMMISSION**

**FOR THE**

**NORTHWEST ATLANTIC FISHERIES**



## **SAMPLING YEARBOOK**

**VOLUME 13**

**PART I. GROUND FISH AND FLOUNDERS — 1968**

**PREPARED BY MISS G. F. SCHRADER**

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## PREFACE

Volume 13 of the Sampling Yearbook is presented in two separate books - Part I and Part II.

Part I presents length and age data for cod, haddock, redfish, silver hake, American plaice, Greenland halibut, witch, yellowtail, pollock, red hake, white hake and wolffish collected during the calendar year 1968 in the ICNAF Area. These data were contributed by Canada, Denmark, France, Federal Republic of Germany, Poland, Portugal, Spain, USSR, UK and USA. Data from Iceland include sampling in East Greenland area only. Norway and Romania did not submit data. Italy did not fish in the ICNAF Area. Part I also presents length and/or age data for silver hake, yellowtail and red hake collected by USA in the calendar years 1962-1966 inclusive.

Part II presents length and age data for herring only collected during the calendar years from 1961 to 1968 inclusive in the ICNAF Area, in accordance with the requirements of the Standing Committee on Research and Statistics in 1968 (Redbook 1968, Pt. I, p. 86) and in 1969 (Redbook 1969, Pt. I. p. 13-14).

Presentation of the length and age data in Part I follows the 1964 recommendation of the Sampling Subcommittee (Redbook 1964, Pt. I, p. 36-37):

- a) that countries be requested to continue to report length composition data as numbers per mille on the same time (month), area (statistical division), gear and vessel category basis as in previous years, and that for redfish and species of flounder and halibut (but not other species) they should also be broken down by sex, and for redfish by 50-fathom depth zones also. Other items of relevant information should also be reported and published in accordance with earlier recommendations (see "Report of Working Group on Sampling Yearbook"; Redbook 1962, Part I, p. 39-41). The importance of continuing to supply information on the number and weight of fish measured and the number and weight of fish caught or landed in the sampled fishery is particularly stressed.
- b) that age data for cod and haddock should, in future, be reported and published in the form of age-length keys on actual numbers basis, grouped by quarters, statistical division, gear and vessel category. For all other species, countries should continue to report age compositions as numbers per mille as in the past.
- c) that when both length and age data are available for cod and haddock for the same fishery, they should be reported

and published in a composite, tabular form called the age-length table which consists of:

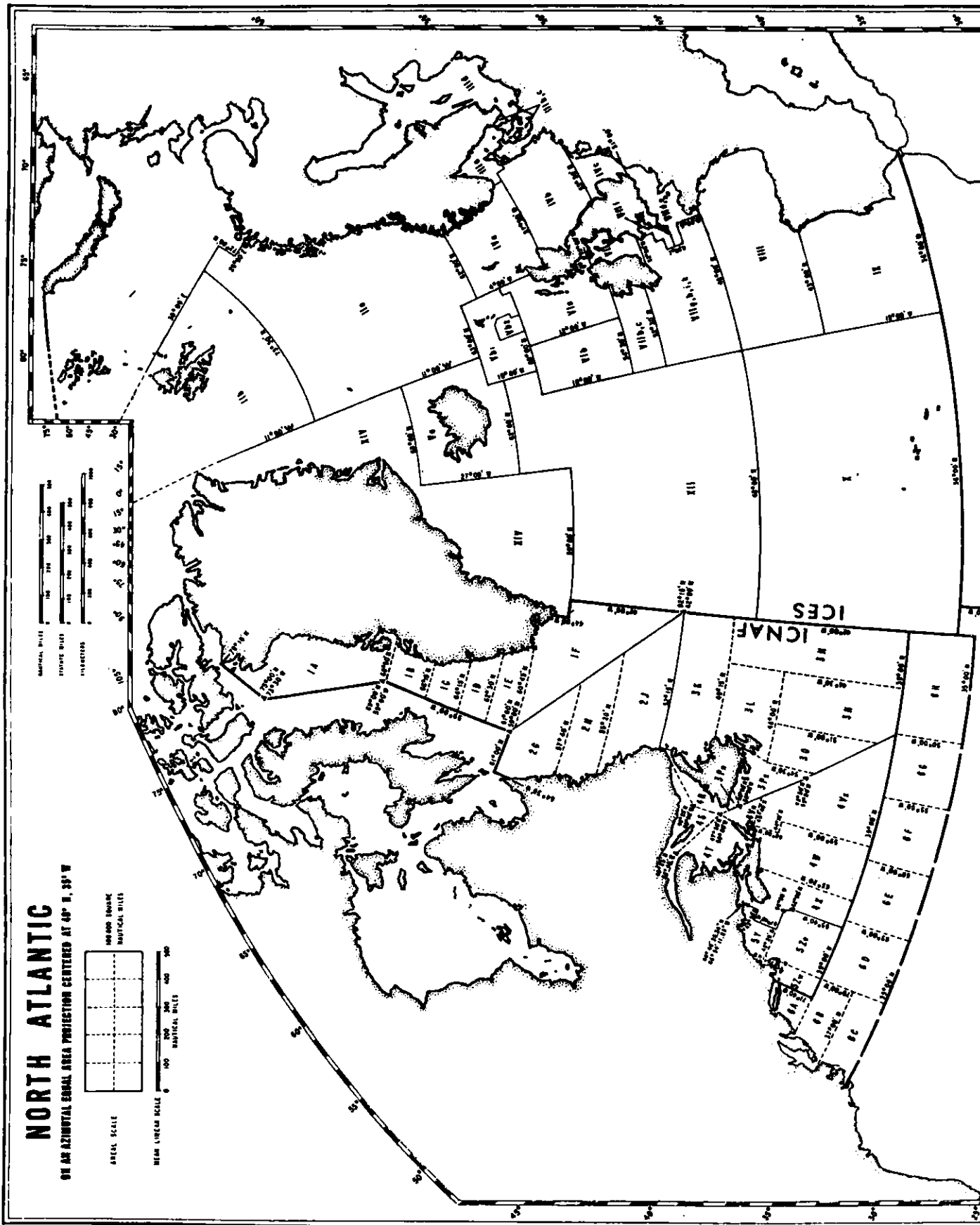
- (i) The age-length key, in actual numbers, of the composite quarterly age samples,
- (ii) The length composition, in "per mille" of the composite monthly length samples,
- (iii) The age composition of landings in each month of the quarter by using the age-length key to calculate the proportion of ages in each length group in the composite length compositions.

Information on length and age data collected by countries and not previously reported on ICNAF sampling forms is presented in tabular form in the section on "Notes on Sampling Data" (p.xiii-xxxvi) in accordance with the requirements of the 1968 meeting of the Subcommittee on Statistics and Sampling (Redbook 1968, Pt. I, p.69-70).

The Secretariat is grateful to the personnel of those laboratories who have continued to support the Commission's need for more and adequate sampling of the ICNAF fisheries with a view to providing better assessments of the state of the stocks and the effects of the fisheries and regulatory measures upon them.

L. R. Day  
Executive Secretary

March, 1970



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## NOTES ON THE SAMPLING DATA

The "Notes on the Sampling Data" are contributed by the reporting countries. The "Notes" contain information relating to the methods of collection and presentation of the length and age data by each reporting country. The "Notes" also contain tabular information on the length and age data which were collected by some countries but were not reported on the ICNAF sampling forms.

CANADA (Maritimes and Quebec)

Reported by: A. C. Kohler  
D. N. Fitzgerald  
A. Marcotte

Commercial landings of groundfish in the provinces of Nova Scotia, New Brunswick, Quebec and Prince Edward Island have been continuously sampled for size and age composition since 1945. Sampling emphasis has been placed on landings by offshore vessels at the largest groundfish ports, but has also included sampling from the inshore fleets. Length frequencies from routine sampling of the commercial catches and landings are reported to the Commission. Age-frequency data are not reported.

Landings of cod and haddock are normally culled by market category. Cod are divided into Large (Steak) and Medium (Market) sizes at about 10 pounds fresh gutted weight. Small (scrod) cod and haddock are mainly less than 2 1/2 pounds gutted weight. Small round haddock are sometimes landed in a separate market category. These market categories are usually sampled approximately in proportion to the relative numbers of each in a trip landing. When the final weighout is available, the length frequency of the landings is determined by applying weighting factors to each category. Other species reported are not usually culled by market category. Length frequencies by sexes are usually given for redfish, American plaice, yellow-tail, witch, and winter flounder. In 1968, some of the redfish samples were not examined for sex and total frequencies only are available for these samples.

Length frequencies of haddock landings from the Bay of Fundy area of Division 4X differ markedly from those in the southern area of LaHave and Browns Banks. Haddock samples from Division 4X have been summarized separately for the two regions: (1) the area north of Latitude 44° 00' N; (2) the area south of Latitude 44° 00' N.

Fork length measurements are recorded to the nearest centimetre for each fish. These measurements are reported by 3-cm groups for cod, 2-cm groups for haddock, white hake, pollock, and cusk, and 1-cm groups for redfish and flounders. Mesh size is recorded as the approximate inside, stretched, wet, used measurements of an average codend mesh. Hook size is given by number, No. 6/0 being the smallest commercial groundfish hook and No. 14 being the largest hook used on longlines by Quebec. Combined samples by tonnage classes are unweighted. Estimated number landed is in hundreds of fish. Mesh size is shown in inches.

CANADA (Newfoundland)

Reported by: A. T. Pinhorn  
R. Wells  
T. Collier

Length frequencies are based on samples obtained from landings of the commercial groundfish fishery. Research samples from Labrador are taken on commercial gears operated from a small research boat.

Measurements are recorded to the nearest centimetre for fork lengths of cod, haddock and redfish, and for total length of flounders (American plaice, witch and yellowtail). Measurements are made on shore before appreciable culling has occurred in processing plants. Samples of landing after discard indicate that some of the catch was thrown away at sea prior to landing whereas samples of landing before discard indicate that no fish were thrown away before landing.

The sample frequencies are converted to numbers per mille, but are otherwise unadjusted.

The mesh sizes are difficult to sort since manilla, nylon, etc., can be used on the same trip and frequencies cannot be separated according to type of twine and size of mesh. Also, the mesh size given is often of the size dry as bought, before use - the only size that the fishermen generally know.

In a few cases no information was available. In these cases the space for the information was completed with a dash.

The following tables present the lists of otoliths read and not read from sampling not previously reported on ICNAF sampling forms (Circular Letter 69/9, Addendum, dated 17 February 1969).

It should be noted that the lists begin in 1954, the first year of reporting by ICNAF in the Sampling Yearbook. Limited sampling was conducted before this time mostly on cod and haddock but length data were not submitted to ICNAF. These data are all from the commercial fishery in the Newfoundland area. Lengths and ages from research sampling have never been submitted to ICNAF; submissions have been confined to data from commercial sampling.

Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read
COD (INSHORE)				
<u>1954</u>				
3K	Tr	Aug	368	-
3L	Tr	Jul	271	-
	HL	Jul	130	-
	LL	Jul	92	-
3Ps	LT	Apr	16	-
		May	55	-
		Jun	64	-
		Jul	31	-
		Aug	85	-
		Sep	46	-
		Oct	56	-
		Nov	29	-
	LL	May	137	-
		Jul	26	-
	Ji	Jul	15	-
<u>1955</u>				
3L	Tr	Jun	54	-
		Jul	566	-
	HL	Jul	115	-
	LL	Jul	119	-
3Ps	Tr	Jul	23	-
	LT	May	109	-
		Jun	94	-
		Jul	47	-
		Sep	140	-
		Oct	81	-
		Nov	55	-
	Ji	Jul	54	-
4R	LL	Sep	225	-
<u>1956</u>				
3L	Tr	Jun	81	-
		Jul	571	-
	HL	Jun	20	-
		Jul	176	-
	LL	Jun	45	-
		Jul	126	-

Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read
<u>1956</u>				
3Ps	LT	Apr	51	-
		May	26	-
		Jun	24	-
		Jul	25	-
		Aug	85	-
		Sep	44	-
		Oct	92	-
		Nov	23	-
	Ji	Jun	25	-
		Jul	26	-
3Pn	LT	Jun	42	-
		Jul	60	-
<u>1957</u>				
3L	Tr	Jun	40	-
		Jul	937	-
		Aug	248	-
	HL	Jun	60	-
		Jul	355	-
		Aug	99	-
		Sep	365	-
		Oct	55	-
	LT	Sep	28	-
		Oct	45	-
	LL	Jun	30	-
		Jul	331	-
		Aug	110	-
		Sep	337	-
		Oct	139	-
3Ps	Tr	Jun	258	-
		Jul	17	-
	LT	May	52	-
		Jun	258	-
		Jul	182	-
		Aug	97	-
		Sep	100	-
		Oct	45	-
		Nov	67	-
	Ji	Jun	135	-
		Jul	22	-
3Pn	LT	Mar	670	-

Year and Div	Gear	Month	No. of Otoliths		Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read				Ages Read	Ages Not Read
COD (INSHORE) (Cont'd)					<u>1959</u>				
<u>1957</u>					3L	Tr	Jun	155	-
3Pn	LT	Apr	334	-			Jul	710	-
		Jun	26	-		HL	Jun	209	-
		Jul	203	-			Jul	305	-
	LL	Mar	88	-			Aug	55	-
		Apr	118	-			Sep	122	-
		Jul	50	-		LT	Sep	130	-
							Oct	35	-
						LL	Jun	63	-
<u>1958</u>							Jul	109	-
3L	Tr	Jun	230	-			Aug	112	-
		Jul	601	-			Sep	54	-
	HL	Jun	138	-					
		Jul	222	-	3Ps	Tr	Jul	392	-
		Aug	96	-		LT	May	20	-
		Sep	144	-			Sep	85	-
	LT	Jul	22	-			Nov	23	-
		Aug	257	-					
		Sep	5	-					
	LL	Jun	106	-	3Pn	LT	Aug	36	-
		Jul	225	-		LL	Apr	657	-
		Aug	55	-		Ji	Jul	57	-
		Sep	75	-			Aug	103	-
	Ji	Jul	25	-					
					<u>1960</u>				
3Ps	Tr	Jul	276	-	2G	Ji	Jul	316	-
	LT	May	67	-					
		Jul	178	-	2H	Ji	Jul	621	-
		Sep	179	-					
		Nov	28	-	2J	Tr	Jul	761	-
	Ji	Jul	25	-			Aug	300	-
3Pn	HL	Jul	27	-	3L	Tr	Jun	372	-
	LT	Jul	203	-			Jul	843	-
							Aug	18	-
<u>1959</u>						HL	Jun	13	-
2G	Ji	Aug	120	-			Jul	252	-
							Sep	68	-
2H	Ji	Aug	600	-		LT	Sep	77	-
						LL	Jul	315	-
2J	Tr	Jul	477	-			Sep	122	-
		Aug	251	-		Ji	Jun	26	-
	Ji	Aug	120	-			Jul	8	-



Year and Div	Gear	Month	No. of Otoliths		Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read				Ages Read	Ages Not Read
COD (INSHORE) (Cont'd)					<u>1962</u>				
<u>1960</u> 3Ps	Tr	May	21	-	2J	Tr	Jul	692	-
		Jul	379	-			Aug	224	-
	LT	May	40	-	3K	Ji	Jul	120	-
		Jul	253	-		Tr	Aug	295	-
		Sep	124	-		HL	Aug	124	-
	Ji	May	22	-		LT	Aug	282	-
		Jul	68	-		LL	Aug	283	-
				Ji		Aug	134	-	
				GN		Aug	216	-	
<u>1961</u> 3K	Tr	Jul	1224	-	3L	Tr	Jun	216	-
	Ji	Jul	124	-			Jul	1038	-
3L	Tr	Jun	137	-			Aug	257	-
		Jul	869	-	HL	Jul	236	-	
		Aug	77	-		Sep	25	-	
	HL	Jul	87	-	LT	Sep	129	-	
		Aug	7	-		Oct	138	-	
	LT	Sep	155	-	LL	Jul	230	-	
		Jul	215	-		Sep	243	-	
		Aug	294	-	GN	Jun	274	-	
	GN	Jul	124	-		Jul	217	-	
		Aug	160	-	3Ps	Tr	Jun	247	-
3Ps	Tr	Jun	121	-			Jul	122	-
		Jul	407	-			May	146	-
	LT	Jun	79	-			Jun	231	-
		Jul	215	-			Jul	60	-
		Aug	39	-			Sep	173	-
Ji	Sep	169	-			Nov	50	-	
	Jul	78	-	GN	Jul	7	-		
3Pn	LT	Apr	321	-	4R	Tr	Jul	392	-
		Jun	53	-		Ho	Sep	61	-
		Jul	43	-	<u>1963</u>				
	LL	Mar	391	-	2G	Ji	Aug	257	-
		Apr	239	-	2H	Ji	Aug	937	-
Ji	Jun	24	-	2J		Tr	Jul	565	-
<u>1962</u> 2G	Ji	Aug	205		-		Aug	307	-
							Aug	562	-
2H	Ji	Jul	341	-					
		Aug	203	-					

Year and Div	Gear	Month	No. of Otoliths		Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read				Ages Read	Ages Not Read
COD (INSHORE) (Cont'd)					<u>1964</u>				
<u>1963</u>					2J				
3K	Tr	Jun	327	-	GN	Tr	Jul	222	-
		Jul	669	-		Ji	Jul	203	-
	HL	Jun	145	-			Aug	166	-
		Jul	359	-			Jul	20	-
	LT	Jun	205	-	3K	Tr	Jul	590	-
		Jul	258	-		HL	Jul	120	-
	Ji	Jul	262	-		LL	Jul	348	-
	GN	Sep	376	-		GN	Jul	243	-
	3L	Tr	Jun	96	-		Sep	163	-
			Jul	749	-	3L	Tr	Jul	497
Aug			179	-	HL		Jul	47	-
HL		Jul	230	-			Sep	5	-
		Sep	192	-	LT		Sep	166	-
LT		Sep	294	-		LL	Jul	298	-
		Oct	124	-		Sep	106	334	
LL		Jul	260	-		GN	May	-	349
		Sep	459	-		Jul	-	373	
GN		Jul	235	-	3Ps	Tr	Jun	102	-
							Jul	59	-
3Ps	Tr	Jun	157	-		LT	Sep	258	-
		Jul	84	-			Oct	-	82
LT	May	May	42	-			Nov	-	50
		Sep	243	-	GN	May	310	-	
		Nov	59	-			Jun	211	-
		GN	May	106	-		Jul	176	-
3Pn	LL	Jun	155	-	4R	Tr	Jul	130	-
		Jul	132	-		LL	Sep	123	-
		Sep	201	-			Nov	121	-
		4S	LL	Oct		205	-		
4R	Tr	Jul	485	-	<u>1965</u>				
						2G			
4S	LL	Sep	372	-	Ji	Aug	220	-	
						2H	Tr	Jul	201
<u>1964</u>					Ji		Jul	430	-
2G	Ji	Aug	123	-					
2H	Ji	Jul	136	-					
		Aug	141	-					

Year and Div	Gear	Month	No. of Otoliths		Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read				Ages Read	Ages Not Read
COD (INSHORE) (Cont'd)					<u>1966</u>				
<u>1965</u>					2J	Tr	Jul	362	-
2J	Tr	Jun	92	-		Ji	Aug	421	-
		Jul	318	-		GN	Jul	381	-
	Ji	Jul	79	-			Aug	342	-
		Aug	296	-	3K	Tr	Jun	344	-
	GN	Jul	226	-			Jul	400	-
		Aug	348	-		HL	Jun	130	-
3K	Tr	Jun	167	-		LL	Jun	227	-
		Jul	781	-			Jul	330	-
	HL	Jul	167	-			Sep	463	-
	LT	Jul	121	-		GN	Jun	85	-
		Sep	207	-			Jul	35	-
	LL	Jul	489	-			Sep	316	-
		Sep	201	-	3L	Tr	Jun	270	-
	GN	Jul	67	-			Jul	373	-
3L	Tr	Jul	462	-			Aug	181	-
	HL	Jul	231	-		HL	Jul	232	-
		Sep	229	-			Sep	207	-
	LL	Jul	293	-		LT	Sep	254	-
		Sep	276	-			Nov	83	-
	GN	May	-	352			Dec	153	-
		Jun	-	164		LL	Jul	333	-
		Jul	-	244			Sep	261	-
3Ps	Tr	Jun	142	201		GN	Jun	-	274
		Jul	42	-			Jul	-	121
	LT	Sep	-	323	3Ps	Tr	Jun	-	484
		Oct	-	4			Jul	-	423
	GN	May	379	-		LT	Jun	-	246
		Jun	-	317			Jul	-	81
		Jul	-	119			Sep	-	389
3Pn	LL	Feb	66	-			Nov	-	85
		Mar	163	-		LL	Mar	-	30
4R	Tr	Jun	198	-		GN	May	-	430
							Jun	-	317
							Jul	-	55
					3Pn	LT	Mar	291	-
<u>1966</u>					4R	Tr	Jun	211	-
2G	Ji	Jul	196	-		LT	Jul	418	-
2H	Tr	Aug	280	-			Sep	225	-
	Ji	Jul	412	-					

Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read
COD (INSHORE) (Cont'd)				
<u>1967</u>				
2G	J1	Aug	247	-
2H	Tr	Aug	206	-
	J1	Aug	518	-
2J	Tr	Jun	107	-
		Jul	282	-
	J1	Aug	299	-
	GN	Jun	127	-
		Jul	285	-
		Aug	332	-
3K	Tr	Jun	72	-
		Jul	522	-
	HL	Jul	319	-
	LT	Jul	232	-
	LL	Jun	372	-
		Jul	167	-
	GN	Sep	74	-
3L	Tr	Jun	-	105
		Jul	398	121
	HL	Jul	237	-
		Sep	208	-
	LT	Sep	222	-
	LL	Jul	316	-
		Sep	149	-
		GN	May	-
		Jun	-	305
3Ps	Tr	Jun	-	347
		Jul	-	927
	LT	Sep	-	320
		Nov	-	52
	GN	Apr	-	40
		May	-	456
		Jun	-	314
	Jul	-	28	
3Pn	LT	Mar	-	431
4R	Tr	Jul	255	-
	GN	Jun	354	-
		Sep	624	-

Year and Div	Gear	Month	No. of Otoliths		
			Ages Read	Ages Not Read	
<u>1968</u>					
2G	J1	Aug	-	257	
2H	Tr	Aug	-	542	
	J1	Aug	-	411	
2J	Tr	Jul	-	336	
		Aug	-	301	
	GN	Aug	-	288	
3K	Tr	Jun	-	719	
		Jul	-	583	
	HL	Jun	-	152	
		Sep	-	403	
	LL	Jun	-	213	
		Jul	-	277	
		GN	Jun	-	225
			Jul	-	45
		Sep	-	44	
3L	Tr	Jul	290	159	
		Jun	-	187	
	HL	Jul	-	203	
		Sep	-	198	
	LL	Jul	-	194	
		Sep	-	185	
		GN	Mar	353	-
			Jun	357	227
		Aug	348	-	
		Oct	221	-	
3Ps	Tr	Jun	-	166	
		Jul	-	504	
	LT	Sep	-	303	
	GN	Apr	-	68	
		May	-	319	
		Jun	-	250	
		Jul	-	164	
3Pn	LT	Mar	-	420	
4R	Tr	Jun	-	265	
	GN	Jun	-	454	
		Jul	-	263	
		Oct	-	215	

Year and Div	Gear	Month	No. of Otoliths		Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read				Ages Read	Ages Not Read
COD (OFFSHORE)					3P,0	OT	Jan	101	-
							Feb	20	-
							Apr	20	-
							May	17	-
<u>1954</u>					3N,0	OT	Jan	17	-
3L	OT	Apr	-	23			Apr	20	-
		May	-	33			May	17	-
		Jun	-	88			Jan	17	-
		Jul	-	32			Apr	20	-
		Aug	-	59			Apr	20	-
3N	OT	May	-	20	3L,0,P	OT	Apr	20	-
30	OT	Jan	-	108	3N,P,				
		Feb	-	104	4Vs	OT	Apr	20	-
		Mar	-	124	<u>1956</u>				
		Apr	-	36	3L	OT	Apr	55	-
3P	OT	Jan	53	-			May	21	-
		Feb	19	-			Jun	41	-
		Mar	-	20	30	OT	Jan	10	-
		May	30	-			Dec	12	-
3N,0	OT	Feb	-	91	3P	OT	Oct	11	-
		Apr	-	26	3N,0	OT	Jan	10	-
		May	-	31	30,P	OT	Jan	17	-
3L,0	OT	Apr	-	19	3L,P	OT	Jun	13	-
3P,0	OT	Jan	-	91	<u>1957</u>				
		Feb	-	51	3L	OT	Jun	70	-
3L,P	OT	Jun	-	30			Mar	20	-
		Sep	-	14			Apr	13	-
		Oct	-	6			May	101	-
<u>1955</u>							Oct	16	-
3L	OT	Mar	40	-			Nov	41	-
		May	66	-	<u>1958</u>				
		Jun	67	-	3N	OT	Jan	34	-
		Aug	14	-			May	12	-
3P	OT	Jan	42	-	30	OT	Jan	18	-
		Feb	38	-					
		Mar	20	-					
		Nov	13	-					

Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read
COD (OFFSHORE) (Cont'd)				
<u>1958</u>				
3N,0	OT	Apr	22	-
<u>1959</u>				
3L	OT	Jun	51	-
3N	OT	May	14	-
		Jun	20	-
3P	OT	Mar	133	-
<u>1960</u>				
3L	OT	May	22	-
		Sep	80	-
3P	OT	Jan	52	-
<u>1961</u>				
3L	OT	Jun	66	-
		Sep	182	-
3P	OT	Mar	60	-
		Apr	22	-
30	OT	May	110	-
<u>1962</u>				
3L	OT	May	27	-
		Sep	15	-
3M	OT	Aug	-	53
		Sep	-	25
<u>1963</u>				
3L	OT	May	-	40
3N	OT	Apr	-	31
30	OT	May	-	190
		Jun	-	29

Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read
<u>1964</u>				
3L	OT	Apr	-	61
		May	-	98
		Jun	-	14
		Sep	-	61
3N	OT	Jun	-	46
30	OT	May	-	20
3P	OT	Jan	-	27
		May	-	26
4Vn	OT	Mar	-	178
		Apr	-	22
<u>1965</u>				
3L	OT	Apr	-	72
		May	-	93
		Jun	-	22
		Nov	-	45
3N	OT	May	-	45
		Nov	-	64
3N,0	OT	May	-	22
3Pn,Ps	OT	Feb	-	100
		Mar	-	14
4Vn	OT	Feb	-	128
		Mar	-	43
4Vs	OT	Mar	-	28
4R	OT	Mar	-	32
<u>1966</u>				
3L	OT	Apr	-	14
		May	-	100
		Jun	-	20

Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read
COD (OFFSHORE) (Cont'd)				
<u>1966</u>				
3N	OT	Mar	-	12
		Apr	-	7
		Nov	-	63
30	OT	Feb	-	32
		Apr	-	19
3Pn	OT	Mar	-	67
3Ps	OT	Feb	-	92
		Mar	-	87
4R	OT	Feb	-	42
		Mar	-	35
4Vn	OT	Feb	-	45
<u>1967</u>				
3L	OT	Sep	-	40
		Oct	-	24
		Nov	-	40
		Dec	-	44
3N	OT	Jan	-	19
		Sep	-	30
3Pn	OT	Mar	-	135
3Ps	OT	Feb	-	19
		Mar	-	39
		Apr	-	15
		Nov	-	24
4R	OT	Sep	-	40
4Vn	OT	Mar	-	17
4Vs	OT	Mar	-	96
<u>1968</u>				
2J	OT	Mar	-	32

Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read
<u>1968</u>				
3L	OT	Jan	-	14
		Mar	-	67
		Sep	-	88
		Nov	-	27
30	OT	Jan	-	23
		Feb	-	23
4R	OT	Feb	-	17
		Mar	-	22
4Vs	OT	Mar	-	17

## HADDOCK (COMMERCIAL)

<u>1954</u>				
3N	OT	Jan	85	-
		Feb	81	-
		Mar	391	-
		Apr	226	-
		May	124	-
30	OT	Apr	123	-
3P	OT	Jan	65	-
		Feb	118	-
		Mar	22	-
		Apr	21	-
		May	50	-
		Jun	128	-
		Aug	210	-
		Sep	268	-
		Oct	187	-
		Nov	232	-
		Dec	230	-
		<u>1955</u>		
3N	OT	Dec	42	-
30	OT	Feb	307	-
		Mar	13	-
		Oct	35	-

Year and Div	Gear	Month	No. of Otoliths		Year and Div	Gear	Month	No. of Otoliths				
			Ages Read	Ages Not Read				Ages Read	Ages Not Read			
HADDOCK (COMMERCIAL) (Cont'd)					<u>1957</u>							
<u>1955</u>	3Ps	OT	Jan	343	-	<u>30</u>	OT	Jan	321	-		
			Feb	109	-			Feb	297	-		
			Mar	347	-			Mar	337	-		
			Apr	225	-			Apr	269	-		
			May	145	-			May	292	-		
			Jun	96	-			Jun	66	-		
			Jul	173	-			Sep	65	-		
			Aug	64	-			Oct	25	-		
			Sep	185	-			3Ps	OT	Jan	15	-
			Oct	175	-			<u>1958</u>				
			Nov	174	-			<u>3N</u>	OT	Jul	21	-
			Dec	112	-					Aug	15	-
						Sep	112	-				
						Oct	121	-				
						Nov	109	-				
						Dec	43	-				
<u>1956</u>	3N	OT	Sep	15	-	30	OT	Jan	17	-		
			Oct	27	-			Feb	239	-		
			Nov	64	-			Mar	516	-		
	30	OT	Jan	331	-			Apr	55	-		
			Feb	12	-	May		111	-			
			Mar	94	-	Sep		17	-			
			Apr	27	-							
			May	130	-	<u>1959</u>		OT	Jan	281	-	
			Jun	104	-	<u>3N</u>			Aug	14	-	
			Nov	53	-			30	OT	Jan	86	-
			Dec	161	-					Feb	84	-
										Mar	207	-
					Apr	105	-					
					May	76	-					
	3Ps	OT	Jan	31	-			Jan	21	-		
			Feb	355	-							
			Mar	132	-			<u>1960</u>				
			Apr	144	-			<u>3N</u>	Jan	147	-	
			Jun	23	-				Feb	19	-	
	Jul	47	-			Apr	18	-				
	Aug	28	-			Nov	56	-				
	Sep	27	-									
<u>1957</u>	3N	OT	Sep	11	-							
			Oct	7	-							
			Nov	30	-							
			Dec	63	-							



Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read
HADDOCK (COMMERCIAL) (Cont'd)				
<u>1960</u>				
30	OT	Jan	139	-
		Feb	138	-
		Mar	458	-
		Apr	66	-
		May	264	-
		Nov	214	-
3Ps	OT	Jan	56	-
<u>1961</u>				
3N	OT	May	53	-
30	OT	Jan	685	-
		Feb	210	-
		Mar	574	-
		Apr	252	-
		May	336	-
<u>1962</u>				
30	OT	Jan	425	-
		Feb	279	-
		Mar	1172	-
		Apr	98	-
		May	-	313
		Dec	-	108
<u>1963</u>				
3N	OT	Apr	32	-
		May	23	-
30	OT	Jan	307	-
		Feb	24	-
		Mar	70	-
		Apr	190	-
		May	195	-
		Dec	60	-
<u>1964</u>				
3N	OT	Feb	111	-
		Mar	34	-
30	OT	Jan	179	-
		Mar	62	-
		May	112	-
		Sep	238	-

Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read
<u>1965</u>				
3N	OT	Jan	-	86
3N,0	OT	Jan	-	29
30	OT	Feb	-	161
		Apr	-	116
4R	OT	May	-	41
<u>1966</u>				
3N	OT	Mar	-	150
		Apr	-	38
30	OT	Apr	-	22
		May	-	20
3Ps	OT	Feb	-	41
		Sep	-	21
4X	OT	Mar	-	50
<u>1967</u>				
30	OT	May	-	123
3Ps	OT	Feb	-	20
		Nov	-	23

REDFISH (*S. mentella*)

<u>1953</u>				
3L	OT	Jul	-	103
		Aug	-	13
3L,N	OT	Jul	-	11
		Nov	-	15
3L,N,0	OT	Jun	-	15
3N	OT	Jan	-	36
		Feb	-	19
		Mar	-	23
		Apr	-	10
		Jul	-	34
		Aug	-	37

Year and Div	Gear	Month	No. of Otoliths		Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read				Ages Read	Ages Not Read
REDFISH ( <i>S. mentella</i> ) (Cont'd)					1954				
<u>1953</u>					<u>3P</u>	OT	Jan	-	11
3N	OT	Sep	-	57			Feb	-	22
		Oct	-	50			Mar	-	11
		Nov	-	10			Nov	-	16
		Dec	-	10			Dec	-	16
3N,0	OT	Apr	-	36	4R	OT	Aug	-	14
		Dec	-	15			Sep	-	13
3N,0,P	OT	Nov	-	10	3P,4R	OT	Sep	-	24
3N,P	OT	Oct	-	10	4S	OT	Sep	-	13
30	OT	Jan	-	18	3P,4S	OT	Oct	-	18
		Feb	-	32	4T	OT	May	-	37
		May	-	11			Jun	-	71
		Dec	-	23			Aug	-	13
3P	OT	Jul	-	10	<u>1955</u>				
3Ps	OT	Jan	-	12	<u>3N</u>	OT	Oct	-	28
4R	OT	Jul	-	10	30,P	OT	Jan	-	16
		Sep	-	10	3P	OT	Feb	-	33
4T	OT	Jun	-	44			Apr	-	21
							May	-	36
<u>1954</u>							Jun	-	21
3L	OT	Jul	-	36	3P,4R	OT	Sep	-	27
3L,0	OT	Jan	-	15	3P,4S	OT	Aug	-	17
		May	-	13	3P,4T,V	OT	Apr	-	20
3N	OT	Jan	-	10	3Ps	OT	Aug	-	62
		Jul	-	18			Sep	-	129
		Aug	-	16	4R	OT	Jun	-	114
3N,0	OT	Jan	-	10			Jul	-	116
30	OT	Mar	-	10			Aug	-	17
							Sep	-	52

Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read
REDFISH ( <i>S. mentella</i> ) (Cont'd)				
<u>1955</u>				
4R,T	OT	Jun	-	24
4S	OT	Jul	-	20
		Aug	-	19
4R,S	OT	Jun	-	12
<u>1956</u>				
3N	OT	Sep	-	20
		Nov	-	14
3P	OT	Sep	-	20
		Oct	-	220
3Ps	OT	Feb	-	58
		Jun	-	14
4R	OT	Jun	-	49
		Jul	-	89
		Aug	-	77
		Sep	-	54
4R,S	OT	Jul	-	26
		Aug	-	14
4R,S,T	OT	Jun	-	21
4S	OT	Jun	-	22
		Jul	-	154
		Sep	-	47
		Oct	-	12
4T	OT	Jul	-	18
<u>1957</u>				
3N	OT	Jul	-	102
		Aug	-	22
		Sep	-	47
		Oct	-	48
3Ps	OT	Oct	-	251

Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read
<u>1957</u>				
4R	OT	Jul	-	67
		Aug	-	20
		Oct	-	32
4S	OT	Jun	-	52
		Jul	-	17
		Aug	-	39
		Sep	-	55
		Oct	-	22
4R,S	OT	Jun	-	41
		Jul	-	51
<u>1958</u>				
2J	OT	Sep	-	97
3N	OT	Jan	-	34
		Jun	-	16
		Jul	-	23
		Nov	-	53
30	OT	Jan	-	20
		Apr	-	20
		May	-	93
		Nov	-	61
3Ps	OT	Jul	-	43
		Oct	-	272
4R	OT	Jun	-	65
		Jul	-	89
4S	OT	Jun	-	91
		Jul	-	133
<u>1959</u>				
3N	OT	Jul	-	45
		Aug	-	18
		Sep	-	34
30	OT	May	-	56
4R	OT	Aug	-	62

Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read
REDFISH ( <i>S. mentella</i> ) (Cont'd)				
<u>1959</u>				
4R,S	OT	Jul	-	84
4S	OT	Jul	-	70
<u>1960</u>				
3L	OT	Jul	-	14
		Sep	-	39
		Oct	-	28
		Nov	-	20
3N	OT	Sep	-	22
3Ps	OT	Sep	-	31
<u>1961</u>				
3N	OT	Jul	-	30
		Aug	-	24
		Nov	-	35
<u>1962</u>				
3L	OT	Sep	-	22
3N	OT	Sep	-	107
		Oct	-	20
		Nov	-	30
<u>1965</u>				
4Vs	OT	Mar	-	48

REDFISH (*S. marinus*)

<u>1957</u>				
3Ps	OT	Oct	-	5
<u>1958</u>				
3N	OT	Nov	-	2
3Ps	OT	Oct	-	34
<u>1959</u>				
3N	OT	Jul	-	71

Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read
<u>1959</u>				
30	OT	May	-	2
3Ps	OT	Jan	-	10
4R	OT	Aug	-	20
4R,S	OT	Aug	-	28
4S	OT	Jul	-	1
<u>1962</u>				
3N	OT	Sep	-	7
30	OT	May	-	1
<u>1963</u>				
3Ps	OT	Mar	-	8
<u>1965</u>				
3P	OT	Mar	-	31

## AMERICAN PLAICE (COMMERCIAL)

<u>1953</u>				
3L	OT	May	82	-
		Jun	78	-
		Jul	8	-
		Nov	9	-
3N	OT	Jan	5	-
		May	11	-
		Aug	59	-
		Sep	71	-
		Oct	41	-
		Nov	52	-
30	OT	Apr	12	-
<u>1954</u>				
3L	OT	Jun	10	-
		Jul	39	-
		Aug	25	-
		Sep	10	-
		Nov	10	-

Year and Div	Gear	Month	No. of Otoliths		Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read				Ages Read	Ages Not Read
AMERICAN PLAICE (COMMERCIAL) (Cont'd)									
<u>1954</u>					<u>1956</u>				
3N	OT	May	11	-	3P	OT	Feb	11	-
		Sep	15	-	<u>1957</u>				
		Oct	27	-	3L	OT	May	15	-
		Nov	23	-			Jun	110	-
3P	OT	Feb	11	-			Jul	15	-
<u>1955</u>							Aug	58	-
3L	OT	Feb	14	-			Sep	20	-
		Mar	41	-			Oct	16	-
		Apr	20	-	3N	OT	Aug	14	-
		May	120	-			Sep	24	-
		Jun	150	-			Oct	130	-
		Aug	45	-			Nov	92	-
		Oct	11	-			Dec	82	-
		Nov	10	-	3P	OT	Feb	57	-
3N	OT	Jan	28	-	<u>1958</u>				
		Sep	14	-	3L	OT	Apr	39	-
		Oct	63	-			May	85	-
		Nov	22	-			Jun	64	-
		Dec	10	-			Jul	12	-
3P	OT	Apr	32	-			Aug	21	-
<u>1956</u>					3N	OT	Jan	54	-
3L	OT	Mar	8	-			Aug	71	-
		May	50	-			Sep	26	-
		Jun	55	-			Oct	24	-
		Jul	47	-			Nov	45	-
		Aug	133	-	<u>1959</u>				
		Sep	18	-	3L	OT	Mar	15	-
		Oct	40	-			May	91	-
		Nov	15	-			Jun	9	-
3N	OT	Aug	20	-			Aug	13	-
		Sep	74	-			Sep	45	-
		Oct	90	-			Nov	18	-
		Nov	30	-	3N	OT	May	9	-
		Dec	38	-			Jun	10	-
							Sep	12	-

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Year and Div	Gear	Month	No. of Otoliths		Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read				Ages Read	Ages Not Read
<b>AMERICAN PLAICE (COMMERCIAL) (Cont'd)</b>					<b>1962</b>				
<u>1959</u>					<u>3L</u>	OT	May	51	-
3N	OT	Oct	70	-			Jun	17	-
		Nov	183	-			Jul	21	-
		Dec	110	-			Sep	77	-
							Oct	67	-
							Nov	100	-
3P	OT	Mar	48	-	3N	OT	May	52	-
<u>1960</u>							Jun	98	-
3L	OT	Apr	14	-			Aug	105	-
		May	151	-			Sep	87	-
		Jun	81	-			Oct	87	-
		Jul	87	-			Nov	171	-
		Aug	64	-					
		Sep	77	-	<u>1963</u>				
		Oct	73	-	<u>3L</u>	OT	Apr	140	-
		Nov	10	-			May	126	-
		Dec	65	-			Jun	47	-
3N	OT	Jan	57	-			Sep	20	-
		Sep	72	-			Nov	56	-
		Oct	45	-	3N	OT	Jan	63	-
		Nov	106	-			Feb	107	-
		Dec	31	-			Mar	77	-
30	OT	Nov	16	-			Jul	21	-
							Aug	72	-
<u>1961</u>							Sep	104	-
3L	OT	May	47	-			Oct	152	-
		Jun	54	-			Nov	69	-
		Sep	80	-			Dec	46	-
		Nov	147	-	30	OT	Jun	25	-
3N	OT	Jan	27	-	<u>1964</u>				
		Jun	25	-	<u>3L</u>	OT	Apr	109	-
		Aug	100	-			May	139	-
		Sep	89	-			Jun	67	-
		Oct	109	-			Sep	25	-
		Nov	180	-			Oct	23	-
		Dec	17	-			Nov	44	-
3P	OT	Mar	21	-	3N	OT	Jan	51	-

Year and Div	Gear	Month	No. of Otoliths		Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read				Ages Read	Ages Not Read
<b>AMERICAN PLAICE (COMMERCIAL) (Cont'd)</b>					<b>1966</b>				
<u>1964</u>					<u>3N</u>	OT	Aug	105	-
3N	OT	Feb	90	-			Sep	250	-
		Mar	22	-			Oct	90	-
		Jun	43	-			Nov	171	-
		Jul	21	-	30	OT	Mar	199	-
		Aug	44	-					
		Sep	25	-	<u>1967</u>				
		Oct	116	-	<u>3L</u>	OT	Apr	55	-
		Nov	156	-			May	99	-
		Dec	109	-			Sep	308	-
							Nov	129	-
<u>1965</u>									
3L	OT	Apr	48	-	3N	OT	Jan	44	-
		May	141	-			Feb	59	-
		Jun	137	-			Mar	44	-
		Jul	20	-			Sep	47	-
		Sep	48	-					
		Nov	30	-	30	OT	Feb	45	-
							Mar	25	-
3N	OT	Jan	21	-			Apr	25	-
		Feb	46	-			Jun	35	-
		Mar	186	-					
		Apr	26	-	4Vs	OT	Mar	24	-
		May	179	-	<u>1968</u>				
		Jun	88	-	<u>3L</u>	OT	Jan	-	24
		Jul	89	-			Feb	-	23
		Aug	191	-			Mar	-	21
		Sep	155	-			Apr	-	61
		Nov	93	-			May	-	130
							Aug	-	29
30	OT	Feb	21	-			Nov	-	186
<u>1966</u>									
3L	OT	May	145	-	3N	OT	Aug	-	27
		Jun	48	-			Sep	-	30
		Jul	16	-			Nov	-	26
		Oct	45	-					
					30	OT	Mar	-	22
3N	OT	Jan	20	-	4Vs	OT	May	-	20
		Feb	92	-					
		Mar	97	-					
		May	21	-					
		Jun	85	-					
		Jul	101	-					

Year and Div	Gear	Month	No. of Otoliths		Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read				Ages Read	Ages Not Read
<b>WITCH (COMMERCIAL)</b>					<b>1956</b>				
<u>1954</u>					30	OT	Nov	-	16
3L,N,0	OT	Apr	-	38	3P	OT	Jan	-	13
		May	-	20		DS	May	-	11
3N	OT	May	-	10			Jan	-	42
3N,0	OT	Jan	-	10			Feb	-	62
		Mar	-	20			May	-	10
		Apr	-	42	4R	OT	Aug	-	15
30	OT	Jan	-	19		DS	May	-	8
		Mar	-	82			Jun	-	10
		Apr	-	44			Jul	-	25
3P	DS	Jan	-	84	<u>1957</u>				
		Feb	-	42	30	OT	Jan	-	14
		Mar	-	21			Apr	-	16
		Apr	-	11	4R	DS	Jun	-	36
		Jun	-	22			Jul	-	75
		Jul	-	56	<u>1958</u>				
		Aug	-	11	3Ps	OT	Jan	-	13
		Nov	-	14	<u>1960</u>				
<u>1955</u>					3N	OT	May	-	12
3N	OT	Nov	-	11	30	OT	Mar	-	16
3N,0	OT	Feb	-	16	<u>1968</u>				
30	OT	Feb	-	17	30	OT	Feb	-	32
3P	DS	Jan	-	49	3Ps	OT	Feb	-	17
		Feb	-	37	4Vs	OT	Mar	-	23
		Jun	-	11					
		Jul	-	32					
		Aug	-	32					
		Oct	-	29					
		Nov	-	14					
		Dec	-	12					
3P,4V	OT	Apr	-	11	<b>YELLOWTAIL (COMMERCIAL)</b>				
<u>1956</u>					<u>1965</u>				
3N,0	OT	Nov	-	13	3N	OT	Feb	21	-
							Feb-Mar	22	-
							Mar	101	-
							Sep	18	-
							Oct	24	-



Year and Div	Gear	Month	No. of Otoliths		Year and Div	Gear	Month	No. of Otoliths	
			Ages Read	Ages Not Read				Ages Read	Ages Not Read
YELLOWTAIL (COMMERCIAL) (Cont'd)					1967				
1965					3L	OT	Sep	47	-
3N	OT	Nov	96	-	3N	OT	Jan	114	-
		Dec	44	-			Jan-Feb	22	-
							Feb	45	-
1966							Mar	107	-
3N	OT	Mar	62	-			Sep	25	-
		May	22	-					
		Oct	52	-	1968				
		Nov	21	-	3N	OT	Sep	-	38
30	OT	May	38	-					

OT = Otter Trawl  
 LT = Line Trawl  
 LT = Trawl  
 DS = Danish Seine

Tr = Trap  
 Ji = Jigger  
 Ho = Hook

DENMARK (Faroes and Greenland)

Reported by: Sv. Aa. Horsted

Length measurements are made of the total length (end of tail lobes) and recorded to the centimetre below.

The following tables present data on measurements of capelin, Atlantic salmon and shrimp in Subarea 1 in 1968:

Number of measured capelin, *Mallotus villosus*, in 1968, West Greenland

1968	1A		1C	1D			1E	1F	1
	OT	LN	PN	OT	LN	Other	LN	LN	
January				82					82
May			x) 438	153	x) 1269	6	579	x) 556	x) 3001
June		x) 382			882				x) 1264
July	19	265		28					312
Total	19	x) 647	x) 438	263	x) 2151	6	579	x) 556	x) 4659

x) Figures are only provisional

OT = Otter Trawl (for prawn fishery)  
 LN = Landing net (scoop)  
 PN = Pound net

## Number of measured Atlantic Salmon in 1968, West Greenland.

Div.	B	D		E	F	Total
	Hooks	Gillnet	T-net	Gillnet	Gillnet	
August		24			11	35
September		237	11	65	65	378
October	11	252	15			278
November		22				22
Total	11	535	26	65	76	713

Samples of *Pandalus borealis* for measurements,  
West Greenland, 1968Gear used: Prawn trawl with mesh-sizes  
17 and 18 mm.

Months	Div	No. of Samples
March	F	2
April	F	1
May	D	2
July	A	1

FRANCE (St. Pierre et Miquelon)

Reported by: J. Morice

All species are measured as total length and recorded to the centimetre below for species greater than 20 centimetres.

GERMANY, FEDERAL REPUBLIC

Reported by: Arno Meyer

Length measurements are made of the total length (end of tail lobes) and recorded to the centimetre below.

ICELAND

Reported by: Jon Jónsson

Length measurements are taken from total length to nearest centimetre. (Board is offset 0.5 cm to permit reading to nearest cm.)

NORWAY

No data submitted.

POLAND

Reported by: F. Chrzan

Measurements are made of the total length to the nearest centimetre. The measuring board is offset 0.5 cm to permit measuring to the nearest centimetre.

PORTUGAL

Reported by: R. Monteiro

Length measurements are now made of the total length and recorded to the nearest centimetre.

ROMANIA

No data submitted.

SPAINReported by: A. Figueras  
M. Gomez

Length measurements are made of the total length (end of tail lobes) and recorded to the centimetre below.

UNION OF SOVIET SOCIALIST REPUBLICSReported by: P. A. Moiseev  
K. G. Konstantinov  
A. S. Noskov  
A. P. Senina  
V. A. Rikhter

Length measurements are made of the total length and recorded to the nearest centimetre.

UNITED KINGDOMReported by: D. J. Garrod  
B. C. Bedford

Measurements are made of the total length to the centimetre below.

## Editor's Note:

The following lists information submitted for the first time by the United Kingdom on age-length key data for cod sampled annually for 1964, 1967 and 1968. The keys are on file in the Secretariat.

Age-length keys for all of 1964 and 1967 (Divisions 4T, 4Vs and part of 4R) were sampled from catches aboard factory trawlers. Age-length keys for 1967 (Divisions 2H and 2J) and all of 1968 were sampled from landings at English markets. All age-length keys are prepared in 3 cm groups.

Gear: Otter Trawl (Commercial)  
Structures used in age determination: Otoliths

<u>Year</u>	<u>Division</u>	<u>Quarters</u>	<u>No. of Fish</u>
1964	3K	1st	10
	3L	1st, 2nd, 3rd, 4th	301
	3M	3rd, 4th	81
	3N	4th	5
	3O	1st	28
	3P	1st, 2nd, 3rd, 4th	224
1967	2H	1st, 2nd	15
	2J	1st	29
	4R	1st	51
	4T	1st	6
	4Vs	4th	6
1968	1D	2nd	57
	1E	2nd	26
	1F	3rd, 4th	82
	2J	1st	100
	3L	1st	35

(Samples from ships reported fishing in more than one region with catches not separated):

1968	1D, 1C )	All combined	101
	1D, 1E )		
	1D, 1E, 1F )		

UNITED STATES

Reported by: F. A. Dreyer  
W. H. Callahan  
R. L. Schultz

The length frequency samples measurements were made of the fork length to the nearest centimetre for haddock and to the nearest millimetre for redfish. For scale and otolith samples, measurements are made of the fork length to the nearest millimetre for both haddock and redfish.

Tables Nos. 118-137 inclusive present length and age data for red hake and silver hake flounder stocks sampled during the years 1962 to 1966 inclusive.

Length data for sea scallops sampled during each month for 1968 for ICNAF Divisions 5Z, 6A, and for January, February, March, April, May, November and December in Division 6B have been submitted and are on file in the Secretariat.

TABLE 1 LENGTH FREQUENCIES - COD - 1C - 1968

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Round Net
CATCHES/LANDINGS	(Research)
MONTH	NK
COUNTRY	August
TONNAGE	Denmark (Greenland)
	<50
27	14
30	24
33	92
36	279
39	304
42	140
45	42
48	22
51	18
54	19
57	14
60	9
63	7
66	4
69	7
72	1
75	-
78	3
81	-
84	-
87	-
90	-
93	-
96	-
99	1
Total ‰	1000
Serial Numbers	-
Number of Samples	-
Number of Fish Measured	412
Mean Length (cm)	40.8
Mean Weight (kg)	-
Total Weight Landed (tons)	34.5
Estimated Number Landed	-
Mesh(mm) or Hook(no.) Size	-
Range of Depths (fm)	-

TABLE 2 LENGTH FREQUENCIES - COD - 1D - 1968

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl					Prawn Trawl	Pound Net	
	(Research)	(Commercial)					(Research)	
CATCHES/LANDINGS	NK	Landings					NK	
MONTH	January	April	April	May	May	January	May	June
COUNTRY	Denmark (G)	United Kingdom				Denmark (Greenland)		
TONNAGE	<50	901-1800	501-900	901-1800	501-900	<50		
12	-	-	-	-	-	9	-	-
15	-	-	-	-	-	178	-	-
18	-	-	-	-	-	299	-	-
21	-	-	-	-	-	140	-	-
24	-	-	-	-	-	56	-	9
27	-	-	-	-	-	93	2	12
30	6	-	-	-	-	140	20	50
33	47	-	-	-	-	37	65	194
36	53	-	-	-	-	19	217	249
39	89	6	-	-	0	19	301	211
42	112	26	-	3	9	-	203	144
45	142	115	6	15	26	9	134	100
48	166	167	59	43	68	-	58	18
51	160	173	100	54	99	-	-	6
54	89	212	138	106	106	-	-	3
57	41	109	98	119	111	-	-	6
60	41	103	212	161	137	-	-	-
63	30	32	133	128	124	-	-	-
66	-	38	150	136	100	-	-	-
69	12	6	40	87	79	-	-	-
72	6	13	35	67	65	-	-	-
75	-	-	20	36	38	-	-	-
78	-	-	4	26	22	-	-	-
81	-	-	-	9	6	-	-	-
84	-	-	3	6	7	-	-	-
87	6	-	3	1	2	-	-	-
90	-	-	-	1	2	-	-	-
93	-	-	-	2	0	-	-	-
96	-	-	-	-	1	-	-	-
99	-	-	-	1	-	-	-	-
Total ‰	1000	1000	1001	1001	1002	999	1000	1002
Serial Numbers	-	-	-	-	-	-	-	-
Number of Samples	-	1	1	1	7	-	-	-
Number of Fish Measured	169	156	363	755	2116	107	448	341
Mean Length (cm)	48.6	-	-	-	-	23.3	40.7	38.8
Mean Weight (kg)	-	-	-	-	-	-	-	-
Total Weight Landed (tons)	-	995.4 <sup>1</sup>	154.1 <sup>1</sup>	1724.7 <sup>1</sup>	744.7 <sup>1</sup>	-	-	-
Estimated Number Landed	-	815108	91557	888280	423800	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	-	-	-	-	-	-
Range of Depths (fm)	110	-	-	-	-	121-143	-	-

<sup>1</sup> gutted weight

TABLE 3 LENGTH FREQUENCIES - COD - 1E - 1968

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)		
	Landings		
CATCHES/LANDINGS	April	May	June
MONTH	United Kingdom		
COUNTRY	901-1800	501-900	901-1800
TONNAGE			
39	-	-	2
42	4	32	4
45	17	89	26
48	77	179	68
51	124	189	121
54	129	102	114
57	114	89	80
60	74	87	165
63	67	52	78
66	85	58	86
69	69	48	49
72	44	29	29
75	70	19	65
78	33	9	34
81	22	10	25
84	19	6	4
87	22	1	22
90	7	-	11
93	7	-	7
96	4	1	4
99	4	-	4
102	4	-	-
105	4	-	-
Total ‰	1000	1000	1001
Serial Numbers	-	-	-
Number of Samples	1	1	1
Number of Fish Measured	250	338	341
Mean Length (cm)	-	-	-
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	772.4	217.4	1499.3
Estimated Number Landed	391017 <sup>1</sup>	157053 <sup>1</sup>	791649 <sup>1</sup>
Mesh(mm) or Hook(no.) Size	-	-	-
Range of Depths (fm)	-	-	-

<sup>1</sup> gutted weight

TABLE 4 LENGTH FREQUENCIES - COD - 1F - 1968

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl		
	(Commercial)		
CATCHES/LANDINGS	Landings		
MONTH	September	October	November
COUNTRY	United Kingdom		
TONNAGE	501-900		
45	5	27	15
48	20	34	46
51	64	76	116
54	82	153	95
57	82	126	129
60	93	134	120
63	111	100	74
66	146	69	89
69	123	88	126
72	71	73	81
75	89	69	61
78	67	42	24
81	10	4	24
84	12	4	-
87	15	-	-
90	5	-	-
93	-	-	-
96	5	-	-
Total ‰	1000	999	1000
Serial Numbers	-	-	-
Number of Samples	1	1	1
Number of Fish Measured	257	261	258
Mean Length (cm)	-	-	-
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	120.6	126.7	159.8
Estimated Number Landed	57002 <sup>1</sup>	65074 <sup>1</sup>	80194 <sup>1</sup>
Mesh(mm) or Hook(no.) Size	-	-	-
Range of Depths (fm)	-	-	-

<sup>1</sup> gutted weight



TABLE 5

LENGTH FREQUENCIES - COD - 2G - 1968

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Norwegian Jigger
CATCHES/LANDINGS	(Research)
MONTH	August
COUNTRY	Canada (Newfoundland)
TONNAGE	Small Boat
39	2
42	27
45	43
48	74
51	120
54	165
57	175
60	191
63	87
66	59
69	32
72	18
75	3
78	2
81	-
84	-
87	2
Total ‰	1000
Serial Numbers	-
Number of Samples	1
Number of Fish Measured	623
Mean Length (cm)	57.58
Mean Weight (kg)	1.71
Total Weight Landed (tons)	-
Estimated Number Landed	-
Mesh(mm) or Hook(no.) Size	-
Range of Depths (fm)	3-8

TABLE 6 LENGTH FREQUENCIES - COD - 2H - 1968

(FREQUENCIES IN %/oo - 3 CM GROUPS)

GEAR	Otter Trawl		Trap	Norwegian Jigger
	(Commercial)		(Research)	
CATCHES/LANDINGS	Landings	Catches	Landings Before Discard	Catches
MONTH	October	January	August	August
COUNTRY	United Kingdom	USSR	Canada (Newfoundland)	
TONNAGE	901-1800	3600	Small Boat	
27	-	1	-	-
30	-	-	-	-
33	2	2	1	-
36	13	15	1	-
39	49	25	9	-
42	166	76	19	1
45	210	95	27	4
48	190	105	38	11
51	142	128	44	9
54	95	173	100	67
57	59	124	169	131
60	34	90	188	202
63	21	69	170	215
66	8	30	118	166
69	5	20	70	118
72	4	21	28	50
75	2	12	9	16
78	1	8	8	7
81	-	3	1	4
84	0	2	-	1
87	-	1	-	-
90	-	-	-	-
93	-	-	-	-
96	-	-	-	-
99	-	-	-	-
102	-	-	1	-
Total %/oo	1001	1000	1001	1002
Serial Numbers	-	-	-	-
Number of Samples	1	-	6	5
Number of Fish Measured	1252	1280	1583	764
Mean Length (cm)	-	54.67	60.58	63.68
Mean Weight (kg)	-	-	1.93	2.32
Total Weight Landed (tons)	270.8 <sup>1</sup>	10995	-	-
Estimated Number Landed	262852	-	-	-
Mesh(mm) or Hook(no.) Size	-	110	3 1/2-4 <sup>2</sup>	-
Range of Depths (fm)	-	138-195	8-12	3-7

<sup>1</sup> gutted weight  
<sup>2</sup> inches, cotton

TABLE 7 LENGTH FREQUENCIES - COD - 2J - 1968

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl					Trap	Gillnet	
	(Commercial)							
CATCHES/LANDINGS	Catches	Landings		Landings <sup>1</sup>	Landings	Landings Before Discard		
MONTH	October	January	February	March	October	July	August	August
COUNTRY	Poland	United Kingdom		Can (N)	United Kingdom	Canada (Newfoundland)		
TONNAGE	2799	901-1800		501-900	901-1800	Small Boat		
30	9	-	-	-	-	-	-	-
33	20	-	-	-	-	-	4	-
36	27	-	-	-	5	1	5	-
39	52	4	4	12	45	8	23	-
42	78	13	31	37	128	33	96	-
45	107	66	106	61	160	68	125	-
48	111	137	166	95	192	90	150	-
51	90	199	161	126	138	93	118	1
54	94	203	209	135	124	109	107	3
57	105	179	119	147	87	121	93	4
60	101	120	87	123	61	136	98	34
63	87	56	51	107	33	108	80	75
66	54	12	23	61	14	96	59	98
69	38	4	15	67	5	61	18	111
72	11	3	9	12	4	40	13	128
75	9	3	6	9	4	19	5	116
78	3	1	5	3	1	9	2	89
81	1	0	1	-	-	6	2	66
84	1	0	3	3	-	1	2	44
87	1	0	2	-	-	1	2	48
90	1	-	1	-	-	1	-	41
93	-	0	0	-	-	-	-	35
96	-	-	0	-	-	-	-	25
99	-	-	1	-	-	-	-	34
102	-	-	-	-	-	-	-	12
105	-	-	0	-	-	-	-	16
108	-	0	-	-	-	-	-	17
111	-	-	-	-	-	-	-	1
114	-	-	-	-	-	-	-	-
117	-	-	-	-	-	-	-	3
120	-	-	-	-	-	-	-	1
123	-	-	-	-	-	-	-	1
126	-	-	-	-	-	-	-	1
Total ‰	1000	1000	1000	998	1001	1001	1002	1004
Serial Numbers	-	-	-	-	-	-	-	-
Number of Samples	1	2	3	1	1	7	3	14
Number of Fish Measured	1270	473	1634	326	773	2186	561	776
Mean Length (cm)	53.8	-	-	57.347	-	58.83	54.05	78.38
Mean Weight (kg)	-	-	-	1.807	-	2.44	1.70	5.04
Total Weight Landed (tons)	-	3095.3 <sup>2</sup>	1908.9 <sup>2</sup>	728.8	575.3 <sup>2</sup>	-	-	-
Estimated Number Landed	-	2251162	1446627	403320	501513	-	-	-
Mesh(mm) or Hook(no.) Size	114	-	-	Large	-	3 1/2-4 <sup>3</sup>	3 1/2-4 <sup>3</sup>	5-7 <sup>4</sup>
Range of Depths (fm)	110-165	-	-	-	-	3-6	10-10 1/2	3-60

<sup>1</sup> Landings after discard  
<sup>2</sup> gutted weight

<sup>3</sup> inches, cotton  
<sup>4</sup> inches

TABLE 8 LENGTH FREQUENCIES - COD - 3K - 1968

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl							
	(Commercial)						(Research)	
CATCHES/LANDINGS	Landings						Catches	
MONTH	January	February	March	April	May	June	July	August
COUNTRY	United Kingdom						USSR	
TONNAGE	901-1800						1200	
15	-	-	-	-	-	-	-	1
18	-	-	-	-	-	-	1	1
21	-	-	-	-	-	-	-	1
24	-	-	-	-	-	-	-	2
27	-	-	-	-	-	-	-	5
30	-	-	-	-	-	-	1	9
33	-	-	-	-	1	-	3	12
36	-	-	-	-	11	2	13	14
39	-	5	5	7	45	11	31	41
42	9	35	63	38	133	62	50	77
45	73	129	117	124	174	113	83	116
48	166	207	210	193	167	155	115	115
51	239	122	200	117	112	109	96	94
54	178	152	122	128	95	69	105	99
57	128	124	102	76	86	56	85	73
60	90	71	112	96	66	61	109	86
63	59	69	44	76	37	64	96	70
66	27	40	20	65	26	58	74	50
69	5	26	5	22	18	48	54	41
72	3	11	-	25	10	58	34	29
75	6	2	-	22	4	39	21	16
78	3	4	-	4	4	27	15	12
81	3	1	-	4	2	17	3	5
84	4	1	-	-	2	16	5	4
87	-	0	-	4	1	7	2	4
90	3	0	-	-	1	8	2	5
93	3	0	-	-	1	5	-	3
96	2	0	-	-	0	4	1	3
99	1	0	-	-	1	3	-	3
102	1	0	-	-	1	2	-	2
105	-	-	-	-	-	2	1	2
108	-	-	-	-	-	2	-	1
111	-	-	-	-	-	-	-	1
114	-	-	-	-	-	2	-	1
117	-	0	-	-	0	-	-	1
120	-	0	-	-	-	1	-	-
123	-	-	-	-	-	-	-	1
Total ‰	1003	999	1000	1001	998	1001	1000	1000
Serial Numbers	-	-	-	-	-	-	-	-
Number of Samples	2	1	1	1	1	1	-	-
Number of Fish Measured	477	586	205	286	1586	1414	1907	6180
Mean Length (cm)	-	-	-	-	-	-	57.15	55.62
Mean Weight (kg)	-	-	-	-	-	-	-	-
Total Weight Landed (tons)	3338.5 <sup>1</sup>	1628.2 <sup>1</sup>	1059.0 <sup>1</sup>	474.2 <sup>1</sup>	639.7 <sup>1</sup>	1551.8 <sup>1</sup>	1686	957
Estimated Number Landed	2330122	1229768	854683	352697	577673	842630	-	-
Mesh(mm) or Hook(no.) Size	-	-	-	-	-	-	110	110
Range of Depths (fm)	-	-	-	-	-	-	135-205	114-186

<sup>1</sup> gutted weight

TABLE 8  
(Cont'd)

LENGTH FREQUENCIES - COD - 3K - 1968

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Long Line		Hand Line		Trap		Gillnet		
	(Commercial)								
CATCHES/LANDINGS	Landings Before Discard								
MONTH	June	July	June	September	June	July	June	July	September
COUNTRY	Canada (Newfoundland)								
TONNAGE	Small Boat								
30	-	-	-	1	-	3	-	-	-
33	1	-	10	3	10	15	-	-	-
36	1	-	41	12	42	62	-	-	-
39	4	-	92	24	118	109	-	-	-
42	11	3	167	54	187	153	1	-	11
45	19	8	192	81	211	164	2	-	6
48	31	17	175	110	172	129	2	11	-
51	46	37	118	122	106	93	5	43	-
54	74	68	91	110	60	58	5	-	-
57	107	101	50	91	39	61	10	43	17
60	126	124	33	75	22	49	6	32	17
63	134	155	20	67	14	36	14	-	23
66	118	137	6	54	9	26	28	11	40
69	96	114	5	42	5	20	64	43	40
72	72	75	2	33	3	11	94	11	91
75	56	52	-	28	2	7	119	32	80
78	37	34	1	24	1	3	109	97	74
81	19	24	-	21	-	1	87	54	91
84	10	16	-	10	-	-	78	118	114
87	9	10	-	10	-	-	83	140	68
90	5	5	-	5	-	-	62	108	74
93	8	2	-	6	-	-	53	54	63
96	5	3	-	5	-	-	51	65	63
99	3	2	-	5	-	-	29	11	68
102	3	4	-	3	-	-	30	65	17
105	2	2	-	2	-	-	23	11	17
108	1	2	-	1	-	-	19	54	6
111	1	1	-	-	-	-	11	-	6
114	1	1	-	-	-	-	9	-	17
117	1	1	-	1	-	-	1	-	-
120	1	1	-	-	-	-	4	-	-
123	-	1	-	-	-	-	-	-	-
126	1	-	-	-	-	-	-	-	-
129	-	-	-	-	-	-	-	-	-
132	-	-	-	-	-	-	-	-	-
135	-	-	-	-	-	-	-	1	-
Total ‰	1003	1000	1003	1000	1001	1000	1000	1003	1003
Serial Numbers	-	-	-	-	-	-	-	-	-
Number of Samples	6	6	3	14	17	13	19	2	6
Number of Fish Measured	2029	1778	1507	2021	6249	4473	1248	93	176
Mean Length (cm)	65.20	66.35	48.27	58.68	47.43	49.39	83.65	84.42	83.57
Mean Weight (kg)	2.75	2.83	1.09	2.13	1.02	1.27	5.59	6.29	5.75
Total Weight Landed (tons)	-	-	-	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	6-0	6-0	3020&21	3020&21	3 1/2-4 <sup>1</sup>	3 1/2-4 <sup>1</sup>	6 1/2-7 <sup>2</sup>	6 1/2-7 <sup>2</sup>	6 1/2-7 <sup>2</sup>
Range of Depths (fm)	150-200	110-200	3-10	4-15	10-20	8 1/2-16	25-60	35-45	20-60

<sup>1</sup> inches, cotton  
<sup>2</sup> inches

TABLE 9

LENGTH FREQUENCIES - COD - 3L - 1968

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)					
	Landings After Discard			Landings		
CATCHES/LANDINGS	January	March	March	March	April	June
MONTH	Canada (Newfoundland)			United Kingdom		
COUNTRY	151-500			901-1800		
TONNAGE	151-500			901-1800		
33	-	2	-	6	-	-
36	-	-	-	17	-	7
39	7	33	14	131	38	36
42	56	51	41	285	279	147
45	140	110	117	226	276	180
48	245	148	135	148	175	215
51	91	112	72	106	114	133
54	63	79	81	42	60	86
57	63	70	77	15	19	59
60	84	66	54	10	25	53
63	77	90	59	5	10	29
66	70	62	54	5	3	19
69	21	53	68	2	-	12
72	14	33	45	1	-	7
75	21	26	36	0	-	6
78	-	22	54	0	-	3
81	14	13	18	0	-	1
84	7	7	18	0	-	1
87	-	9	23	0	-	1
90	7	2	9	0	-	1
93	14	4	9	0	-	0
96	-	-	5	0	-	0
99	-	2	5	0	-	1
102	-	2	-	0	-	-
105	7	-	5	0	-	-
108	-	-	5	-	-	-
111	-	-	-	-	-	-
114	-	-	-	-	-	-
117	-	-	-	0	-	-
120	-	-	-	0	-	1
123	-	2	-	-	-	-
Total ‰	1001	998	1004	999	999	998
Serial Numbers	-	-	-	-	-	-
Number of Samples	1	1	2	2	1	1
Number of Fish Measured	143	454	222	671	315	1350
Mean Length (cm)	56.196	57.722	61.149	-	-	-
Mean Weight (kg)	1.880	1.966	2.420	-	-	-
Total Weight Landed (tons)	144.5	250.3	676.8	1545.9 <sup>1</sup>	1677.1 <sup>1</sup>	910.5 <sup>1</sup>
Estimated Number Landed	76862	127314	279669	1635240	1733240	821526
Mesh(mm) or Hook(no.) Size	Large	-	-	-	-	-
Range of Depths (fm)	110-125	-	110-141	-	-	-

<sup>1</sup> gutted weight

TABLE 9  
(Cont'd)

LENGTH FREQUENCIES - COD - 3L - 1968

(FREQUENCIES IN % - 3 CM GROUPS)

GEAR	Otter Trawl					
	(Commercial)				(Research)	
	Landings <sup>1</sup>	Landings	Landings After Discard		Catches	
MONTH	September	October	November	November	May	August
COUNTRY	Canada (N)	United Kingdom	Canada (N)	France (St. P&O)	USSR	
TONNAGE	501-900	901-1800	501-900	151-500	3600	1200
18	-	-	-	-	-	1
21	-	-	-	-	-	2
24	-	-	-	-	2	4
27	-	-	-	-	1	8
30	-	-	-	-	7	20
33	-	-	4	-	11	45
36	-	-	8	19	76	55
39	1	1	23	62	181	85
42	8	4	53	118	227	117
45	50	41	79	154	188	150
48	120	131	155	176	135	118
51	158	209	151	140	69	86
54	124	177	98	106	27	68
57	103	119	57	45	18	49
60	89	87	34	26	30	51
63	59	86	23	22	13	37
66	65	64	19	5	4	33
69	76	41	11	12	6	23
72	43	24	8	12	3	16
75	44	8	26	17	2	13
78	19	4	19	9	-	7
81	10	2	19	10	-	4
84	9	-	11	12	-	2
87	5	-	23	3	-	1
90	-	0	34	14	-	2
93	3	1	30	5	-	1
96	2	0	23	7	-	1
99	5	0	26	7	-	-
102	1	0	19	2	-	-
105	-	-	8	2	-	1
108	-	-	19	5	-	-
111	-	-	23	5	-	-
114	1	-	-	2	-	-
117	1	-	-	-	-	-
120	-	-	-	2	-	-
123	1	-	-	3	-	-
Total %/oo	997	999	1003	1000	1000	1000
Serial Numbers	-	-	-	-	-	-
Number of Samples	2	1	1	1	-	-
Number of Fish Measured	877	1779	265	580	2047	6712
Mean Length (cm)	60.131	-	63.570	-	45.66	49.80
Mean Weight (kg)	2.161	-	3.005	1.63	-	-
Total Weight Landed (tons)	1004.6	146.3	1026.6 <sup>2</sup>	-	1642	284
Estimated Number Landed	464877	87045	341631	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	-	4 1/2 <sup>3</sup>	110	110
Range of Depths (fm)	28-36	-	95-100	75-110	114-130	37-173

- 1 Landings After Discards  
2 gutted weight  
3 inches

TABLE 9  
(Cont'd)

LENGTH FREQUENCIES - COD - 3L - 1968

(FREQUENCIES IN ‰ - 3CM GROUPS)

GEAR	Long Line		Hand Line (Commercial)		Trap	
	Landings After Discard					
CATCHES/LANDINGS						
MONTH	July	September	July	September	June	July
COUNTRY	Canada (Newfoundland)					
TONNAGE	Small Boats					
30	-	-	-	-	-	1
33	-	-	4	4	-	7
36	-	2	18	12	8	30
39	1	8	63	44	32	111
42	5	20	96	81	85	177
45	25	63	133	163	95	224
48	27	70	136	156	104	159
51	40	77	111	131	192	92
54	71	98	81	95	140	60
57	72	101	74	89	87	51
60	77	98	71	61	78	38
63	78	94	57	46	61	25
66	83	102	50	44	45	13
69	65	78	35	29	36	6
72	48	61	28	20	21	4
75	58	48	17	14	11	3
78	42	29	8	4	3	-
81	42	16	9	4	2	-
84	48	8	3	1	1	-
87	35	11	1	-	-	-
90	35	3	2	1	-	-
93	36	1	2	-	-	-
96	24	4	1	-	-	-
99	20	3	-	-	-	-
102	17	3	1	-	-	-
105	15	2	1	-	-	-
108	14	-	-	-	-	-
111	8	1	-	-	-	-
114	5	1	-	-	-	-
117	3	-	-	-	-	-
120	-	-	-	-	-	-
123	1	-	-	-	-	-
126	2	-	-	-	-	-
129	1	-	-	-	-	-
132	-	-	-	-	-	-
135	1	-	-	-	-	-
138	-	-	-	-	-	-
141	1	-	-	-	-	-
Total ‰	1000	1002	1002	999	1001	1001
Serial Numbers	-	-	-	-	-	-
Number of Samples	6	5	7	6	5	18
Number of Fish Measured	1460	1102	1899	2047	1675	5090
Mean Length (cm)	72.778	62.105	54.093	53.233	54.405	48.250
Mean Weight (kg)	3.995	2.365	1.575	1.471	1.580	1.117
Total Weight Landed (tons)	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	6/0	6/0	3020,3021	3020,3021	3 1/2-10 <sup>1</sup>	3 1/2-10 <sup>1</sup>
Range of Depths (fm)	100-140	125-180	5-14	10-22	7-12	9-14

<sup>1</sup> inches



TABLE 9  
(Cont'd)

LENGTH FREQUENCIES - COD - 3L - 1968

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Gillnet (Commercial)			
	Landings After Discard			
CATCHES/LANDINGS	March	June	August	October
MONTH	March	June	August	October
COUNTRY	Canada (Newfoundland)			
TONNAGE	Small Boats			
36	-	1	-	1
39	1	1	7	1
42	2	7	8	6
45	-	7	26	8
48	4	16	46	13
51	1	26	43	12
54	3	28	39	13
57	14	33	47	10
60	36	38	39	17
63	104	80	55	22
66	159	98	75	56
69	212	127	146	101
72	161	124	142	146
75	106	108	120	155
78	70	76	71	123
81	39	57	51	93
84	30	45	36	56
87	20	26	11	44
90	11	19	9	22
93	12	14	6	15
96	4	14	8	26
99	8	15	5	9
102	1	8	-	16
105	-	10	5	7
108	1	6	1	12
111	1	5	1	3
114	-	4	1	1
117	-	3	-	2
120	-	2	-	2
123	-	-	1	-
126	1	-	2	1
129	-	-	1	1
132	-	-	-	1
Total ‰	1001	998	1002	995
Serial Numbers	-	-	-	-
Number of Samples	3	12	5	8
Number of Fish Measured	1036	2286	1038	978
Mean Length (cm)	72.224	73.513	69.483	77.163
Mean Weight (kg)	3.464	3.800	3.264	4.377
Total Weight Landed (tons)	-	-	-	-
Estimated Number Landed	-	-	-	-
Mesh(mm) or Hook(no.) Size	6 1/2-7 <sup>1</sup>	6 1/2-7 <sup>1</sup>	6 1/2-7 <sup>1</sup>	6 1/2-7 <sup>1</sup>
Range of Depths (fm)	95	22-50	-	25-45

<sup>1</sup> inches

TABLE 10 LENGTH FREQUENCIES - COD - 3N - 1968

(FREQUENCIES IN  $\circ/oo$  - 3 CM GROUPS)

GEAR	Otter Trawl	
	(Research)	
CATCHES/LANDINGS	Catches	
MONTH	May	July
COUNTRY	USSR	
TONNAGE	3600	1200
18	-	1
21	3	1
24	6	16
27	12	140
30	20	394
33	15	21
36	38	68
39	110	34
42	119	32
45	168	32
48	141	20
51	101	22
54	54	10
57	42	6
60	67	2
63	23	3
66	23	2
69	24	1
72	10	1
75	8	-
78	8	-
81	3	-
84	3	-
87	1	-
90	1	-
Total $\circ/oo$	1000	1000
Serial Numbers	-	-
Number of Samples	-	-
Number of Fish Measured	4833	2600
Mean Length (cm)	49.36	34.27
Mean Weight (kg)	-	-
Total Weight Landed (tons)	39520	92026
Estimated Number Landed	-	-
Mesh(mm) or Hook(no.) Size	110	110
Range of Depths (fm)	68-162	29-151

TABLE 11 LENGTH FREQUENCIES - COD - 30 - 1968

(FREQUENCIES IN  $\circ/\circ\circ$  - 3 CM GROUPS)

GEAR	Otter Trawl	
	(Commercial)	
CATCHES/LANDINGS	Landings After Discard	
MONTH	January	February
COUNTRY	Canada (Newfoundland)	
TONNAGE	501-900	151-500
33	5	-
36	-	-
39	11	13
42	85	60
45	127	175
48	190	222
51	111	158
54	74	115
57	90	73
60	95	43
63	37	51
66	48	26
69	26	26
72	26	17
75	26	9
78	11	13
81	11	-
84	5	-
87	5	-
90	5	-
93	-	-
96	-	-
99	11	-
Total $\circ/\circ\circ$	999	1001
Serial Numbers	-	-
Number of Samples	1	1
Number of Fish Measured	189	234
Mean Length (cm)	55.810	53.128
Mean Weight (kg)	1.203	1.267
Total Weight Landed (tons)	54.2	68.6
Estimated Number Landed	45054	54144
Mesh(mm) or Hook(no.) Size	-	Large
Range of Depths (fm)	90-110	70-120

TABLE 12 LENGTH FREQUENCIES - COD - 3Pn - 1968

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl	Long Line
	(Commercial)	
CATCHES/LANDINGS	Landings After Discard	Landings Before Discard
MONTH	February	March
COUNTRY	Canada (Newfoundland)	
TONNAGE	501-900	Small Boat
36	-	1
39	6	7
42	27	28
45	89	55
48	205	86
51	190	103
54	139	105
57	77	112
60	59	110
63	53	124
66	36	82
69	45	71
72	27	44
75	9	31
78	21	15
81	12	10
84	-	6
87	6	4
90	-	1
93	-	1
96	-	1
99	-	1
102	-	-
105	-	-
108	-	1
Total ‰	1001	999
Serial Numbers	-	-
Number of Samples	2	28
Number of Fish Measured	337	3983
Mean Length (cm)	55.837	60.01
Mean Weight (kg)	1.503	2.15
Total Weight Landed (tons)	79.9	-
Estimated Number Landed	53160	-
Mesh(mm) or Hook(no.) Size	-	6-0
Range of Depths (fm)	76-125	40-100

TABLE 13

LENGTH FREQUENCIES - COD - 3Ps - 1968

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl				Line Trawl
	(Commercial)				
CATCHES/LANDINGS	Landings After Discard				
	January	January	February	September	September
MONTH	Canada (Newfoundland)				
COUNTRY	501-900				Small Boats
TONNAGE	151-500				
30	-	-	-	-	1
33	-	-	2	-	2
36	-	-	-	-	10
39	15	23	2	1	25
42	60	65	42	15	47
45	179	139	150	44	89
48	204	241	211	102	108
51	139	153	175	144	114
54	129	130	118	113	118
57	60	83	72	92	90
60	60	42	55	72	88
63	15	32	44	65	84
66	65	46	47	72	69
69	15	19	36	78	51
72	30	5	23	54	36
75	15	9	8	46	22
78	-	5	9	30	18
81	5	-	2	14	11
84	5	5	4	8	5
87	5	-	-	8	6
90	-	5	-	4	2
93	-	-	-	7	1
96	-	-	-	7	2
99	-	-	-	7	1
102	-	-	-	4	-
105	-	-	-	2	-
108	-	-	-	-	-
111	-	-	-	4	1
114	-	-	-	1	-
117	-	-	-	2	-
120	-	-	-	1	-
123	-	-	-	1	-
Total ‰	1001	1002	1000	998	1001
Serial Numbers	-	-	-	-	-
Number of Samples	1	1	3	3	9
Number of Fish Measured	201	216	526	1391	2837
Mean Length (cm)	53.776	53.042	54.304	62.201	57.720
Mean Weight (kg)	1.003	1.435	1.457	2.538	2.025
Total Weight Landed (tons)	709.2	837.4	1188.8	188.0	-
Estimated Number Landed	707079	583554	815923	74074	-
Mesh(mm) or Hook(no.) Size	Large	Large	Large	-	15,16,6-0
Range of Depths (fm)	80-90	90-100	76-125	-	15-45

TABLE 13 LENGTH FREQUENCIES - COD - 3Ps - 1968  
(Cont'd)

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Trap		Gillnet			
	(Commercial)					
CATCHES/LANDINGS	Landings After Discard					
MONTH	June	July	April	May	June	July
COUNTRY	Canada (Newfoundland)					
TONNAGE	Small Boats					
27	1	1	-	-	-	-
30	8	25	-	-	-	-
33	66	83	-	-	-	1
36	143	130	7	-	5	1
39	189	176	21	1	4	2
42	195	173	21	9	9	4
45	147	137	29	17	13	2
48	119	103	14	11	13	5
51	58	67	21	14	7	8
54	35	42	-	11	15	15
57	22	27	14	30	34	39
60	7	16	7	59	56	81
63	5	8	57	135	135	135
66	2	5	121	154	165	198
69	1	2	143	150	158	144
72	-	-	93	127	117	124
75	-	1	86	103	120	86
78	1	3	93	60	41	65
81	-	-	64	42	34	39
84	-	-	21	23	23	19
87	-	-	57	17	15	10
90	-	-	36	15	8	6
93	-	-	21	6	8	5
96	-	-	43	4	6	2
99	-	-	7	4	6	3
102	-	-	14	4	4	3
105	-	-	7	-	-	1
108	-	-	-	3	-	1
111	-	-	-	1	2	1
114	-	-	-	1	-	-
117	-	-	-	-	4	-
120	-	-	-	-	-	-
123	-	-	-	-	-	-
126	-	-	-	-	-	1
129	-	-	-	1	-	-
Total ‰	999	999	997	1002	1002	1001
Serial Numbers	-	-	-	-	-	-
Number of Samples	3	8	1	9	4	4
Number of Fish Measured	1458	4049	140	1509	857	1835
Mean Length (cm)	43.646	43.962	73.343	70.191	69.891	69.660
Mean Weight (kg)	0.854	0.881	3.755	3.369	3.242	2.783
Total Weight Landed (tons)	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	4 <sup>1</sup>	4 <sup>1</sup>	6 1/2-7 <sup>1</sup>	6-7 <sup>1</sup>	6-7 <sup>1</sup>	6-7 <sup>11</sup>
Range of Depths (fm)	12-12.5	12-17.5	20-60	20-70	15-65	15-65

<sup>1</sup> inches

TABLE 14 LENGTH FREQUENCIES - COD - 4R - 1968

(FREQUENCIES IN % - 3 CM GROUPS)

GEAR	Otter Trawl			Trap	Gillnet			
	Landings After Discard			Landings	Landings Before Discard			
CATCHES/LANDINGS				(Commercial)				
MONTH	February	March	June	June	June	July	September	October
COUNTRY	Canada (Newfoundland)		Canada(M)	Canada (Newfoundland)				
TONNAGE	501-900			Small Boats				
30	-	-	-	11	-	-	-	-
33	-	-	-	46	-	-	-	-
36	-	-	-	79	-	-	-	1
39	-	-	20	163	1	2	-	1
42	-	-	68	229	1	-	3	5
45	52	-	65	177	1	1	3	5
48	110	5	99	122	3	2	4	10
51	110	23	142	79	2	5	12	12
54	122	68	92	41	4	3	15	15
57	180	77	101	20	4	5	9	22
60	122	100	83	14	13	10	12	33
63	99	100	88	10	33	19	50	44
66	64	167	92	5	63	45	70	93
69	35	158	69	2	96	54	154	149
72	47	95	32	2	102	97	162	172
75	12	45	9	1	118	128	138	119
78	23	63	9	-	111	135	88	93
81	12	23	9	-	102	109	64	63
84	6	14	1	-	84	99	54	39
87	-	9	1	-	64	70	24	22
90	-	9	7	-	53	47	24	22
93	-	5	5	-	42	40	20	21
96	-	23	5	-	32	34	25	14
99	6	14	2	-	28	27	19	13
102	-	5	1	-	17	25	23	12
105	-	-	-	-	10	13	13	5
108	-	-	-	-	5	11	8	6
111	-	-	-	-	5	8	4	3
114	-	-	-	-	3	4	-	3
117	-	-	-	-	1	3	1	1
120	-	-	-	-	1	3	1	1
123	-	-	-	-	1	2	-	1
126	-	-	-	-	-	-	-	1
129	-	-	-	-	-	-	-	-
132	-	-	-	-	-	1	-	-
135	-	-	-	-	-	-	1	-
138	-	-	-	-	-	1	-	-
Total %/oo	1000	1003	1000	1001	1000	1003	1001	1001
Serial Numbers	-	-	29	-	-	-	-	-
Number of Samples	1	1	1	6	18	7	6	15
Number of Fish Measured	172	221	307	1883	4220	1326	754	2153
Mean Length (cm)	59.378	68.792	58.1	44.97	80.34	82.07	76.86	74.67
Mean Weight (kg)	1.562	2.951	1.76	0.84	4.95	5.41	4.40	4.16
Total Weight Landed (tons)	572.6	673.8	252	-	-	-	-	-
Estimated Number Landed	366581	228329	143200	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	Large	-	4 3/8 <sup>1</sup>	3 1/2-4 <sup>2</sup>	6-8 <sup>1</sup>	6-8 <sup>1</sup>	6-7 <sup>1</sup>	6-8 <sup>1</sup>
Range of Depths (fm)	101-125	180	-	9-10	5-100	40-100	20-100	20-120

<sup>1</sup> inches<sup>2</sup> inches, cotton

TABLE 15

LENGTH FREQUENCIES - COD - 4T - 1968

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)					
	Landings					
CATCHES/LANDINGS	May	May	June	June	July	August
MONTH	Canada (Maritimes)		Canada (Quebec)		Canada (Maritimes)	
COUNTRY	151-500		26-50 and 51-150		26-50 and 51-150	
TONNAGE	151-500		26-50 and 51-150		26-50 and 51-150	
24	5	-	-	-	-	-
27	5	-	-	-	-	-
30	43	-	-	-	-	-
33	62	-	-	-	1	-
36	223	10	-	45	12	-
39	271	109	17	149	43	46
42	217	182	92	175	143	266
45	59	191	260	135	157	266
48	48	180	202	83	154	205
51	19	134	178	78	114	102
54	12	69	98	73	124	30
57	5	34	19	57	91	27
60	10	25	32	73	45	15
63	9	22	28	38	28	14
66	4	13	15	31	28	11
69	1	11	20	19	18	7
72	2	8	17	14	13	4
75	2	4	8	12	7	2
78	2	2	3	9	6	1
81	1	1	3	2	3	1
84	-	1	-	-	3	-
87	-	1	3	-	3	1
90	1	-	2	5	3	1
93	-	1	-	-	1	-
96	-	-	2	-	1	1
99	-	1	-	-	1	-
102	-	-	1	-	1	-
105	-	-	-	-	-	-
108	-	-	1	-	-	1
Total ‰	1001	999	1001	1000	1000	1001
Serial Numbers	27	1-7	8	-	9-14	15-17
Number of Samples	1	7	1	1	6	3
Number of Fish Measured	457	1608	208	423	1222	550
Mean Length (cm)	41.3	49.1	51.6	50.4	52.2	48.1
Mean Weight (kg)	0.79	1.12	1.28	-	1.39	1.04
Total Weight Landed (tons)	852	2423	1860	9.07	1975	1824
Estimated Number Landed	10785 <sup>1</sup>	21634 <sup>1</sup>	14531 <sup>1</sup>	-	14209 <sup>1</sup>	17538 <sup>1</sup>
Mesh(mm) or Hook(no.) Size	4 1/2 <sup>2</sup>	4 3/8-4 5/8 <sup>2</sup>	4 1/2 <sup>2</sup>	4 1/2 <sup>2</sup>	4 1/2 <sup>2</sup>	4 5/8 <sup>2</sup>
Range of Depths (fm)	80-120	50-150	90-115	27	40-90	20-60

<sup>1</sup> Numbers in 100's<sup>2</sup> inches



TABLE 15  
(Cont'd)

LENGTH FREQUENCIES - COD - 4T - 1968

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl				Gillnet	
	(Commercial)					
CATCHES/LANDINGS	Landings			Landings <sup>1</sup>	Landings	
MONTH	September	October	December	December	June	July
COUNTRY	Canada (Maritimes)			France (St.P&Q)	Canada (Quebec)	
TONNAGE	26-50 and 51-150		151-500		NK	
27	-	-	18	-	-	-
30	-	-	66	1	-	-
33	-	-	194	14	3	-
36	-	2	255	76	7	12
39	11	23	182	161	17	24
42	129	134	134	280	20	55
45	291	279	91	245	13	35
48	220	204	33	123	27	47
51	120	138	15	47	20	39
54	89	96	8	27	23	59
57	18	33	5	9	37	31
60	27	20	-	8	27	39
63	31	23	-	5	50	16
66	20	17	-	2	53	51
69	17	13	-	1	73	78
72	6	5	-	1	120	78
75	4	4	-	-	113	114
78	3	3	-	-	60	39
81	3	2	-	-	120	86
84	2	1	-	-	47	59
87	-	-	-	-	57	27
90	2	1	-	-	30	27
93	1	-	-	-	33	31
96	2	-	-	-	13	8
99	1	1	-	-	10	12
102	-	-	-	-	7	8
105	1	-	-	-	7	8
108	-	-	-	-	-	4
111	-	-	-	-	3	-
114	1	-	-	-	-	8
117	-	-	-	-	10	-
120	-	-	-	-	-	-
123	-	1	-	-	-	4
126	1	-	-	-	-	-
Total ‰	1000	1000	1001	1000	1000	999
Serial Numbers	18-20	21-26	28	-	-	-
Number of Samples	3	6	1	1	1	1
Number of Fish Measured	638	1210	396	3103	300	255
Mean Length (cm)	50.8	50.2	38.9	-	73.8	69.9
Mean Weight (kg)	1.33	1.22	0.69	0.82	-	-
Total Weight Landed (tons)	1490	1761	1241	-	0.9	0.72
Estimated Number Landed	11203 <sup>2</sup>	14434 <sup>2</sup>	17986 <sup>2</sup>	-	-	-
Mesh(mm) or Hook(no.) Size	4 1/2 <sup>3</sup>	4 3/8-4 5/8 <sup>3</sup>	4 1/2 <sup>3</sup>	4 1/2 <sup>3</sup>	7-9 <sup>3</sup>	8 <sup>3</sup>
Range of Depths (fm)	15-55	32-87	35-36	35-70	20-30	25

<sup>1</sup> Landings After Discards<sup>2</sup> Numbers in 100's<sup>3</sup> inches

TABLE 16 LENGTH FREQUENCIES - COD - 4Vn - 1968

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl		Long Line	
	(Commercial)			
CATCHES/LANDINGS	Landings			
MONTH	February	May	September	November
COUNTRY	Canada (Maritimes)			
TONNAGE	151-500		0-25	
36	-	7	5	-
39	8	11	10	-
42	74	18	25	43
45	125	47	69	72
48	98	68	117	132
51	125	93	139	165
54	146	154	148	161
57	100	129	145	89
60	76	115	97	92
63	71	123	82	72
66	50	79	63	56
69	37	55	28	30
72	9	28	19	23
75	10	15	8	20
78	6	8	13	13
81	4	12	8	8
84	9	9	8	2
87	8	8	3	8
90	17	8	4	2
93	8	6	3	4
96	2	1	3	3
99	9	3	3	2
102	2	-	-	-
105	2	3	-	1
108	2	-	-	-
111	-	-	-	2
114	-	-	-	-
117	2	-	-	1
Total ‰	1000	1000	1000	1001
Serial Numbers	30	31	32-33	34
Number of Samples	1	1	2	1
Number of Fish Measured	311	330	635	313
Mean Length (cm)	57.5	60.0	57.5	57.4
Mean Weight (kg)	2.03	2.30	2.08	2.00
Total Weight Landed (tons)	1578	155	241	121
Estimated Number Landed	7773 <sup>1</sup>	674 <sup>1</sup>	1159 <sup>1</sup>	605 <sup>1</sup>
Mesh(mm) or Hook(no.) Size	4 3/8 <sup>2</sup>	16	16	16
Range of Depths (fm)	90-150	30-65	25-38	30-42

<sup>1</sup> Numbers in 100's<sup>2</sup> Inches

TABLE 17 LENGTH FREQUENCIES - COD - 4Vs - 1968

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)				
	Landings		Landings <sup>1</sup>	Landings	
CATCHES/LANDINGS	February	March	March	April	May
MONTH	Canada (Maritimes)		Canada (N)	(Canada (Maritimes))	
TONNAGE	151-500			501-900	
36	-	-	-	-	4
39	-	22	-	51	8
42	26	70	19	124	43
45	64	115	107	164	79
48	196	155	88	174	128
51	188	127	164	121	150
54	174	144	164	121	170
57	132	102	132	86	100
60	101	66	82	82	143
63	40	69	69	27	52
66	26	59	63	12	47
69	19	43	44	12	38
72	9	17	6	4	17
75	8	7	19	5	12
78	-	3	6	8	6
81	2	-	6	1	-
84	6	-	6	5	3
87	3	-	6	2	-
90	2	-	-	-	-
93	1	-	-	-	-
96	2	-	13	-	-
99	1	-	-	-	-
102	1	-	-	-	-
105	-	-	-	-	-
108	-	-	-	-	-
111	-	-	6	-	-
Total ‰	1001	999	1000	999	1000
Serial Numbers	35	36	-	37	38
Number of Samples	1	1	1	1	1
Number of Fish Measured	337	307	159	329	311
Mean Length (cm)	55.3	54.6	57.830	51.8	55.9
Mean Weight (kg)	1.67	1.51	1.712	1.31	1.65
Total Weight Landed (tons)	801	1339	1012.9	506	190
Estimated Number Landed	4796 <sup>2</sup>	8868 <sup>2</sup>	591647	3863 <sup>2</sup>	1152 <sup>2</sup>
Mesh(mm) or Hook(no.) Size	4 3/8 <sup>3</sup>	4 1/2 <sup>3</sup>	-	4 1/2 <sup>3</sup>	4 1/2 <sup>3</sup>
Range of Depths (fm)	55-120	54-115	120	45-60	40-95

<sup>1</sup> Landings after discards<sup>2</sup> Numbers in 100's<sup>3</sup> inches

TABLE 18 LENGTH FREQUENCIES - COD - 4W - 1968

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)				
	Landings				
CATCHES/LANDINGS	February	March	May	May	June
MONTH	Canada (Maritimes)				
COUNTRY	151-500		501-900		151-500
TONNAGE					
33	-	-	-	1	-
36	-	-	-	12	10
39	4	6	12	27	38
42	18	14	66	38	87
45	32	20	123	41	103
48	120	16	143	47	120
51	278	37	115	82	144
54	237	48	148	192	139
57	162	95	139	167	116
60	91	96	104	113	83
63	30	100	61	108	74
66	-	46	31	58	38
69	-	42	19	38	24
72	-	75	15	17	12
75	1	46	4	14	9
78	1	63	12	13	-
81	-	48	4	8	-
84	7	56	-	8	-
87	6	62	-	5	-
90	5	24	-	5	-
93	2	38	-	2	3
96	2	22	4	3	-
99	1	16	-	1	-
102	2	7	-	-	-
105	1	13	-	-	-
108	-	-	-	-	-
111	-	2	-	-	-
114	1	2	-	-	-
117	-	-	-	-	-
120	-	2	-	-	-
123	-	2	-	-	-
126	-	2	-	-	-
Total ‰	1001	1000	1000	1000	1000
Serial Numbers	39	40	41	42	43
Number of Samples	1	1	1	1	1
Number of Fish Measured	314	338	253	591	358
Mean Length (cm)	55.2	71.8	54.9	58.4	54.0
Mean Weight (kg)	1.76	4.16	1.70	2.49	1.56
Total Weight Landed (tons)	751	971	958	242	603
Estimated Number Landed	4267 <sup>1</sup>	2334 <sup>1</sup>	5635 <sup>1</sup>	972 <sup>1</sup>	3865 <sup>1</sup>
Mesh(mm) or Hook(no.) Size	4 1/2 <sup>2</sup>	4 1/2 <sup>2</sup>	4 1/2 <sup>2</sup>	4 3/8 <sup>2</sup>	4 1/2 <sup>2</sup>
Range of Depths (fm)	35-45	40-60	45-60	-	60-70

<sup>1</sup> Numbers in 100's<sup>2</sup> inches

TABLE 18  
(Cont'd)

LENGTH FREQUENCIES - COD - 4W - 1968

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl			Long Line	
	(Commercial)				
CATCHES/LANDINGS	Landings				
MONTH	June	July	December	September	November
COUNTRY	Canada (Maritimes)				
TONNAGE	501-900	151-500	501-900	0-25	
33	1	-	-	-	-
36	8	51	-	1	7
39	18	102	19	7	55
42	24	176	59	24	68
45	35	153	129	32	94
48	22	136	177	74	136
51	50	75	175	156	113
54	62	84	129	126	146
57	72	77	75	170	100
60	128	63	32	109	71
63	124	32	49	118	71
66	113	22	37	59	48
69	86	11	30	52	42
72	56	9	27	25	16
75	41	-	17	17	-
78	33	2	12	12	16
81	38	2	5	3	10
84	31	2	7	10	3
87	17	-	7	-	-
90	24	1	2	-	3
93	10	1	4	3	-
96	7	1	-	-	-
99	-	-	-	-	-
102	-	-	-	2	-
105	-	-	2	-	-
108	-	-	2	-	-
111	-	-	2	-	-
114	-	-	-	-	-
117	-	-	-	-	-
120	-	-	-	-	-
123	-	-	-	-	-
126	-	-	2	-	-
Total ‰	1000	1000	1000	1000	999
Serial Numbers	44	45	46	47	48
Number of Samples	1	1	1	1	1
Number of Fish Measured	391	305	338	307	309
Mean Length (cm)	65.1	49.8	55.4	58.8	54.9
Mean Weight (kg)	3.06	1.27	1.92	2.00	1.67
Total Weight Landed (tons)	303	203	407	127	156
Estimated Number Landed	990 <sup>1</sup>	1598 <sup>1</sup>	2120 <sup>1</sup>	635 <sup>1</sup>	934 <sup>1</sup>
Mesh(mm) or Hook(no.) Size	4 3/8 <sup>2</sup>	4 1/2 <sup>2</sup>	4 1/2 <sup>2</sup>	6/0	6/0
Range of Depths (fm)	-	30-80	26-40	28-40	40-60

<sup>1</sup> Numbers in 100's<sup>2</sup> Inches

TABLE 19 LENGTH FREQUENCIES - COD - 4K (SOUTH) - 1968

(FREQUENCIES IN ‰ - 3CM GROUPS)

GEAR	Otter Trawl (Commercial)						
	Landings						
CATCHES/LANDINGS	January	February	April	May	June	June	December
MONTH	Canada (Maritimes)						
COUNTRY	Canada (Maritimes)						
TONNAGE	151-500				501-900	151-500	
33	-	-	-	-	1	-	-
36	-	-	3	9	3	1	14
39	1	10	20	26	23	25	27
42	11	18	24	31	39	66	59
45	16	36	24	60	59	69	78
48	72	49	23	70	78	62	101
51	57	166	85	110	78	45	82
54	133	151	120	120	98	33	88
57	139	149	92	168	120	62	103
60	146	155	83	122	180	70	85
63	76	74	110	99	115	101	48
66	90	55	64	59	82	93	74
69	69	35	86	48	47	78	42
72	61	29	44	20	25	93	56
75	21	10	33	19	14	47	23
78	12	6	26	12	9	30	31
81	18	10	37	8	6	7	11
84	19	8	27	8	9	31	22
87	12	6	24	4	3	28	10
90	11	8	21	3	2	26	11
93	9	7	13	2	3	3	8
96	9	6	13	-	2	10	6
99	-	3	9	-	2	7	5
102	2	4	7	-	1	3	3
105	5	1	4	1	-	3	3
108	-	1	2	-	1	3	2
111	5	1	1	1	-	3	3
114	-	1	1	-	-	-	2
117	4	1	1	-	-	-	-
120	2	1	1	-	-	-	2
123	-	1	-	-	-	-	-
126	-	-	-	-	-	-	-
129	-	-	-	-	-	-	-
132	-	-	1	-	-	-	-
Total ‰	1000	1002	999	1000	1000	999	999
Serial Numbers	49	50	51,63	52,53	55,57,58	56	59
Number of Samples	1	1	2	2	3	1	1
Number of Fish Measured	296	303	658	626	925	284	225
Mean Length (cm)	63.6	59.8	65.5	58.2	58.9	64.4	60.4
Mean Weight (kg)	3.02	2.43	3.20	2.19	2.33	3.01	2.68
Total Weight Landed (tons)	383	528	1165	1071	1105	664	311
Estimated Number Landed	1268 <sup>1</sup>	2173 <sup>1</sup>	3641 <sup>1</sup>	4890 <sup>1</sup>	4742 <sup>1</sup>	2206 <sup>1</sup>	1160 <sup>1</sup>
Mesh(mm) or Hook(no.) Size	4 1/2 <sup>2</sup>	4 1/2 <sup>2</sup>	4 1/2 <sup>2</sup> 4 3/8	4 1/2 <sup>2</sup> 4 3/8	4 1/2 <sup>2</sup> 4 3/8	4 3/8 <sup>2</sup>	4 1/2 <sup>2</sup>
Range of Depths (fm)	70-90	54-90	40-100	45-50	35-46	-	44-80

<sup>1</sup> Numbers in 100's  
<sup>2</sup> inches

TABLE 20

LENGTH FREQUENCIES - COD - 52e - 1968

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)		
CATCHES/LANDINGS	Landings		
MONTH	June	October	October
COUNTRY	Canada (Maritimes)		
TONNAGE	151-500		501-900
36	8	8	6
39	32	7	6
42	68	32	16
45	58	123	82
48	49	228	216
51	77	253	290
54	131	135	160
57	124	95	71
60	148	32	19
63	106	32	24
66	53	47	28
69	59	-	14
72	18	1	8
75	14	1	8
78	10	2	9
81	16	1	13
84	14	1	11
87	8	1	5
90	6	-	2
93	1	-	7
96	1	1	-
99	-	-	-
102	-	-	2
105	-	-	-
108	-	-	-
111	-	-	2
114	-	-	1
Total ‰	1001	1000	1000
Serial Numbers	54	61	62
Number of Samples	1	1	1
Number of Fish Measured	312	396	338
Mean Length (cm)	58.5	52.7	54.8
Mean Weight (kg)	2.10	1.52	1.99
Total Weight Landed (tons)	290	578	1253
Estimated Number Landed	1381 <sup>1</sup>	3803 <sup>1</sup>	6296 <sup>1</sup>
Mesh(mm) or Hook(no.) Size	4 1/2 <sup>2</sup>	4 3/8 <sup>2</sup>	4 3/8 <sup>2</sup>
Range of Depths (fm)	-	-	-

1 Numbers in 100's

2 inches

TABLE 21 LENGTH FREQUENCIES - COD - 5Z - 1968

(FREQUENCIES IN ‰ - 3CM GROUPS)

GEAR	Otter Trawl (Commercial)					
	Landings					
CATCHES/LANDINGS	January	February	March	April	May	June
MONTH	United States					
COUNTRY	0-458					
TONNAGE						
36	8	-	-	-	-	-
39	23	-	-	29	25	7
42	71	7	62	164	136	101
45	29	41	94	170	247	244
48	59	90	66	125	273	222
51	120	87	28	154	99	130
54	112	104	53	183	49	75
57	142	99	90	75	12	68
60	90	120	89	35	37	61
63	60	90	52	15	12	51
66	83	68	32	17	37	20
69	54	33	48	15	37	5
72	47	38	52	8	12	6
75	27	35	30	8	12	7
78	21	28	39	-	-	3
81	19	46	42	2	-	-
84	8	17	33	-	12	-
87	1	9	47	-	-	-
90	7	20	36	-	-	-
93	19	20	18	-	-	-
96	-	34	29	-	-	-
99	-	14	16	-	-	-
102	-	-	38	-	-	-
105	-	-	6	-	-	-
Total ‰	1000	1000	1000	1000	1000	1000
Serial Numbers	-	-	-	-	-	-
Number of Samples	3	3	2	2	1	2
Number of Fish Measured	315	366	240	267	81	229
Mean Length (cm)	59.69	64.58	67.55	51.22	51.03	51.44
Mean Weight (kg)	2.56	2.56	3.92	1.58	1.62	1.59
Total Weight Landed (tons)	776	866	1077	1281	1541	1555
Estimated Number Landed	3035 <sup>1</sup>	3387 <sup>1</sup>	2751 <sup>1</sup>	8098 <sup>1</sup>	9526 <sup>1</sup>	9791 <sup>1</sup>
Mesh(mm) or Hook(no.) Size	114	114	114	114	114	114
Range of Depths (fm)	6-105	12-19	15-25	7-15	29-35	14-21

<sup>1</sup> Numbers in 100's



TABLE 21  
(Cont'd)

LENGTH FREQUENCIES - COD - 5Z - 1968

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)					
	Landings					
CATCHES/LANDINGS	July	August	September	October	November	December
MONTH	United States					
COUNTRY	0-458					
TONNAGE						
33	-	-	-	-	-	3
36	-	-	-	-	-	6
39	-	-	-	4	4	20
42	-	11	5	-	10	65
45	-	67	38	64	110	146
48	-	174	123	123	200	192
51	-	106	137	127	200	227
54	160	99	62	89	84	158
57	290	175	48	105	72	93
60	238	80	100	98	59	45
63	102	85	85	98	88	8
66	29	28	81	86	63	8
69	29	82	81	36	23	16
72	36	23	101	43	20	5
75	37	23	53	36	13	-
78	22	17	38	43	30	8
81	22	-	9	14	10	-
84	14	6	24	18	6	-
87	7	-	-	4	4	-
90	14	6	5	4	1	-
93	-	-	5	4	2	-
96	-	6	-	4	1	-
99	-	6	-	-	-	-
102	-	6	5	-	-	-
Total ‰	1000	1000	1000	1000	1000	1000
Serial Numbers	-	-	-	-	-	-
Number of Samples	1	2	2	2	3	2
Number of Fish Measured	138	241	210	273	342	242
Mean Length (cm)	62.70	58.75	62.57	60.68	56.58	51.84
Mean Weight (kg)	2.79	2.42	2.88	2.64	2.16	1.65
Total Weight Landed (tons)	1620	1242	1490	1439	948	642
Estimated Number Landed	5803 <sup>1</sup>	5142 <sup>1</sup>	5166 <sup>1</sup>	5445 <sup>1</sup>	4393 <sup>1</sup>	4148 <sup>1</sup>
Mesh(mm) or Hook(no.) Size	114	114	114	114	114	114
Range of Depths (fm)	32-35	23-38	24-35	20-28	11-31	10-27

<sup>1</sup> Numbers in 100's

TABLE 22

AGE/LENGTH KEY - COD - 18 - 1968 (3rd QUARTER)

GEAR		NK <sup>1</sup> (Commercial)																Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
CATCHES OR LANDINGS		NK																	Months Within Quarter		
COUNTRY		Denmark (Greenland)																			
TONNAGE		0-50																			
STRUCTURES USED IN AGE DETERMINATION		Otoliths																			
Length Group (3 cm)	Age	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Jul	Aug	Sep	
		36	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-
39	8	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10				
42	11	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17				
45	4	18	1	-	-	-	-	-	-	-	-	-	-	-	-	-	23				
48	-	14	3	-	-	-	-	-	-	-	-	-	-	-	-	-	17				
51	-	10	8	-	-	-	-	-	-	-	-	-	-	-	-	-	18				
54	-	4	13	2	-	-	-	-	-	-	-	-	-	-	-	-	19				
57	-	2	14	5	-	-	-	-	-	-	-	-	-	-	-	-	21				
60	-	1	17	10	4	1	-	-	-	-	-	-	-	-	-	-	33				
63	-	-	37	27	21	2	1	-	-	-	-	-	-	-	-	-	88				
66	-	-	21	49	36	6	-	-	1	-	-	-	-	-	-	-	113				
69	-	-	7	63	62	10	-	-	-	-	-	-	-	-	-	-	142				
72	-	-	4	41	55	25	3	1	2	-	-	-	-	-	-	-	131				
75	-	-	-	28	67	33	-	1	2	-	-	-	-	-	-	-	132				
78	-	-	1	14	64	23	5	2	2	-	-	-	-	-	-	-	111				
81	-	-	-	-	26	14	1	2	4	-	-	-	-	-	-	-	47				
84	-	-	-	-	15	13	1	2	1	-	-	-	-	-	-	-	32				
87	-	-	-	1	5	5	1	1	2	-	-	-	-	-	-	-	15				
90	-	-	-	-	3	5	1	-	2	-	1	-	-	-	-	-	12				
93	-	-	-	-	1	1	1	-	2	-	-	-	-	-	-	-	5				
96	-	-	-	-	-	1	1	-	2	-	-	-	-	-	-	-	4				
Total No. of Ages Read		24	57	126	240	359	139	15	9	20	-	1	-	-	-	1	991				
Serial Numbers		No. of Age Samples																			200
		Number of fish measured each month																			
		Mean length of fish (cm) each month																65.4	71.7	70.1	
		Mean weight of fish (kg) each month																			
		Total weight caught or landed (tons) each month																			
		Estimated number caught or landed (whole numbers) each month																			
		Range of depths (m) each month																			
		Mesh size (mm)																			

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	Total

<sup>1</sup> not trawled

TABLE 23

AGE/LENGTH KEY - COD - IC - 1968 (3rd QUARTER)

GEAR		Long Line (Research)																Total	LENGTH COMPOSITION				
CATCHES OR LANDINGS		NK																No. of	PER MILLE				
COUNTRY		Denmark (Greenland)																Ages	Months Within Quarter				
TONNAGE		< 50																Read	Jul			Aug	Sep
STRUCTURES USED IN AGE DETERMINATION		Otoliths																					
Length Group (3 cm)	Age	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Total	PER MILLE				
																			Jul	Aug	Sep		
30		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1						
33		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
36		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
39		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
42		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
45		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
48		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
51		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
54		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
57		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
60		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
63		-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1						
66		-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	3						
69		-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	3						
72		-	-	-	-	-	6	1	-	-	-	-	-	-	-	-	7						
75		-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	4						
78		-	-	-	-	-	4	-	-	1	-	-	-	-	-	-	5						
81		-	-	-	-	1	3	-	1	4	-	-	-	-	-	-	9						
84		-	-	-	-	-	1	-	-	2	-	-	2	-	-	-	5						
87		-	-	-	-	-	1	1	2	4	-	-	1	-	-	-	9						
90		-	-	-	-	-	-	-	-	4	1	-	-	-	-	-	5						
93		-	-	-	-	-	1	-	-	2	-	-	1	-	-	-	4						
96		-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1						
99		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
102		-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	2						
105		-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1						
108		-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1						
111		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
114		-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1						
Total No. of Ages Read		1	-	-	-	8	19	3	4	19	2	-	2	3	-	-	1	62	X				
Serial Numbers		No. of Age Samples																					
X	Number of fish measured each month																	62					
	Mean length of fish (cm) each month																	82.9					
	Mean weight of fish (kg) each month																						
	Total weight caught or landed (tons) each month																						
	Estimated number caught or landed (whole numbers) each month																						
	Range of depths (m) each month																	100-320					
Mesh size (mm)																							

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	Total

TABLE 24

AGE/LENGTH KEY - COD - ID - 1968 (2nd QUARTER)

GEAR		Long Line (Research)													
CATCHES OR LANDINGS		NK													
COUNTRY		Denmark (Greenland)													
TONNAGE		< 50													
STRUCTURES USED IN AGE DETERMINATION		Otoliths													
Length Group (3 cm)	Age	3	4	5	6	7	8	9	10	11	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
													Months Within Quarter	Apr	May
33	1	1	-	-	-	-	-	-	-	-	1				
36	1	1	-	-	-	-	-	-	-	-	1				
39	6	1	-	-	-	-	-	-	-	-	7				
42	2	1	1	-	-	-	-	-	-	-	4				
45	2	5	2	-	-	-	-	-	-	-	9				
48	-	3	5	1	-	-	-	-	-	-	9				
51	-	4	9	2	-	-	-	-	-	-	15				
54	-	-	8	9	4	-	-	-	-	-	21				
57	-	-	8	5	6	-	-	-	-	-	19				
60	-	-	5	19	15	1	-	-	-	-	40				
63	-	-	5	16	35	1	-	-	-	-	57				
66	-	-	-	5	36	6	-	-	-	-	47				
69	-	-	-	5	23	17	-	-	-	-	45				
72	-	-	-	3	20	11	6	-	-	-	40				
75	-	-	-	-	10	17	4	1	-	-	32				
78	-	-	-	-	5	11	2	1	1	-	20				
81	-	-	-	-	-	6	3	-	-	-	9				
84	-	-	-	-	-	3	-	-	3	-	6				
87	-	-	-	-	-	3	-	-	3	-	6				
90	-	-	-	-	-	-	-	1	1	-	2				
93	-	-	-	-	-	-	-	-	-	-	-				
96	-	-	-	-	-	-	-	-	-	-	-				
99	-	-	-	-	-	-	-	-	1	-	1				
102	-	-	-	-	-	-	-	-	-	-	-				
105	-	-	-	-	-	-	-	-	-	-	-				
108	-	-	-	-	-	-	1	-	-	-	1				
Total No. of Ages Read		12	14	43	65	154	76	16	3	9	392	X			
Serial Numbers		No. of Age Samples													
X	Number of fish measured each month												267	125	
	Mean length of fish (cm) each month												66.3	65.6	
	Mean weight of fish (kg) each month														
	Total weight caught or landed (tons) each month														
	Estimated number caught or landed (whole numbers) each month														
	Range of depths (m) each month												240-450	280-300	
Mesh size (mm)															

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	Total

TABLE 25

AGE/LENGTH KEY - COD - 1E - 1968 (2nd QUARTER)

GEAR		NK <sup>1</sup> (Commercial)											
CATCHES OR LANDINGS		NK											
COUNTRY		Denmark (Greenland)											
TONNAGE		0-50											
STRUCTURES USED IN AGE DETERMINATION		Otoliths											
Length Group (3 cm)	Age	4	5	6	7	8	9	10	11	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
											Months Within Quarter		
											Apr	May	Jun
42		-	4	1	-	-	-	-	-	5			
45		-	6	1	-	-	-	-	-	7			
48		1	15	7	-	-	-	-	-	23			
51		2	15	8	-	-	-	-	-	25			
54		1	8	8	1	-	-	-	-	18			
57		-	6	13	7	-	-	-	-	26			
60		1	2	9	3	-	-	-	-	15			
63		-	1	7	13	1	-	-	-	22			
66		-	-	2	14	2	-	-	-	18			
69		-	-	2	13	2	-	-	-	17			
72		-	-	2	12	1	-	-	-	15			
75		-	-	3	4	2	1	-	1	11			
78		-	-	-	1	-	-	-	-	1			
81		-	-	-	2	-	-	-	-	2			
84		-	-	-	-	-	-	-	-	-			
87		-	-	-	1	-	-	-	-	1			
Total No. of Ages Read		5	57	63	71	8	1	-	1	206	X		
Serial Numbers		No. of Age Samples											
X		Number of fish measured each month											206
		Mean length of fish (cm) each month											60.3
		Mean weight of fish (kg) each month											
		Total weight caught or landed (tons) each month											
		Estimated number caught or landed (whole numbers) each month											
		Range of depths (m) each month											
Mesh size (mm)													

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	Total

1 Not trawled













TABLE 27

## AGE/LENGTH TABLE - COD - IC - 1968 (2nd QUARTER)

GEAR		Otter Trawl (Commercial)														
CATCHES OR LANDINGS		Catches														
COUNTRY		Germany, Federal Republic														
TONNAGE		2145														
STRUCTURES USED IN AGE DETERMINATION		Otoliths														
Length Group (3 cm)	Age	3	4	5	6	7	8	9	10	11	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE				
												Months Within Quarter				
												Apr	May	Jun		
30		2	-	-	-	-	-	-	-	-	2	-	-	10		
33		2	-	-	-	-	-	-	-	-	2	-	-	11		
36		6	2	-	-	-	-	-	-	-	8	-	-	48		
39		6	1	1	-	-	-	-	-	-	8	-	-	42		
42		4	5	2	-	-	-	-	-	-	11	-	-	58		
45		-	4	-	-	-	-	-	-	-	4	-	-	32		
48		-	3	5	-	-	-	-	-	-	8	-	-	53		
51		-	4	12	-	-	-	-	-	-	16	-	-	85		
54		-	-	11	-	-	-	-	-	-	11	-	-	58		
57		-	-	16	4	1	-	-	-	-	21	-	-	116		
60		-	-	10	7	-	1	-	-	-	18	-	-	95		
63		-	-	2	9	5	-	-	-	-	16	-	-	85		
66		-	-	-	6	9	1	-	-	-	16	-	-	85		
69		-	-	-	2	7	1	-	-	-	10	-	-	53		
72		-	-	-	1	3	3	-	-	-	7	-	-	37		
75		-	-	-	-	2	2	-	-	1	5	-	-	32		
78		-	-	-	-	-	3	1	-	-	4	-	-	21		
81		-	-	-	-	1	4	1	-	-	6	-	-	32		
84		-	-	-	-	-	2	-	-	1	3	-	-	16		
87		-	-	-	-	-	1	-	-	2	3	-	-	21		
90		-	-	-	-	-	-	-	-	1	1	-	-	5		
93		-	-	-	-	-	-	-	-	1	1	-	-	5		
Total No. of Ages Read		20	19	59	29	28	18	2	-	6	181	-	-	1000		
Serial Numbers	30											No. of Age Samples	1			
X	Number of fish measured each month											-	-	198		
	Mean length of fish (cm) each month											-	-	59.7		
	Mean weight of fish (kg) each month											-	-	-		
	Total weight caught or landed (tons) each month											-	-	-		
	Estimated number caught or landed (whole numbers) each month											-	-	-		
	Range of depths (m) each month											-	-	-		
Mesh size (mm)											-	-	130			

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	9	10	11	Total
Apr	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-
Jun	110	117	321	155	152	100	10	-	35	1000

TABLE 27  
(Cont'd)

AGE/LENGTH TABLE - COD - 1C - 1968 (2nd QUARTER)

GEAR		Otter Trawl (Research)										Total No. of Ages Read	LENGTH COMPOSITION PER MILE	
CATCHES OR LANDINGS		NK											Months Within Quarter	
COUNTRY		Denmark (Faroes)										Apr	May & Jun <sup>1</sup>	
TONNAGE		900-1800												
STRUCTURES USED IN AGE DETERMINATION		Otoliths												
Length Group (3 cm)	Age	3	4	5	6	7	8	9	10	11	Total No. of Ages Read	PER MILE		
												Apr	May & Jun <sup>1</sup>	
33		14	-	-	-	-	-	-	-	-	14	-	14	
36		12	-	-	-	-	-	-	-	-	12	-	21	
39		8	2	-	-	-	-	-	-	-	10	-	21	
42		8	5	-	-	-	-	-	-	-	13	-	22	
45		-	3	3	-	-	-	-	-	-	6	-	18	
48		-	7	6	1	-	-	-	-	-	14	-	54	
51		-	4	9	-	-	-	-	-	-	13	-	77	
54		-	1	13	1	-	-	-	-	-	15	-	139	
57		-	-	10	4	-	1	-	-	-	15	-	155	
60		-	-	10	5	-	-	-	-	-	15	-	163	
63		-	-	5	9	1	-	-	-	-	15	-	123	
66		-	-	-	13	2	-	-	-	-	15	-	86	
69		-	-	1	6	5	-	-	-	-	12	-	51	
72		-	-	-	6	5	1	-	-	-	12	-	27	
75		-	-	-	1	2	-	-	-	-	3	-	11	
78		-	-	-	-	1	1	-	-	2	4	-	9	
81		-	-	-	-	1	1	-	-	-	2	-	3	
84		-	-	-	-	1	-	-	-	-	1	-	2	
87		-	-	-	-	-	-	-	-	-	-	-	3	
90		-	-	-	-	-	-	-	-	-	-	-	-	
93		-	-	-	-	-	1	-	-	-	1	-	+	
96		-	-	-	-	-	-	-	-	-	-	-	-	
99		-	-	-	-	-	-	-	-	-	-	-	-	
102		-	-	-	-	-	-	-	-	1	1	-	+	
Total No. of Ages Read		42	22	57	46	18	5	-	-	3	193	999		
Serial Numbers	No. of Age Samples													
X	Number of fish measured each month										-	2627		
	Mean length of fish (cm) each month										-	58.6		
	Mean weight of fish (kg) each month										-	-		
	Total weight caught or landed (tons) each month										-	-		
	Estimated number caught or landed (whole numbers) each month										-	-		
	Range of depths (m) each month										-	146-201		
	Mesh size (mm)										-	-		

## AGE COMPOSITIONS OF LANDINGS (PER MILE)

Month	3	4	5	6	7	8	9	10	11	Total
Apr	-	-	-	-	-	-	-	-	-	-
May & Jun	66	81	462	301	64	16	-	-	5	995

<sup>1</sup> 25 May - 5 June

TABLE 27  
(Cont'd)

## AGE/LENGTH TABLE - COD - 1C - 1968 (2nd QUARTER)

GEAR		Long Line (Commercial)															Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
CATCHES OR LANDINGS		NK																Months Apr	May	Jun
COUNTRY		Portugal																		
TONNAGE		1173																		
STRUCTURES USED IN AGE DETERMINATION		Otoliths																		
Length Group (3 cm)	Age	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Apr	May	Jun	
		33	1	-	-	-	-	-	-	-	-	-	-	-	-	-				-
36	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	7	14	
39	3	5	1	-	-	-	-	-	-	-	-	-	-	-	-	9	-	13	14	
42	-	7	1	-	-	-	-	-	-	-	-	-	-	-	-	8	-	7	11	
45	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	4	-	7	6	
48	-	4	1	1	-	-	-	-	-	-	-	-	-	-	-	6	-	13	12	
51	-	1	9	3	2	-	-	-	-	-	-	-	-	-	-	15	-	39	17	
54	-	-	8	3	1	-	-	-	-	-	-	-	-	-	-	12	-	33	19	
57	-	-	13	13	4	1	-	-	-	-	-	-	-	-	-	31	-	53	41	
60	-	-	8	10	7	2	-	-	-	-	-	-	-	-	-	27	-	53	50	
63	-	-	2	15	32	4	-	-	-	-	-	-	-	-	-	53	-	105	90	
66	-	-	-	9	36	7	1	-	-	-	-	-	-	-	-	53	-	118	88	
69	-	-	-	8	33	19	3	-	1	-	-	-	-	-	-	64	-	79	123	
72	-	-	-	4	41	36	2	1	1	-	-	-	-	-	-	85	-	125	124	
75	-	-	-	-	19	31	7	4	-	-	-	-	-	-	-	61	-	118	87	
78	-	-	-	-	10	25	11	4	5	2	-	1	-	-	-	58	-	79	88	
81	-	-	-	1	1	24	10	9	7	2	-	-	-	-	-	54	-	99	79	
84	-	-	-	-	1	3	1	4	4	1	1	-	2	-	-	17	-	20	35	
87	-	-	-	-	-	6	4	5	7	1	-	-	1	-	-	24	-	13	35	
90	-	-	-	-	-	1	3	2	3	-	-	1	-	-	-	10	-	-	21	
93	-	-	-	-	-	-	1	2	7	2	1	1	2	-	-	16	-	7	25	
96	-	-	-	-	-	-	-	1	2	-	-	1	-	-	-	4	-	-	7	
99	-	-	-	-	-	-	-	-	2	-	1	-	-	-	1	4	-	-	6	
102	-	-	-	-	-	-	-	-	1	1	-	-	1	-	-	3	-	-	4	
105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
114	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	7	-	
117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	
123	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
129	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	
Total No. of Ages Read		10	18	45	67	187	159	43	32	41	9	3	4	7	-	1	626	X		
Serial Numbers 1-2-6-7-8-9-11-12 with lengths		No. of Age Samples 4-5-10 Lengths only															X			
X		Number of fish measured each month															-	152	724	
		Mean length of fish (cm) each month															-	69.2	71.7	
		Mean weight of fish (kg) each month															-	-	-	
		Total weight caught or landed (tons) each month															-	3817	4318	
		Estimated number caught or landed (whole numbers) each month															-	-	-	
		Range of depths (m) each month															-	128-177	155-220	
		Mesh size (mm)															-	-	-	

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Total
Apr	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	26	21	94	127	326	250	60	40	41	9	2	2	4	-	-	1002
Jun	20	30	65	109	305	247	67	51	65	14	5	7	11	-	2	998



TABLE 28

AGE/LENGTH TABLE - COD - 1D - 1968 (1st QUARTER)

GEAR		Otter Trawl (Commercial)														
CATCHES OR LANDINGS		Landings														
COUNTRY		Germany, Federal Republic														
TONNAGE		719														
STRUCTURES USED IN AGE DETERMINATION		Otoliths														
Length Group (3cm)	Age	5	6	7	8	9	10	11	12	13	14	15	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
														Months Within Quarter		
											Jan	Feb	Mar			
48	1	-	-	-	-	-	-	-	-	-	-	1	-	-	4	
51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	
54	2	2	1	-	-	-	-	-	-	-	-	5	-	-	66	
57	5	2	2	-	-	-	-	-	-	-	-	9	-	-	124	
60	8	9	6	2	-	-	-	-	-	-	-	25	-	-	177	
63	3	14	14	-	-	-	-	-	-	-	-	31	-	-	183	
66	-	13	13	5	1	-	-	-	-	-	-	32	-	-	159	
69	-	5	18	2	-	-	-	-	-	-	-	25	-	-	116	
72	-	3	14	2	-	1	-	-	-	-	-	20	-	-	71	
75	-	-	5	4	-	-	-	-	-	-	-	9	-	-	45	
78	-	-	4	3	1	1	-	-	-	-	-	9	-	-	27	
81	-	-	-	3	1	-	1	1	-	-	-	6	-	-	8	
84	-	-	-	1	2	-	4	-	-	-	-	7	-	-	7	
87	-	-	-	4	2	-	4	-	-	-	-	10	-	-	1	
90	-	-	-	-	-	-	2	-	-	-	-	2	-	-	1	
93	-	-	-	-	-	-	3	-	-	1	-	4	-	-	1	
96	-	-	-	-	-	-	2	1	-	-	-	3	-	-	1	
99	-	-	-	-	-	-	-	-	-	-	1	1	-	-	2	
Total No. of Ages Read		19	48	77	26	7	2	16	2	-	1	1	199	1000		
Serial Numbers	16											No. of Age Samples	1			
X	Number of fish measured each month												-	-	458	
	Mean length of fish (cm) each month												-	-	65.7	
	Mean weight of fish (kg) each month												-	-	-	
	Total weight caught or landed (tons) each month												-	-	85	
	Estimated number caught or landed (whole numbers) each month												-	-	40171	
	Range of depths (m) each month												-	-	-	
Mesh size (mm)												-	-	130		

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	5	6	7	8	9	10	11	12	13	14	15	Total
Jan	-	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-	-
Mar	182	299	400	90	11	6	9	1	-	-	2	1000

TABLE 28  
(Cont'd)

## AGE/LENGTH TABLE - COD - 1D - (2nd QUARTER)

GEAR		Otter Trawl (Research)												Total No. of Ages Read		LENGTH COMPOSITION PER MILLE		
CATCHES OR LANDINGS		NK														Months Within Quarter		
COUNTRY		Denmark (Faroes)																
TONNAGE		900-1800																
STRUCTURES USED IN AGE DETERMINATION		Otoliths																
Length Group (3 cm)	Age	3	4	5	6	7	8	9	10	11	12	13	14	Total No. of Ages Read	PER MILLE			
															Apr	May	Jun	
33		1	-	-	-	-	-	-	-	-	-	-	1	-	+	-		
36		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
39		-	1	-	-	-	-	-	-	-	-	-	1	-	1	-		
42		-	2	1	-	-	-	-	-	-	-	-	3	-	4	-		
45		-	4	3	-	-	-	-	-	-	-	-	7	-	14	-		
48		-	3	20	-	-	-	-	-	-	-	-	23	-	86	-		
51		-	-	24	5	-	-	-	-	-	-	-	29	-	125	-		
54		-	-	31	9	-	-	-	-	-	-	-	40	-	138	-		
57		-	-	23	13	-	-	-	-	-	-	-	36	-	133	-		
60		-	-	17	18	2	-	-	-	-	-	-	37	-	122	-		
63		-	-	12	19	8	-	-	-	-	-	-	39	-	108	-		
66		-	-	1	15	16	4	-	-	-	-	-	36	-	91	-		
69		-	-	-	10	22	5	-	1	-	-	-	38	-	67	-		
72		-	-	-	2	15	4	1	-	-	-	-	22	-	50	-		
75		-	-	-	1	12	4	-	-	-	-	-	17	-	31	-		
78		-	-	-	-	4	3	-	1	-	-	-	8	-	18	-		
81		-	-	-	-	5	3	-	-	-	-	-	8	-	8	-		
84		-	-	-	-	2	1	-	1	-	-	-	4	-	3	-		
87		-	-	-	-	-	-	-	-	1	-	-	1	-	1	-		
90		-	-	-	-	-	-	-	-	-	-	1	1	-	+	-		
Total No. of Ages Read		1	10	132	92	86	24	1	3	1	-	-	1	351	1000			
Serial Numbers		No. of Age Samples																
X		Number of fish measured each month												-	2248	-		
		Mean length of fish (cm) each month												-	52.2	-		
		Mean weight of fish (kg) each month												-	-	-		
		Total weight caught or landed (tons) each month												-	-	-		
		Estimated number caught or landed (whole numbers) each month												-	-	-		
		Range of depths (m) each month												-	110-375	-		
Mesh size (mm)														-	-	-		
AGE COMPOSITIONS OF LANDINGS (PER MILLE)																		
Month	3	4	5	6	7	8	9	10	11	12	13	14	Total					
Apr	-	-	-	-	-	-	-	-	-	-	-	-						
May	+	23	469	276	179	46	2	5	1	-	-	+	1001					
Jun	-	-	-	-	-	-	-	-	-	-	-	-						





TABLE 28  
(Cont'd)

AGE/LENGTH TABLE - COD - 1D - 1968 (2nd QUARTER)

GEAR		Hand Seine (Research)							
CATCHES OR LANDINGS		NK							
COUNTRY		Denmark (Greenland)							
TONNAGE		<50							
STRUCTURES USED IN AGE DETERMINATION		Otoliths							
Length Group (3 cm)	Age	2	3	4	5	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
							Months Within Quarter		
							Apr	May	Jun
15	2	-	-	-	-	2	-	3	-
18	15	-	-	-	-	15	-	130	-
21	15	-	-	-	-	15	-	383	-
24	15	-	-	-	-	15	-	317	-
27	10	5	-	-	-	15	-	94	-
30	1	14	-	-	-	15	-	29	-
33	-	6	-	-	-	6	-	11	-
36	-	8	-	1	-	9	-	15	-
39	-	3	-	1	-	4	-	7	-
42	-	-	-	-	-	-	-	-	-
45	-	2	-	-	-	2	-	3	-
48	-	-	-	-	-	-	-	-	-
51	-	-	-	1	1	2	-	3	-
54	-	-	-	-	2	2	-	3	-
							-	998	-
Total No. of Ages Read		58	38	3	3	102	X		
Serial Numbers		No. of Age Samples							
X		Number of fish measured each month					-	614	-
		Mean length of fish (cm) each month					-	24.1	-
		Mean weight of fish (kg) each month					-	-	-
		Total weight caught or landed (tons) each month					-	-	-
		Estimated number caught or landed (whole numbers) each month					-	-	-
		Range of depths (m) each month					-	-	-
		Mesh size (mm)					-	-	-

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	2	3	4	5	Total
Apr	-	-	-	-	-
May	904	91	5	5	1005
Jun	-	-	-	-	-

TABLE 28  
(Cont'd)

## AGE/LENGTH TABLE - COD - 1D - 1968 (2nd QUARTER)

GEAR		Pound Net (Commercial)															Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
CATCHES OR LANDINGS		Landings																Months Within Quarter		
COUNTRY		Denmark (Greenland)																		
TONNAGE		15.6 and 16.2																		
STRUCTURES USED IN AGE DETERMINATION		Otoliths																		
Length Group (3 cm)	Age	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Apr	May	Jun	
	42	9	1	-	-	-	-	-	-	-	-	-	-	-	-	-				10
45	25	3	-	-	-	-	-	-	-	-	-	-	-	-	-	28	-	-	54	
48	18	10	1	-	-	-	-	-	-	-	-	-	-	-	-	29	-	-	106	
51	2	27	-	-	-	-	-	-	-	-	-	-	-	-	-	29	-	-	158	
54	1	25	3	1	-	-	-	-	-	-	-	-	-	-	-	30	-	-	219	
57	-	24	4	1	-	-	-	-	-	-	-	-	-	-	-	29	-	-	193	
60	-	21	6	3	-	-	-	-	-	-	-	-	-	-	-	30	-	-	111	
63	-	12	15	2	-	-	-	-	-	-	-	-	-	-	-	29	-	-	66	
66	-	2	14	7	-	-	-	-	-	-	-	-	-	-	-	23	-	-	32	
69	-	-	5	16	-	1	-	-	-	-	-	-	-	-	-	22	-	-	25	
72	-	-	2	12	-	-	-	1	-	-	-	-	-	-	-	15	-	-	14	
75	-	-	2	9	1	-	-	-	-	-	-	-	-	-	-	12	-	-	9	
78	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	
81	-	-	-	-	2	-	2	-	-	-	-	-	-	-	-	4	-	-	3	
84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
87	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	1	
90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	
96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
120	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	
Total No. of Ages Read		55	125	52	53	4	1	2	1	-	-	-	1	-	-	1	295	1000		
Serial Numbers		No. of Age Samples																		
X		Number of fish measured each month															-	-	1733	
		Mean length of fish (cm) each month															-	-	56.6	
		Mean weight of fish (kg) each month															-	-	-	
		Total weight caught or landed (tons) each month															-	-	-	
		Estimated number caught or landed (whole numbers) each month															-	-	-	
		Range of depths (m) each month															-	-	-	
		Mesh size (mm)															-	-	-	

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Total
Apr	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jun	138	639	137	77	3	1	2	1	-	-	-	1	-	-	1	1000



TABLE 28  
(Cont'd)

AGE/LENGTH TABLE - COD - 1D - 1968 (3rd QUARTER)

GEAR		Hand Line (Research)									
CATCHES OR LANDINGS		NK									
COUNTRY		Denmark (Greenland)									
TONNAGE		< 50									
STRUCTURES USED IN AGE DETERMINATION		Otoliths									
Length Group (3 cm)	Age	3	4	5	6	7	NK	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
									Months Within Quarter		
									Jul	Aug	Sep
33	-	-	-	-	-	-	-	-	+ 20	-	-
36	-	-	-	-	-	-	-	-	+ 13	-	-
39	1	1	-	-	-	-	-	2	53	-	-
42	3	1	-	-	-	-	-	4	39	-	-
45	2	3	-	-	-	-	-	5	39	-	-
48	2	5	3	1	-	-	-	11	86	-	-
51	-	3	8	-	-	-	-	11	79	-	-
54	-	1	12	5	-	-	-	18	132	-	-
57	-	1	16	3	1	-	-	21	158	-	-
60	-	-	15	2	1	-	-	18	118	-	-
63	-	-	5	7	3	-	-	15	105	-	-
66	-	-	1	1	5	-	-	7	66	-	-
69	-	-	1	2	4	-	-	7	53	-	-
72	-	-	-	1	-	-	-	1	20	-	-
75	-	-	-	-	1	-	-	1	7	-	-
78	-	-	-	-	1	-	-	1	7	-	-
81	-	-	-	-	1	-	-	1	7	-	-
									1002	-	-
Total No. of Ages Read		8	15	61	22	17	-	123	X		
Serial Numbers		No. of Age Samples									
X		Number of fish measured each month							152	-	-
		Mean length of fish (cm) each month							56.6	-	-
		Mean weight of fish (kg) each month							-	-	-
		Total weight caught or landed (tons) each month							-	-	-
		Estimated number caught or landed (whole numbers) each month							-	-	-
		Range of depths (m) each month							-	-	-
		Mesh size (mm)							-	-	-

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	NK	Total
Jul	87	135	440	174	134	33	1003
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-

TABLE 28  
(Cont'd)

## AGE/LENGTH TABLE - COD - 1D - 1968 (3rd QUARTER)

GEAR		Hand Seine (Research)								
CATCHES OR LANDINGS		NK								
COUNTRY		Denmark (Greenland)								
TONNAGE		<50								
STRUCTURES USED IN AGE DETERMINATION		Otoliths								
Length Group (3 cm)	Age					Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
		2	3	4	5		Months Within Quarter			
		Jul	Aug	Sep						
15		13	-	-	-	13	29	-	-	
18		15	-	-	-	15	270	-	-	
21		15	-	-	-	15	403	-	-	
24		15	-	-	-	15	168	-	-	
27		6	10	-	-	16	44	-	-	
30		1	17	-	-	18	40	-	-	
33		-	13	-	-	13	28	-	-	
36		-	6	2	-	8	13	-	-	
39		-	1	1	-	2	2	-	-	
42		-	-	1	1	2	3	-	-	
45		-	-	-	-	-	1	-	-	
48		-	-	-	-	-	-	-	-	
51		-	-	-	1	1	1	-	-	
Total No. of Ages Read		65	47	4	2	118	1002	-	-	
Serial Numbers		No. of Age Samples								
X		Number of fish measured each month				1539	-	-		
		Mean length of fish (cm) each month				22.8	-	-		
		Mean weight of fish (kg) each month				-	-	-		
		Total weight caught or landed (tons) each month				-	-	-		
		Estimated number caught or landed (whole numbers) each month				-	-	-		
		Range of depths (m) each month				-	-	-		
		Mesh size (mm)				-	-	-		

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	2	3	4	5	Total
Jul	889	104	6	3	1002
Aug	-	-	-	-	-
Sep	-	-	-	-	-

TABLE 28  
(Cont'd)

## AGE/LENGTH TABLE - COD - 1D - 1968 (3rd QUARTER)

GEAR		Pound Net (Commercial)									
CATCHES OR LANDINGS		NK									
COUNTRY		Denmark (Greenland)									
TONNAGE		52.7 and 66.9									
STRUCTURES USED IN AGE DETERMINATION		Otoliths									
Length Group (3 cm)	Age	2	3	4	5	6	7	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
									Months Within Quarter		
									Jul	Aug	Sep
21		1	-	-	-	-	-	1	1	-	-
24		7	1	-	-	-	-	8	8	-	-
27		13	2	-	-	-	-	15	21	-	-
30		9	6	-	-	-	-	15	36	-	-
33		1	14	-	-	-	-	15	54	-	-
36		-	15	-	-	-	-	15	123	-	-
39		-	15	-	-	-	-	15	181	-	-
42		-	11	11	-	-	-	22	184	-	-
45		-	2	27	1	-	-	30	126	-	-
48		-	-	21	7	-	-	28	62	-	-
51		-	-	8	14	-	-	22	44	-	-
54		-	-	1	17	1	-	19	44	-	-
57		-	-	-	12	3	-	15	36	-	-
60		-	-	-	14	1	-	15	42	-	-
63		-	-	-	7	8	-	15	17	-	-
66		-	-	-	-	6	4	10	8	-	-
69		-	-	-	-	3	3	6	5	-	-
72		-	-	-	-	-	3	3	3	-	-
75		-	-	-	-	-	4	4	3	-	-
78		-	-	-	1	-	2	3	3	-	-
									1001	-	-
Total No. of Ages Read		31	66	68	73	22	16	276	X		
Serial Numbers		No. of Age Samples									
X		Number of fish measured each month							1180	-	-
		Mean length of fish (cm) each month							44.2	-	-
		Mean weight of fish (kg) each month							-	-	-
		Total weight caught or landed (tons) each month							-	-	-
		Estimated number caught or landed (whole numbers) each month							-	-	-
		Range of depths (m) each month							-	-	-
Mesh size (mm)							-	-	-		

## AGE COMPOSITIONS OF LANDINGS. (PER MILLE)

Month	2	3	4	5	6	7	Total
Jul	51	473	270	163	29	14	1000
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-

TABLE 28  
(Cont'd)

AGE/LENGTH TABLE - COD - 1D - 1968 (3rd QUARTER)

GEAR		T-Net, Gill Net and Salmon Net (NK)													
CATCHES OR LANDINGS		NK													
COUNTRY		Denmark (Greenland)													
TONNAGE		<50													
STRUCTURES USED IN AGE DETERMINATION		Otoliths													
Length Group (3 cm)	Age	2	3	4	5	6	7	8	9	10	11	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
		Months Within Quarter			Jul	Aug	Sep								
24	2	-	-	-	-	-	-	-	-	-	2	-	-	3	
27	2	-	-	-	-	-	-	-	-	-	2	-	-	3	
30	-	5	-	-	-	-	-	-	-	-	5	-	-	8	
33	-	11	1	-	-	-	-	-	-	-	12	-	-	36	
36	-	15	-	-	-	-	-	-	-	-	15	-	-	84	
39	-	12	2	1	-	-	-	-	-	-	15	-	-	97	
42	-	2	11	2	-	-	-	-	-	-	15	-	-	81	
45	-	-	10	5	-	-	-	-	-	-	15	-	-	105	
48	-	1	7	7	-	-	-	-	-	-	15	-	-	131	
51	-	-	-	15	-	-	-	-	-	-	15	-	-	180	
54	-	-	-	12	2	1	-	-	-	-	15	-	-	123	
57	-	-	-	11	4	-	-	-	-	-	15	-	-	68	
60	-	-	-	4	9	-	-	-	-	-	13	-	-	34	
63	-	-	-	1	4	2	-	-	-	-	7	-	-	13	
66	-	-	-	-	4	1	-	-	-	-	5	-	-	10	
69	-	-	-	-	2	2	-	-	-	-	4	-	-	10	
72	-	-	-	-	1	1	3	-	-	-	5	-	-	8	
75	-	-	-	-	-	1	1	-	-	-	2	-	-	3	
78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
105	-	-	-	-	-	-	-	-	-	1	1	-	-	2	
Total No. of Ages Read		4	46	31	58	26	8	4	-	-	1	178	999		
Serial Numbers		No. of Age Samples													
X		Number of fish measured each month										-	-	617	
		Mean length of fish (cm) each month										-	-	48.8	
		Mean weight of fish (kg) each month										-	-	-	
		Total weight caught or landed (tons) each month										-	-	-	
		Estimated number caught or landed (whole numbers) each month										-	-	-	
		Range of depths (m) each month										-	-	-	
		Mesh size (mm)										-	-	-	

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	2	3	4	5	6	7	8	9	10	11	Total
Jul	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-
Sep	6	222	206	454	80	22	6	-	-	2	998







TABLE 29  
(Cont'd)

## AGE/LENGTH TABLE - COD - 1E - 1968 (2nd QUARTER)

GEAR		Otter Trawl (Research)																Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
CATCHES OR LANDINGS		NK																	Months Within Quarter		
COUNTRY		Denmark (Faroes)																			
TONNAGE		900-1800																			
STRUCTURES USED IN AGE DETERMINATION		Otoliths																			
Length Group (3 cm)	Age	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Total No. of Ages Read	PER MILLE		
																			Apr	May	Jun
30	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	+	-
33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	1	+
39	-	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	4	1
42	-	5	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	13	12	4	3
45	-	2	38	2	-	-	-	-	-	-	-	-	-	-	-	-	-	42	101	27	14
48	-	3	65	11	-	-	-	-	-	-	-	-	-	-	-	-	-	79	199	88	52
51	-	-	61	22	-	-	-	-	-	-	-	-	-	-	-	-	-	83	208	103	77
54	-	-	50	32	5	-	-	-	-	-	-	-	-	-	-	-	-	87	163	89	91
57	-	-	35	40	6	-	-	-	-	-	-	-	-	-	-	-	-	81	120	86	83
60	-	-	16	43	16	1	-	-	-	-	-	-	-	-	-	-	-	76	60	96	81
63	-	-	2	34	39	2	-	-	-	-	-	-	-	-	-	-	-	77	34	115	91
66	-	-	4	26	46	9	-	-	-	-	-	-	-	-	-	-	-	85	36	102	99
69	-	-	1	22	46	10	1	-	-	-	-	-	-	-	-	-	-	80	21	85	101
72	-	-	-	5	51	12	3	-	2	-	-	-	-	-	-	-	-	73	24	67	76
75	-	-	-	3	37	21	1	2	2	-	-	-	-	-	-	-	-	66	10	51	65
78	-	-	-	1	25	25	5	2	-	-	-	-	-	-	-	-	-	58	5	36	52
81	-	-	-	1	22	16	2	-	8	-	-	-	-	-	-	-	-	49	2	28	32
84	-	-	-	-	9	7	3	1	3	1	-	1	-	-	-	-	-	25	3	10	19
87	-	-	-	-	7	7	-	4	2	1	-	-	-	-	-	-	-	21	-	6	16
90	-	-	-	-	2	2	-	2	3	-	-	1	-	-	-	-	-	10	-	2	14
93	-	-	-	-	1	4	2	4	3	-	-	-	-	-	-	1	-	15	-	-	14
96	-	-	-	-	-	-	-	2	-	6	-	-	-	1	-	-	-	9	-	+	13
99	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	3
102	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	+
105	-	-	-	-	-	-	-	1	-	-	-	-	1	1	-	-	-	3	-	-	1
108	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	+
111	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	+
114	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	+
117	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	+	-
Total No. of Ages Read		3	16	281	243	312	116	20	16	32	3	-	3	2	1	-	1	1049			
Serial Numbers		No. of Age Samples																			
		Number of fish measured each month																582	2540	3477	
		Mean length of fish (cm) each month																54.8	62.7	66.4	
		Mean weight of fish (kg) each month																-	-	-	
		Total weight caught or landed (tons) each month																-	-	-	
		Estimated number caught or landed (whole numbers) each month																-	-	-	
		Range of depths (m) each month																347	165-347	183-293	
		Mesh size (mm)																-	-	-	

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Total
Apr	-	17	576	276	106	19	2	1	2	+	-	+	-	-	-	-	999
May	1	9	293	284	304	83	10	5	10	1	-	1	-	-	-	-	1001
Jun	-	5	228	257	328	110	18	14	29	2	-	2	2	+	-	1	996

TABLE 29  
(Cont'd)

## AGE/LENGTH TABLE - COD - 1E - 1968 (2nd QUARTER)

GEAR		Midwater-Trawl (Commercial)														
CATCHES OR LANDINGS		Catches														
COUNTRY		Germany, Federal Republic														
TONNAGE		2557														
STRUCTURES USED IN AGE DETERMINATION		Otoliths														
Length Group (3 cm)	Age	5	6	7	8	9	10	11	12	13	14	15	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
														Months Within Quarter	Apr	May
48	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	5
51	2	1	-	-	-	-	-	-	-	-	-	-	3	-	-	15
54	2	-	1	-	-	-	-	-	-	-	-	-	3	-	-	15
57	4	9	1	-	-	-	-	-	-	-	-	-	14	-	-	70
60	3	9	5	-	-	-	-	-	-	-	-	-	17	-	-	85
63	3	14	7	-	-	-	-	-	-	-	-	-	24	-	-	126
66	-	18	13	3	-	-	-	-	-	-	-	-	34	-	-	176
69	-	6	14	7	-	-	-	-	-	-	-	-	27	-	-	136
72	-	2	11	2	1	-	-	-	-	-	-	-	16	-	-	86
75	-	2	12	4	-	-	-	-	-	-	-	-	18	-	-	90
78	-	-	14	2	-	1	1	-	-	-	-	-	18	-	-	101
81	-	-	5	6	-	-	-	-	-	-	-	-	11	-	-	55
84	-	-	-	2	-	-	2	-	-	-	-	-	4	-	-	20
87	-	-	1	1	-	-	-	-	-	-	-	-	2	-	-	10
90	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	5
93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	5
													-	-	1000	
Total No. of Ages Read		15	61	84	28	1	1	3	-	-	-	1	194			
Serial Numbers	34												No. of Age Samples			
													Number of fish measured each month	-	-	199
													Mean length of fish (cm) each month	-	-	70.1
													Mean weight of fish (kg) each month	-	-	-
													Total weight caught or landed (tons) each month	-	-	-
													Estimated number caught or landed (whole numbers) each month	-	-	-
													Range of depths (m) each month	-	-	-
													Mesh size (mm)	-	-	130

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	5	6	7	8	9	10	11	12	13	14	15	Total
Apr	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-
Jun	76	321	438	143	5	6	15	-	-	-	5	1000

TABLE 29  
(Cont'd)

## AGE/LENGTH TABLE - COD - 1E - 1968 (2nd QUARTER)

GEAR		Midwater Trawl (Commercial)												
CATCHES OR LANDINGS		Catches												
COUNTRY		Germany, Federal Republic												
TONNAGE		1581												
STRUCTURES USED IN AGE DETERMINATION		Otoliths												
Length Group (3 cm)	Age	5	6	7	8	9	10	11	12	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
											Months Within Quarter			
											Apr	May	Jun	
42		1	-	-	-	-	-	-	-	1	-	-	5	
45		-	-	-	-	-	-	-	-	-	-	-	-	
48		4	-	-	-	-	-	-	-	4	-	-	20	
51		-	-	-	-	-	-	-	-	-	-	-	-	
54		2	-	-	-	-	-	-	-	2	-	-	10	
57		4	-	3	-	-	-	-	-	7	-	-	35	
60		1	7	3	-	-	-	-	-	11	-	-	56	
63		4	10	15	1	-	-	-	-	30	-	-	157	
66		1	19	15	1	-	-	-	-	36	-	-	182	
69		-	11	15	-	-	-	-	-	26	-	-	141	
72		-	6	24	5	-	-	-	-	35	-	-	177	
75		-	1	12	3	-	-	-	-	16	-	-	81	
78		-	1	12	3	-	-	-	-	16	-	-	81	
81		-	-	4	1	1	-	1	-	7	-	-	35	
84		-	-	1	-	-	-	-	-	1	-	-	5	
87		-	-	2	1	-	-	-	-	3	-	-	15	
Total No. of Ages Read		17	55	106	15	1	-	1	-	195			1000	
Serial Numbers	31										No. of Age Samples	1		
X		Number of fish measured each month										-	-	198
		Mean length of fish (cm) each month										-	-	69.9
		Mean weight of fish (kg) each month										-	-	-
		Total weight caught or landed (tons) each month										-	-	-
		Estimated number caught or landed (whole numbers) each month										-	-	-
		Range of depths (m) each month										-	-	-
		Mesh size (mm)										-	-	130

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	5	6	7	8	9	10	11	12	Total
Apr	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-
Jun	85	285	545	75	5	-	5	-	1000

TABLE 29  
(Cont'd)

## AGE/LENGTH TABLE - COD - 1E - 1968 (3rd QUARTER)

GEAR		Otter Trawl (Research)								
CATCHES OR LANDINGS		Catches								
COUNTRY		Germany, Federal Republic								
TONNAGE		2000								
STRUCTURES USED IN AGE DETERMINATION		Otoliths								
Length Group (3 cm)	Age	4	5	6	7	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
							Months Within Quarter			
							Jul	Aug	Sep	
33	1	-	-	-	-	1	-	3	-	
36	2	2	2	-	-	4	-	38	-	
39	7	1	1	-	-	8	-	106	-	
42	4	9	9	-	-	13	-	134	-	
45	2	15	15	2	-	19	-	180	-	
48	1	15	15	4	-	20	-	163	-	
51	-	10	10	3	-	13	-	114	-	
54	-	4	4	1	2	7	-	87	-	
57	-	2	2	1	1	4	-	57	-	
60	-	-	-	8	-	8	-	54	-	
63	-	-	-	1	1	2	-	25	-	
66	-	-	-	1	1	2	-	14	-	
69	-	-	-	-	1	1	-	11	-	
72	-	-	-	-	1	1	-	14	-	
Total No. of Ages Read							103	-	1000	-
Serial Numbers		W.H. 101			No. of Age Samples		1			
Number of fish measured each month							-	367	-	
Mean length of fish (cm) each month							-	50.0	-	
Mean weight of fish (kg) each month							-	-	-	
Total weight caught or landed (tons) each month							-	3	-	
Estimated number caught or landed (whole numbers) each month							-	3303	-	
Range of depths (m) each month							-	100	-	
Mesh size (mm)							-	130	-	
AGE COMPOSITIONS OF LANDINGS (PER MILLE)										
Month	4	5	6	7	Total					
Jul	-	-	-	-	-					
Aug	183	557	177	83	1000					
Sep	-	-	-	-	-					







TABLE 30  
(Cont'd)

## AGE/LENGTH TABLE - COD - 1F - 1968 (3rd QUARTER)

GEAR		Otter Trawl (Research)								
CATCHES OR LANDINGS		Catches								
COUNTRY		Germany, Federal Republic								
TONNAGE		1599								
STRUCTURES USED IN AGE DETERMINATION		Otoliths								
Length Group (3 cm)	Age	4	5	6	7	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
							Months Within Quarter			
							Jul	Aug	Sep	
27	1	-	-	-	-	1	-	-	-	
30	-	-	-	-	-	-	-	3	-	
33	1	-	-	-	-	1	-	9	-	
36	6	3	-	-	-	9	-	70	-	
39	9	3	-	-	-	12	-	130	-	
42	4	18	-	-	-	22	-	164	-	
45	2	24	2	-	-	28	-	182	-	
48	2	22	8	-	-	32	-	162	-	
51	-	22	7	-	-	29	-	125	-	
54	-	14	6	2	-	22	-	69	-	
57	-	5	6	1	-	12	-	35	-	
60	-	1	12	5	-	18	-	23	-	
63	-	-	1	7	-	8	-	15	-	
66	-	-	-	5	13	18	-	5	-	
69	-	-	-	-	6	6	-	3	-	
72	-	-	-	-	2	2	-	5	-	
							-	1000	-	
Total No. of Ages Read		25	112	47	36	220	X			
Serial Numbers	DB	No. of Age Samples				1				
X							Number of fish measured each month	-	1058	-
							Mean length of fish (cm) each month	-	47.6	-
							Mean weight of fish (kg) each month	-	-	-
							Total weight caught or landed (tons) each month	-	-	-
							Estimated number caught or landed (whole numbers) each month	-	-	-
							Range of depths (m) each month	-	120-140	-
							Mesh size (mm)	-	130	-

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	4	5	6	7	Total
Jul	-	-	-	-	-
Aug	207	618	135	40	1000
Sep	-	-	-	-	-



TABLE 30  
(Cont'd)

## AGE/LENGTH TABLE - COD - 1F - 1968 (3rd QUARTER)

GEAR		T-Net (Research)													
CATCHES OR LANDINGS		NK													
COUNTRY		Denmark (Greenland)													
TONNAGE		< 50													
STRUCTURES USED IN AGE DETERMINATION		Otoliths													
Length Group (3cm)	Age	3	4	5	6	7	8	9	10	11	12	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
													Months Within Quarter	Jul	Aug
36		1	3	1	-	-	-	-	-	-	-	5	-	-	45
39		-	11	4	-	-	-	-	-	-	-	15	-	-	152
42		1	14	12	2	-	-	-	-	-	-	29	-	-	259
45		-	5	13	-	-	-	-	-	-	-	18	-	-	170
48		1	-	9	1	-	-	-	-	-	-	11	-	-	125
51		-	1	2	3	-	-	-	-	-	-	6	-	-	89
54		-	-	2	2	-	-	-	-	-	-	4	-	-	54
57		-	-	-	2	1	-	-	-	-	-	3	-	-	36
60		-	-	4	2	-	-	-	-	-	-	6	-	-	54
63		-	-	-	-	-	-	-	-	-	-	-	-	-	-
66		-	-	-	-	-	-	-	-	-	-	-	-	-	-
69		-	-	-	1	-	-	-	-	-	-	1	-	-	9
72		-	-	-	-	-	-	-	-	-	-	-	-	-	-
75		-	-	-	-	-	-	-	-	-	-	-	-	-	-
78		-	-	-	-	-	-	-	-	-	-	-	-	-	-
81		-	-	-	-	-	-	-	-	-	-	-	-	-	-
84		-	-	-	-	-	-	-	-	-	-	-	-	-	-
87		-	-	-	-	-	-	-	-	-	-	-	-	-	-
90		-	-	-	-	-	-	-	-	-	-	-	-	-	-
93		-	-	-	-	-	-	-	-	-	-	-	-	-	-
96		-	-	-	-	-	-	-	-	-	-	-	-	-	-
99		-	-	-	-	-	-	-	-	-	1	1	-	-	9
Total No. of Ages Read		3	34	47	13	1	-	-	-	-	1	99			1002
Serial Numbers		No. of Age Samples													
	Number of fish measured each month												-	-	112
	Mean length of fish (cm) each month												-	-	47.2
	Mean weight of fish (kg) each month												-	-	-
	Total weight caught or landed (tons) each month												-	-	-
	Estimated number caught or landed (whole numbers) each month												-	-	-
	Range of depths (m) each month												-	-	-
	Mesh size (mm)												-	-	-

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	9	10	11	12	Total
Jul	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-
Sep	29	326	475	152	12	-	-	-	-	9	1003



TABLE 31

AGE/LENGTH TABLE - COD - EAST GREENLAND<sup>1</sup> - 1968 (1st QUARTER)

GEAR		Otter Trawl (Commercial)												
CATCHES OR LANDINGS		Landings												
COUNTRY		Germany, Federal Republic												
TONNAGE		922												
STRUCTURES USED IN AGE DETERMINATION		Otoliths												
Length Group (3 cm)	Age	5	6	7	8	9	10	11	12	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
											Months Within Quarter			
											Jan	Feb	Mar	
54		2	-	-	-	-	-	-	-	2	-	-	2	
57		1	1	1	-	-	-	-	-	3	-	-	6	
60		1	2	4	-	-	-	-	-	7	-	-	56	
63		4	2	1	-	-	-	-	-	7	-	-	62	
66		6	3	4	-	-	-	-	-	13	-	-	147	
69		3	3	5	-	-	-	-	-	11	-	-	100	
72		1	2	12	1	-	-	-	-	16	-	-	135	
75		-	-	9	-	-	-	-	-	9	-	-	110	
78		-	1	8	1	-	-	-	-	10	-	-	130	
81		-	1	5	3	-	1	-	-	10	-	-	103	
84		-	2	3	2	-	2	-	-	9	-	-	45	
87		-	1	8	2	1	3	2	1	18	-	-	48	
90		-	-	2	1	-	5	2	1	11	-	-	24	
93		-	-	-	2	-	4	2	-	8	-	-	17	
96		-	-	2	-	1	2	1	-	6	-	-	9	
99		-	-	-	-	-	1	1	1	3	-	-	4	
102		-	-	-	-	-	-	-	-	-	-	-	-	
105		-	-	-	-	-	-	-	-	-	-	-	1	
108		-	-	-	-	-	-	-	-	-	-	-	-	
111		-	-	-	-	-	-	-	-	-	-	-	1	
											-	-	1000	
Total No. of Ages Read		18	18	64	12	2	18	8	3	143				
Serial Numbers	17	No. of Age Samples												1
											Number of fish measured each month	-	-	391
											Mean length of fish (cm) each month	-	-	75.4
											Mean weight of fish (kg) each month	-	-	-
											Total weight caught or landed (tons) each month	-	-	148
											Estimated number caught or landed (whole numbers) each month	-	-	47698
											Range of depths (m) each month	-	-	-
											Mesh size (mm)	-	-	130

AGE COMPOSITIONS OF LANDINGS (PER MILLE)									
Month	5	6	7	8	9	10	11	12	Total
Jan	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-
Mar	150	148	549	73	3	54	17	6	1000

<sup>1</sup> Angmagssalik

TABLE 31  
(Cont'd)AGE/LENGTH TABLE - COD - EAST GREENLAND<sup>1</sup> - 1968 (1st QUARTER)

GEAR		Otter Trawl (Commercial)														
CATCHES OR LANDINGS		Landings														
COUNTRY		Germany, Federal Republic														
TONNAGE		565														
STRUCTURES USED IN AGE DETERMINATION		Otoliths														
Length Group (3 cm)	Age	4	5	6	7	8	9	10	11	12	13	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
													Months Within Quarter			
													Jan	Feb	Mar	
45	1	-	-	-	-	-	-	-	-	-	-	1	4	-	-	
48	-	1	-	-	-	-	-	-	-	-	-	1	11	-	-	
51	3	-	-	-	-	-	-	-	-	-	-	3	36	-	-	
54	1	3	1	1	-	-	-	-	-	-	-	6	68	-	-	
57	-	10	1	1	-	-	-	-	-	-	-	12	125	-	-	
60	-	7	1	1	-	-	-	-	-	-	-	9	112	-	-	
63	-	3	3	3	-	-	-	-	-	-	-	9	67	-	-	
66	-	1	3	7	-	-	-	-	-	-	-	11	78	-	-	
69	-	-	1	11	1	-	-	-	-	-	-	4	94	-	-	
72	-	2	4	13	1	-	-	-	-	-	-	20	105	-	-	
75	-	-	1	12	-	-	-	-	-	-	-	13	77	-	-	
78	-	-	2	12	-	-	-	-	-	-	-	14	84	-	-	
81	-	-	-	5	-	1	2	1	-	1	-	10	38	-	-	
84	-	-	-	7	2	2	4	-	-	-	-	15	33	-	-	
87	-	-	-	2	-	2	5	-	-	-	-	9	23	-	-	
90	-	-	-	-	-	-	5	-	2	-	-	7	19	-	-	
93	-	-	-	-	-	-	5	1	1	-	-	7	10	-	-	
96	-	-	-	-	-	-	2	1	1	-	-	4	8	-	-	
99	-	-	-	-	-	-	1	1	1	-	-	3	4	-	-	
102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
105	-	-	-	-	-	-	-	-	-	2	-	2	4	-	-	
													1000	-	-	
Total No. of Ages Read		4	27	17	75	4	6	24	4	6	1	168				
Serial Numbers	6	No. of Age Samples											1			
X	Number of fish measured each month												417	-	-	
	Mean length of fish (cm) each month												69.4	-	-	
	Mean weight of fish (kg) each month												-	-	-	
	Total weight caught or landed (tons) each month												106	-	-	
	Estimated number caught or landed (whole numbers) each month												38996	-	-	
	Range of depths (m) each month												-	-	-	
Mesh size (mm)												130	-	-		

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	4	5	6	7	8	9	10	11	12	13	Total
Jan	51	278	122	438	16	14	57	8	12	4	1000
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-	-	-

<sup>1</sup> Dohrn Bank

TABLE 31  
(Cont'd)AGE/LENGTH TABLE - COD - EAST GREENLAND<sup>1</sup> - 1968 (2nd QUARTER)

GEAR		Otter Trawl (Commercial)													Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
CATCHES OR LANDINGS		Landings														Months Within Quarter		
COUNTRY		Germany, Federal Republic																
TONNAGE		501-900																
STRUCTURES USED IN AGE DETERMINATION		Otoliths																
Length Group (3 cm)	Age	4	5	6	7	8	9	10	11	12	13	14	15	Apr	May	Jun		
		42		2	-	-	-	-	-	-	-	-	-				-	2
45		-	-	-	-	-	-	-	-	-	-	-	-	-	1	-		
48		4	5	-	-	-	-	-	-	-	-	-	9	-	5	1		
51		5	5	1	-	-	-	-	-	-	-	-	11	-	12	1		
54		1	12	2	1	-	-	-	-	-	-	-	16	-	16	3		
57		7	7	5	2	-	-	-	-	-	-	-	21	-	42	13		
60		3	17	1	5	-	-	-	-	-	-	-	26	-	51	20		
63		3	14	6	8	-	-	-	-	-	-	-	31	-	69	37		
66		-	8	8	16	-	-	-	-	-	-	-	32	-	80	102		
69		-	9	9	31	-	-	-	-	-	-	-	49	-	132	104		
72		-	6	5	38	1	1	-	-	-	-	-	51	-	150	178		
75		-	3	3	47	1	1	-	-	-	-	-	55	-	127	186		
78		-	1	3	41	-	-	-	-	-	-	-	45	-	134	121		
81		-	-	4	39	5	1	1	-	-	-	-	50	-	77	104		
84		-	1	4	27	5	-	3	1	-	-	-	41	-	60	51		
87		-	-	1	12	2	3	4	2	-	-	-	24	-	19	42		
90		-	-	1	4	1	1	2	-	1	-	-	10	-	13	12		
93		-	-	-	2	1	-	3	3	1	-	-	10	-	5	4		
96		-	-	-	2	1	-	2	1	1	-	1	8	-	3	10		
99		-	-	-	-	-	-	-	1	2	-	-	4	-	2	4		
102		-	-	-	-	-	-	2	1	-	-	-	3	-	-	5		
105		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
108		-	-	-	-	-	-	-	-	-	-	1	1	-	-	2		
111		-	-	-	-	-	-	-	-	1	-	-	1	-	1	-		
114		-	-	-	-	-	-	-	-	1	-	-	1	-	-	-		
117		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
120		-	-	-	-	-	-	-	-	1	-	-	1	-	-	-		
Total No. of Ages Read		25	88	53	275	17	7	17	9	8	-	1	2	502				
Serial Numbers	27, 28, 29	No. of Age Samples											3					
X	Number of fish measured each month														-	954	358	
	Mean length of fish (cm) each month														-	73.5	76.0	
	Mean weight of fish (kg) each month														-	-	-	
	Total weight caught or landed (tons) each month														-	135	63	
	Estimated number caught or landed (whole numbers) each month														-	45718	19850	
	Range of depths (m) each month														-	-	-	
Mesh size (mm)														-	130	130		

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	4	5	6	7	8	9	10	11	12	13	14	15	Total
Apr	-	-	-	-	-	-	-	-	-	-	-	-	-
May	35	168	118	622	24	4	22	2	4	-	-	1	1000
Jun	1	123	111	672	25	30	13	17	4	-	2	2	1000

<sup>1</sup> Dohrn Bank





TABLE 31  
(Cont'd)

## AGE/LENGTH TABLE - COD - EAST GREENLAND - 1968 (3rd QUARTER)

GEAR		Otter Trawl (Commercial)									
CATCHES OR LANDINGS		Landings									
COUNTRY		Iceland									
TONNAGE		NK									
STRUCTURES USED IN AGE DETERMINATION		NK									
Length Group (3 cm)	Age	4	5	6	7	8	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
								Months Within Quarter			
								Jul	Aug	Sep	
39		-	1	-	-	-	1	-	2	-	
42		-	-	-	-	-	-	-	4	-	
45		-	-	-	-	-	-	-	7	-	
48		1	-	1	-	-	2	-	20	-	
51		2	4	2	-	-	8	-	73	-	
54		2	8	1	-	-	11	-	120	-	
57		-	8	-	-	-	8	-	82	-	
60		-	4	1	-	-	5	-	53	-	
63		-	3	2	-	-	5	-	78	-	
66		-	3	1	1	-	5	-	84	-	
69		-	1	3	3	-	7	-	78	-	
72		-	2	-	8	-	11	-	97	-	
75		-	1	2	7	1	11	-	100	-	
78		-	-	-	8	-	8	-	77	-	
81		-	-	1	3	1	5	-	53	-	
84		-	-	-	6	-	6	-	40	-	
87		-	-	-	3	-	3	-	16	-	
90		-	-	-	2	-	2	-	11	-	
93		-	-	-	-	-	-	-	-	-	
96		-	-	-	-	-	-	-	-	-	
99		-	-	-	-	-	-	-	-	-	
102		-	-	-	-	-	-	-	-	-	
105		-	-	-	-	-	-	-	2	-	
108		-	-	-	-	-	-	-	2	-	
Total No. of Ages Read		5	35	14	41	3	98	999			
Serial Numbers	No. of Age Samples 1										
Number of fish measured each month								-	548	-	
Mean length of fish (cm) each month								-	67.42	-	
Mean weight of fish (kg) each month								-	-	-	
Total weight caught or landed (tons) each month								-	-	-	
Estimated number caught or landed (whole numbers) each month								-	-	-	
Range of depths (m) each month								-	-	-	
Mesh size (mm)								-	-	-	

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	4	5	6	7	8	Total
Jul	-	-	-	-	-	-
Aug	51	391	163	366	29	1000
Sep	-	-	-	-	-	-

TABLE 32

AGE/LENGTH TABLE - COD - SOUTHEAST GREENLAND - 1968 (1st QUARTER)

GEAR		Otter Trawl (Commercial)																	
CATCHES OR LANDINGS		Landings																	
COUNTRY		Germany, Federal Republic																	
TONNAGE		825																	
STRUCTURES USED IN AGE DETERMINATION		Otoliths																	
Length Group (3 cm)	Age	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
															Months Within Quarter				
													Jan	Feb	Mar				
51		6	1	-	-	-	-	-	-	-	-	-	-	-	7	-	13	-	
54		2	3	2	-	-	-	-	-	-	-	-	-	-	7	-	16	-	
57		2	4	1	-	-	-	-	-	-	-	-	-	-	7	-	10	-	
60		2	2	1	-	-	-	-	-	-	-	-	-	-	5	-	34	-	
63		-	3	8	-	-	-	-	-	-	-	-	-	-	11	-	51	-	
66		-	4	8	-	-	-	-	-	-	-	-	-	-	12	-	89	-	
69		-	2	6	-	-	-	-	-	-	-	-	-	-	8	-	139	-	
72		-	-	10	2	-	-	-	-	-	-	-	-	-	12	-	136	-	
75		-	-	7	4	-	1	-	-	-	-	-	-	-	12	-	177	-	
78		-	-	7	4	-	2	-	1	-	-	-	-	-	14	-	98	-	
81		-	-	10	-	1	1	2	-	-	-	-	-	-	14	-	85	-	
84		-	-	7	1	-	6	2	-	-	-	-	-	-	16	-	75	-	
87		-	-	2	2	-	1	1	-	-	-	-	-	-	6	-	23	-	
90		-	-	-	1	-	2	1	-	-	-	-	-	-	4	-	20	-	
93		-	-	-	-	1	1	1	1	-	-	-	-	-	4	-	13	-	
96		-	-	-	-	1	1	-	-	-	-	-	-	-	2	-	9	-	
99		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	
102		-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	2	-	
105		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	
108		-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	-	
111		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
114		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
Total No. of Ages Read		12	19	69	14	3	15	8	2	-	-	-	-	-	1	123	X		
Serial Numbers	9														No. of Age Samples	1	X		
X		Number of fish measured each month													-	330	-		
		Mean length of fish (cm) each month													-	75.3	-		
		Mean weight of fish (kg) each month													-	-	-		
		Total weight caught or landed (tons) each month													-	47	-		
		Estimated number caught or landed (whole numbers) each month													-	14751	-		
		Range of depths (m) each month													-	-	-		
		Mesh size (mm)													-	130	-		
AGE COMPOSITIONS OF LANDINGS (PER MILLE)																			
Month	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Total				
Jan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Feb	31	108	579	127	13	89	40	10	-	-	-	-	-	3	1000				
Mar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				



TABLE 33

AGE/LENGTH TABLE - COD - 21 - 1968 (1st QUARTER)

GEAR		Otoler Trawl (Commercial)														
CATCHES OR LANDINGS		NK														
COUNTRY		Portugal														
TONNAGE		1269														
STRUCTURES USED IN AGE DETERMINATION		Otolirhs														
Length Group (3cm)	Age	4	5	6	7	8	9	10	11	12	13	14	Total No. of Ages head	LENGTH COMPOSITION PER MILLE		
														Months Within Quarter		
												Jan	Feb	Mar		
30	1	-	-	-	-	-	-	-	-	-	-	1	-	1	-	
33	-	2	-	-	-	-	-	-	-	-	-	2	-	3	-	
36	7	6	1	-	-	-	-	-	-	-	-	14	-	15	-	
39	1	28	1	-	-	-	-	-	-	-	-	30	-	55	-	
42	1	59	20	-	-	-	-	-	-	-	-	71	-	116	-	
45	-	55	49	4	-	-	-	-	-	-	-	108	-	194	-	
48	-	9	61	9	-	-	-	-	-	-	-	79	-	148	-	
51	-	3	39	16	3	-	-	-	1	-	-	62	-	110	-	
54	-	1	34	30	2	-	-	-	-	-	-	67	-	108	-	
57	-	-	15	18	7	1	-	-	-	-	-	41	-	81	-	
60	-	-	3	21	7	2	-	-	-	-	-	33	-	63	-	
63	-	-	2	8	4	5	1	3	2	-	-	25	-	43	-	
66	-	-	-	5	8	3	4	-	1	-	-	21	-	30	-	
69	-	-	-	2	-	4	4	-	-	-	-	10	-	12	-	
72	-	-	-	-	-	3	1	-	-	-	1	5	-	12	-	
75	-	-	-	-	-	1	1	2	-	-	-	4	-	5	-	
78	-	-	-	-	-	-	-	-	1	-	-	1	-	2	-	
81	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
84	-	-	-	-	-	-	1	-	-	-	-	1	-	2	-	
Total No. of Ages Read		10	154	225	113	31	19	12	6	4	-	1	575	X		
Serial Numbers 1-2-3-5-7-10 with lengths		No. of Age Samples 4-6-8-9 Lengths only														
X		Number of fish measured each month												-	1041	-
		Mean length of fish (cm) each month												-	51.5	-
		Mean weight of fish (kg) each month												-	-	-
		Total weight caught or landed (tons) each month												-	13534	-
		Estimated number caught or landed (whole numbers) each month												-	-	-
		Range of depths (m) each month												-	260-400	-
		Mesh size (mm)												-	114	-
AGE COMPOSITIONS OF LANDINGS (PER MILLE)																
Month	4	5	6	7	8	9	10	11	12	13	14	Total				
Jan	-	-	-	-	-	-	-	-	-	-	-	-				
Feb	12	265	401	200	59	32	13	9	7	-	2	1000				
Mar	-	-	-	-	-	-	-	-	-	-	-	-				

TABLE 33  
(Cont'd)

## AGE/LENGTH TABLE - COD - 2.1 - 1968 (1st QUARTER)

GEAR		Otter Trawl (Research)																	
CATCHES OR LANDINGS																Catches			
COUNTRY																USSR			
TONNAGE																2800 and 3600			
STRUCTURES USED IN AGE DETERMINATION		Otoliths																	
Length Group (3 cm)	Age	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
																	Months Within Quarter		
															Jan	Feb	Mar		
27		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2
30		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3
33		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	11
36		-	7	1	1	-	-	-	-	-	-	-	-	-	-	-	9	12	44
39		-	12	10	-	-	-	-	-	-	-	-	-	-	-	-	22	33	82
42		-	16	48	10	-	-	-	-	-	-	-	-	-	-	-	74	73	144
45		-	4	77	35	3	-	1	-	-	-	-	-	-	-	-	120	120	168
48		-	-	22	66	17	1	-	-	1	-	-	-	-	-	-	107	142	168
51		-	-	4	69	39	1	-	-	-	-	-	-	-	-	-	113	145	124
54		-	-	-	12	33	8	2	1	-	-	-	-	-	-	-	56	148	82
57		-	-	-	1	25	32	9	-	-	-	-	-	-	-	-	67	103	55
60		-	-	-	-	4	28	7	4	3	1	-	-	-	-	-	47	83	44
63		-	-	-	-	1	14	5	1	-	1	-	-	-	-	-	22	56	23
66		-	-	-	-	-	6	10	5	2	-	-	-	-	-	-	23	36	14
69		-	-	-	-	-	-	6	9	-	2	1	-	-	-	-	18	20	9
72		-	-	-	-	-	1	3	-	-	1	1	-	-	-	-	6	10	7
75		-	-	-	-	-	-	-	1	2	-	1	-	-	-	1	5	7	7
78		-	-	-	-	-	-	-	1	1	1	-	-	1	-	-	4	4	3
81		-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	3
84		-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1	2
87		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2
90		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
93		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
96		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
99		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
102		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
105		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
108		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Total No. of Ages Read		1	39	162	194	122	91	43	22	8	7	3	1	1	2	696			
Serial Numbers		No. of Age Samples 3																	
X		Number of fish measured each month														8718	20503	5229	
		Mean length of fish (cm) each month														53.44	53.71	49.63	
		Mean weight of fish (kg) each month														-	1.639	0.965	
		Total weight caught or landed (tons) each month														6008	23013	16181	
		Estimated number caught or landed (whole numbers) each month														-	14040878	16767870	
		Range of depths (m) each month														119-222	111-292	135-222	
		Mesh size (mm)														110	110	110	

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Total
Jan	5	47	175	256	211	169	73	33	12	11	4	1	1	2	1000
Feb	4	58	179	237	193	175	79	36	14	12	5	2	2	4	1000
Mar	11	117	285	274	149	87	36	16	8	7	3	2	1	4	1000

TABLE 33  
(Cont'd)

## AGE/LENGTH TABLE - COD - 2J - 1968 (2nd QUARTER)

GEAR		Otter Trawl (Research)													Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
CATCHES OR LANDINGS		Catches														Months Within Quarter		
COUNTRY		USSR																
TONNAGE		3600																
STRUCTURES USED IN AGE DETERMINATION		Otoliths																
Length Group (3 cm)	Age	3	4	5	6	7	8	9	10	11	12	13	14	15	Total No. of Ages Read	PER MILLE		
																Apr	May	Jun
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
30	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	9
33	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	7	11
36	1	15	16	-	-	-	-	-	-	-	-	-	-	-	-	-	32	53
39	2	23	49	8	-	-	-	-	-	-	-	-	-	-	-	-	82	139
42	-	26	84	32	2	-	-	-	-	-	-	-	-	-	-	-	144	186
45	-	10	83	54	6	1	-	-	-	-	-	-	-	-	-	-	154	182
48	-	2	24	109	24	1	-	-	-	-	-	-	-	-	-	-	160	131
51	-	-	3	38	27	6	1	-	-	-	-	-	-	-	-	-	75	125
54	-	-	-	8	38	16	2	-	-	-	-	-	-	-	-	-	64	60
57	-	-	-	2	29	23	5	1	-	-	-	-	-	-	-	-	60	37
60	-	-	-	-	3	20	19	4	-	1	-	-	-	-	-	-	47	35
63	-	-	-	-	-	11	8	4	2	4	-	-	-	-	-	-	29	14
66	-	-	-	-	-	2	1	3	7	3	-	-	-	1	-	-	17	7
69	-	-	-	-	-	2	3	4	6	-	-	-	-	-	-	-	15	3
72	-	-	-	-	-	-	1	1	-	2	-	-	-	-	-	-	4	1
75	-	-	-	-	-	-	1	-	-	2	1	-	-	-	-	-	4	1
78	-	-	-	-	-	-	-	1	-	1	1	-	-	-	-	-	4	-
81	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-
84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
87	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-
90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
93	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-
Total No. of Ages Read	3	79	259	252	129	82	41	19	15	13	2	3	1	898	1000 1000 1000			
Serial Numbers	No. of Age Samples 3																	
X	Number of fish measured each month													4906	1217	2000		
	Mean length of fish (cm) each month													54.99	46.06	46.97		
	Mean weight of fish (kg) each month													1.416	0.871	0.892		
	Total weight caught or landed (tons) each month													3992	6264	4007		
	Estimated number caught or landed (whole numbers) each month													2819209	7191733	4492152		
	Range of depths (m) each month													238-357	247-406	238-386		
Mesh size (mm)													110	110	110			

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	9	10	11	12	13	14	15	Total
Apr	2	54	158	174	175	183	110	50	39	40	5	6	3	999
May	6	143	401	262	101	48	21	8	4	5	1	1	0	1001
Jun	5	126	343	289	131	63	26	8	5	5	0	0	0	1001



TABLE 33  
(Cont'd)

AGE/LENGTH TABLE - COD - 2J - 1968 (3rd QUARTER)

GEAR		Pair Trawl (Commercial)										
CATCHES OR LANDINGS		NK										
COUNTRY		Spain										
TONNAGE		NK										
STRUCTURES USED IN AGE DETERMINATION		Otoliths										
Length Group (3 cm)	Age	4	5	6	7	8	9	10	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
										Months Within Quarter	Jul	Aug
30		-	-	-	-	-	-	-	-	-	-	9
33		-	-	-	-	-	-	-	-	-	-	25
36		-	-	-	-	-	-	-	-	-	-	45
39		-	-	-	-	-	-	-	-	-	-	94
42		3	-	-	-	-	-	-	3	-	-	120
45		3	1	-	-	-	-	-	4	-	-	143
48		1	3	-	-	-	-	-	4	-	-	125
51		1	1	-	-	-	-	-	2	-	-	115
54		2	2	-	-	-	-	-	4	-	-	109
57		-	2	-	-	-	-	-	2	-	-	101
60		-	2	-	-	-	-	-	2	-	-	69
63		-	-	1	-	1	-	-	2	-	-	29
66		-	-	-	-	-	-	-	-	-	-	10
69		-	-	-	-	-	-	-	-	-	-	6
72		-	-	-	-	-	-	-	-	-	-	1
75		-	-	-	1	-	-	-	1	-	-	1
78		-	-	-	-	-	-	1	1	-	-	1
Total No. of Ages Read		10	11	1	1	1	-	1	25	1003		
Serial Numbers		No. of Age Samples										
X		Number of fish measured each month								-	-	1433
		Mean length of fish (cm) each month								-	-	49.66
		Mean weight of fish (kg) each month								-	-	-
		Total weight caught or landed (tons) each month								-	-	-
		Estimated number caught or landed (whole numbers) each month								-	-	-
		Range of depths (m) each month								-	-	300-350
		Mesh size (mm)								-	-	-

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	4	5	6	7	8	9	10	Total
Jul	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-
Sep	458	508	17	1	17	-	1	1002



TABLE 33  
(Cont'd)

AGE/LENGTH TABLE - COD - 2J - 1968 (4th QUARTER)

GEAR		Pair Trawl (Commercial)									
CATCHES OR LANDINGS		NK									
COUNTRY		Spain									
TONNAGE		NK									
STRUCTURES USED IN AGE DETERMINATION		Otoliths									
Length Group (3 cm)	Age						Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
		3	4	5	6	7		Months Within Quarter			
							Oct	Nov	Dec		
30	-	-	-	-	-	-	-	3	-	-	
33	-	-	-	-	-	-	-	22	-	-	
36	-	-	-	-	-	-	-	42	-	-	
39	2	-	-	-	-	-	2	80	-	-	
42	1	1	1	1	-	-	3	103	-	-	
45	-	1	1	2	-	-	3	131	-	-	
48	-	1	1	1	-	-	2	152	-	-	
51	-	2	1	1	-	-	3	125	-	-	
54	-	-	2	2	-	-	2	110	-	-	
57	-	-	-	2	-	-	2	85	-	-	
60	-	-	-	-	-	-	-	67	-	-	
63	-	-	-	-	-	-	-	48	-	-	
66	-	-	-	-	-	-	-	14	-	-	
69	-	-	-	-	-	1	1	4	-	-	
72	-	-	-	-	-	-	-	4	-	-	
75	-	-	-	-	-	-	-	1	-	-	
Total No. of Ages Read		3	5	9	-	1	18	991	-	-	
Serial Numbers	No. of Age Samples										
X	Number of fish measured each month						1452	-	-		
	Mean length of fish (cm) each month						50.80	-	-		
	Mean weight of fish (kg) each month						-	-	-		
	Total weight caught or landed (tons) each month						-	-	-		
	Estimated number caught or landed (whole numbers) each month						-	-	-		
	Range of depths (m) each month						300-350	-	-		
	Mesh size (mm)						-	-	-		

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	Total
Oct	141	294	533	-	17	985
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-

TABLE 34

AGE/LENGTH TABLE - COD - 3K - 1968 (2nd QUARTER)

GEAR		Otter Trawl (Research)																
CATCHES OR LANDINGS		Catches																
COUNTRY		USSR																
TONNAGE		3600																
STRUCTURES USED IN AGE DETERMINATION		Otoliths																
Length Group (3 cm)	Age	4	5	6	7	8	9	10	11	12	13	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE					
													Months Within Quarter	Apr	May	Jun		
21		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
24		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
27		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
30		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
33		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
36		3	2	-	-	-	-	-	-	-	-	-	-	-	-	5	-	53
39		1	17	4	-	-	-	-	-	-	-	-	-	-	-	22	-	128
42		2	26	17	-	-	-	-	-	-	-	-	-	-	-	45	-	149
45		-	24	22	11	3	-	-	-	-	-	-	-	-	-	60	-	169
48		-	11	21	15	1	-	-	-	-	-	-	-	-	-	48	-	109
51		-	2	17	22	-	3	-	-	-	-	-	-	-	-	44	-	100
54		-	-	6	13	3	1	-	-	-	-	-	-	-	-	23	-	63
57		-	-	3	9	3	3	-	-	-	-	-	-	1	-	19	-	50
60		-	-	-	7	2	7	1	-	-	-	-	-	-	-	17	-	42
63		-	-	-	1	2	2	3	-	1	-	-	-	-	-	9	-	30
66		-	-	-	1	2	1	1	-	-	-	-	-	-	-	5	-	20
69		-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	15
72		-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	6
75		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
78		-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	3
81		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
84		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
87		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
90		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
93		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
96		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
99		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
102		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
105		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
108		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
111		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
114		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Total No. of Ages Read		6	82	90	79	17	18	5	-	2	1	300	1000					
Serial Numbers		No. of Age Samples											1					
X		Number of fish measured each month											-	-	3684			
		Mean length of fish (cm) each month											-	-	48.46			
		Mean weight of fish (kg) each month											-	-	1.043			
		Total weight caught or landed (tons) each month											-	-	7514			
		Estimated number caught or landed (whole numbers) each month											-	-	7204219			
		Range of depths (m) each month											-	-	218-346			
Mesh size (mm)													-	-	110			

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	4	5	6	7	8	9	10	11	12	13	Total
Apr	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
Jun	47	323	269	212	56	68	18	-	6	3	1002

TABLE 34  
(Cont'd)

AGE/LENGTH TABLE - COD - 3K - 1968 (2nd QUARTER)

GEAR		Pair Trawl (Commercial)									
CATCHES OR LANDINGS		NK									
COUNTRY		Spain									
TONNAGE		NK									
STRUCTURES USED IN AGE DETERMINATION		Otoliths									
Length Group (3 cm)	Age	4	5	6	7	8	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
								Months Within Quarter			
								Apr	May	Jun	
30	-	-	-	-	-	-	-	1	-	-	
33	-	-	-	-	-	-	-	13	-	-	
36	-	-	-	-	-	-	-	29	-	-	
39	3	-	-	-	-	-	3	51	-	-	
42	1	2	-	-	-	-	3	81	-	-	
45	-	2	-	-	-	-	2	109	-	-	
48	1	2	1	-	-	-	4	111	-	-	
51	-	2	4	-	-	-	6	97	-	-	
54	-	2	1	-	-	-	3	131	-	-	
57	-	1	-	1	-	-	2	131	-	-	
60	-	-	4	-	-	-	4	108	-	-	
63	-	-	-	-	-	-	-	91	-	-	
66	-	-	1	-	-	1	2	34	-	-	
69	-	-	2	-	-	-	2	13	-	-	
72	-	-	-	-	-	-	-	4	-	-	
75	-	-	-	-	-	-	-	2	-	-	
78	-	-	-	-	-	-	-	1	-	-	
81	-	-	-	-	-	-	-	1	-	-	
84	-	-	-	-	-	-	-	1	-	-	
Total No. of Ages Read								31	1009	-	-
Serial Numbers		No. of Age Samples									
X		Number of fish measured each month						779	-	-	
		Mean length of fish (cm) each month						53.16	-	-	
		Mean weight of fish (kg) each month						-	-	-	
		Total weight caught or landed (tons) each month						-	-	-	
		Estimated number caught or landed (whole numbers) each month						-	-	-	
		Range of depths (m) each month						307	-	-	
		Mesh size (mm)						-	-	-	

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	4	5	6	7	8	Total
Apr	122	466	316	76	20	1000
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-



TABLE 35

AGE/LENGTH TABLE - COD - 3L - 1968 (1st QUARTER)

GEAR		Otter Trawl (Commercial)																				Total No. of Ages Read	LENGTH COMPOSITION PER MILE		
CATCHES OR LANDINGS		NK																					Months Within Quarter		
COUNTRY		Portugal																							
TONNAGE		1265																							
STRUCTURES USED IN AGE DETERMINATION		Otoliths																							
Length Group (3 cm)	Age	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	Jan	Feb	Mar		
		15	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
24	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2			
27	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2			
30	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5			
33	-	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	12			
36	-	19	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	74			
39	-	21	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	125			
42	-	16	46	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	110	132			
45	-	4	72	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	188	188			
48	-	2	42	25	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	133	140			
51	-	1	13	27	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	113	72			
54	-	-	6	21	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80	43			
57	-	-	1	18	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	28			
60	-	-	-	15	16	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	65	31			
63	-	-	-	14	13	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	45	31			
66	-	-	-	6	9	4	1	1	-	-	-	-	-	-	-	-	-	-	-	-	43	17			
69	-	-	-	3	7	3	1	2	-	-	1	-	-	-	-	-	-	-	-	-	25	23			
72	-	-	-	1	2	6	3	1	1	-	-	-	-	-	-	-	-	-	-	-	23	15			
75	-	-	-	-	2	1	5	-	2	-	-	-	-	-	-	-	-	-	-	-	13	12			
78	-	-	-	-	-	1	2	4	1	2	-	-	-	-	-	-	-	-	-	-	18	9			
81	-	-	-	-	-	1	1	4	1	-	-	-	1	-	-	-	-	-	-	-	13	8			
84	-	-	-	-	-	-	2	-	3	2	-	-	-	-	-	-	-	-	-	-	8	6			
87	-	-	-	-	-	-	1	1	1	3	-	-	-	-	-	-	-	-	-	-	3	8			
90	-	-	-	-	-	-	-	1	1	2	1	-	-	-	-	-	-	-	-	-	10	3			
93	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	5			
96	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	3			
99	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	5	2			
102	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	3	-			
105	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2			
108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2			
111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	3	-			
114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-			
117	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-			
Total No. of Ages Read		3	68	231	153	62	18	15	15	7	8	11	3	1	3	1	-	-	-	1	600				
Serial Numbers		No. of Age Samples																							
		Number of fish measured each month																				-	400	650	
		Mean length of fish (cm) each month																				-	54.7	50.1	
		Mean weight of fish (kg) each month																				-	-	-	
		Total weight caught or landed (tons) each month																				-	2450	6633	
		Estimated number caught or landed (whole numbers) each month																				-	-	-	
		Range of depths (m) each month																				-	180	175-260	
		Mesh size (mm)																				-	114	114	

## AGE COMPOSITIONS OF LANDINGS (PER MILE)

Month	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	Total
Jan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Feb	1	62	372	330	119	30	24	23	10	10	12	4	2	5	3	-	-	-	-	1007
Mar	8	146	464	229	68	19	16	15	7	9	12	3	1	3	-	-	-	-	2	1002

TABLE 35  
(Cont'd)

AGE/LENGTH TABLE - COD - 3L - 1968 (1st QUARTER)

GEAR		Pair Trawl (Commercial)													
CATCHES OR LANDINGS		NK													
COUNTRY		Spain													
TONNAGE		NK													
STRUCTURES USED IN AGE DETERMINATION		Otoliths													
Length Group (3 cm)	Age	3	4	5	6	7	8	9	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE					
										Months Within Quarter					
										Jan	Feb	Mar			
30	-	-	-	-	-	-	-	-	-	-	2	3			
33	-	-	-	-	-	-	-	-	-	-	4	16			
36	-	-	-	-	-	-	-	-	-	-	8	29			
39	-	2	-	-	-	-	-	-	2	-	17	40			
42	-	1	1	1	1	-	-	-	3	-	53	61			
45	-	2	1	-	-	-	-	-	3	-	67	88			
48	2	4	-	1	2	-	-	-	7	-	61	103			
51	-	-	5	2	-	-	-	-	7	-	92	106			
54	-	-	3	2	1	-	-	-	6	-	134	97			
57	-	-	3	3	-	-	-	-	6	-	114	98			
60	-	-	1	-	1	1	-	1	3	-	92	88			
63	-	-	1	1	3	1	-	-	6	-	69	79			
66	-	-	-	6	1	-	-	-	7	-	80	52			
69	-	-	1	2	1	2	-	-	6	-	65	39			
72	-	-	-	-	1	1	2	-	3	-	61	31			
75	-	-	-	1	1	-	-	1	3	-	34	12			
78	-	-	-	-	-	-	2	-	2	-	11	12			
81	-	-	-	-	-	-	-	1	1	-	2	5			
84	-	-	-	-	-	-	-	-	-	-	4	7			
87	-	-	-	-	-	-	-	-	-	-	11	2			
90	-	-	-	-	-	-	-	-	-	-	-	2			
93	-	-	-	-	-	-	-	-	-	-	2	2			
96	-	-	-	-	-	-	-	-	-	-	2	0			
99	-	-	-	-	-	-	-	-	-	-	2	-			
102	-	-	-	-	-	-	-	-	-	-	-	0			
105	-	-	-	-	-	-	-	-	-	-	-	-			
108	-	-	-	-	-	-	-	-	-	-	-	0			
111	-	-	-	-	-	-	-	-	-	-	-	0			
Total No. of Ages Read		2	9	16	19	9	7	3	65						
Serial Numbers		No. of Age Samples													
X		Number of fish measured each month											-	470	3041
		Mean length of fish (cm) each month											-	58.95	55.14
		Mean weight of fish (kg) each month											-	-	-
		Total weight caught or landed (tons) each month											-	-	-
		Estimated number caught or landed (whole numbers) each month											-	-	-
		Range of depths (m) each month											-	170	160-300
Mesh size (mm)													-	-	-

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	9	Total
Jan	-	-	-	-	-	-	-	-
Feb	18	120	297	282	148	89	46	1000
Mar	32	195	299	243	124	65	42	1000









TABLE 36

AGE/LENGTH TABLE - COD - 3M - 1968 (1st QUARTER)

GEAR		Otter Trawl (Commercial)														
CATCHES OR LANDINGS		NK														
COUNTRY		Portugal														
TONNAGE		1265														
STRUCTURES USED IN AGE DETERMINATION		Otoliths														
Length Group (3 cm)	Age	5	6	7	8	9	10	11	12	13	14	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
													Months Within Quarter			
											Jan	Feb	Mar			
45		1	-	-	-	-	-	-	-	-	1	-	-	1		
48		6	-	-	1	-	-	-	-	-	7	-	-	19		
51		8	6	-	-	-	-	-	-	-	14	-	-	40		
54		13	10	2	-	-	-	-	-	-	25	-	-	76		
57		11	15	5	1	1	-	-	-	-	33	-	-	131		
60		5	23	5	2	1	-	-	-	-	36	-	-	151		
63		4	23	8	5	3	-	-	-	-	43	-	-	153		
66		1	27	6	6	2	2	-	-	1	45	-	-	160		
69		1	20	6	3	2	1	-	-	-	33	-	-	95		
72		-	10	2	4	1	2	1	-	-	20	-	-	64		
75		-	3	3	2	1	7	1	-	-	17	-	-	47		
78		-	1	1	1	2	5	1	-	-	11	-	-	24		
81		-	-	-	1	1	3	-	-	-	5	-	-	16		
84		-	-	-	-	-	-	2	1	-	3	-	-	8		
87		-	-	-	-	1	-	-	-	-	2	-	-	7		
90		-	-	-	-	-	1	-	-	-	1	-	-	3		
93		-	-	-	-	-	-	-	-	1	1	-	-	3		
96		-	-	-	-	-	-	-	-	-	-	-	-	-		
99		-	-	-	-	-	-	-	-	1	1	-	-	1		
102		-	-	-	-	-	-	1	-	-	1	-	-	1		
105		-	-	-	-	-	-	-	-	-	-	-	-	-		
108		-	-	-	-	-	-	-	-	-	-	-	-	-		
111		-	-	-	-	-	-	-	1	-	1	-	-	1		
Total No. of Ages Read		50	138	38	26	15	22	6	2	2	1	300	1001			
Serial Numbers	5-7-8 with lengths											No. of Age Samples	6 Lengths only			750
X	Number of fish measured each month															
	Mean length of fish (cm) each month															64.8
	Mean weight of fish (kg) each month															
	Total weight caught or landed (tons) each month															3831
	Estimated number caught or landed (whole numbers) each month															
	Range of depths (m) each month															400-410
Mesh size (mm)															114	

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	5	6	7	8	9	10	11	12	13	14	Total
Jan	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	165	481	131	86	49	63	14	4	6	1	1000

TABLE 36  
(Cont'd)

AGE/LENGTH TABLE - COD - 3M - 1968 (1st QUARTER)

GEAR		Otter Trawl (Research)															
CATCHES OR LANDINGS													Catches				
COUNTRY													USSR				
TONNAGE													3600 and 2800				
STRUCTURES USED IN AGE DETERMINATION		Otoliths															
Length Group (3 cm)	Age	4	5	6	7	8	9	10	11	12	13	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE				
													Months Within Quarter				
												Jan	Feb	Mar			
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
48	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
51	-	16	3	1	-	-	-	-	-	-	-	4	-	-	-	-	17
54	1	9	12	-	-	-	-	-	-	-	-	20	-	-	-	-	49
57	-	16	16	3	-	-	-	-	-	-	-	22	-	-	-	-	95
60	-	7	37	6	1	-	-	-	-	-	-	35	-	-	-	-	132
63	-	1	32	7	-	-	-	-	-	-	-	51	-	-	-	-	157
66	-	1	34	8	4	2	-	-	-	-	-	40	-	-	-	-	148
69	-	1	17	13	5	-	-	-	-	-	-	49	-	-	-	-	126
72	-	-	4	6	2	2	1	-	-	-	-	36	-	-	-	-	96
75	-	-	1	3	3	-	-	-	-	-	-	15	-	-	-	-	67
78	-	-	1	2	3	2	-	-	-	-	-	7	-	-	-	-	39
81	-	-	-	-	2	1	1	-	-	-	-	8	-	-	-	-	28
84	-	-	-	-	-	3	1	-	-	-	1	5	-	-	-	-	12
87	-	-	-	-	1	-	-	-	-	-	-	3	-	-	-	-	9
90	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	7
93	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	3
96	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	3
99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Total No. of Ages Read	1	55	157	49	21	11	4	-	-	1	299	1000					
Serial Numbers	No. of Age Samples 1																
X	Number of fish measured each month											-	-	12119			
	Mean length of fish (cm) each month											-	-	64.12			
	Mean weight of fish (kg) each month											-	-	2,545			
	Total weight caught or landed (tons) each month											-	-	224			
	Estimated number caught or landed (whole numbers) each month											-	-	88016			
	Range of depths (m) each month											-	-	276-523			
Mesh size (mm)											-	-	110				

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	4	5	6	7	8	9	10	11	12	13	Total
Jan	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	4	188	518	166	76	34	11	-	-	2	999

TABLE 36  
(Cont'd)

## AGE/LENGTH TABLE - COD - 3M - 1968 (1st QUARTER)

GEAR		Pair Trawl (Commercial)									
CATCHES OR LANDINGS		NK									
COUNTRY		Spain									
TONNAGE		NK									
STRUCTURES USED IN AGE DETERMINATION		Otoliths									
Length Group (3 cm)	Age	4	5	6	7	8	9	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
									Months Within Quarter	Jan	Feb
39	-	-	-	-	-	-	-	-	-	-	3
42	-	-	-	-	-	-	-	-	-	-	17
45	-	-	-	-	-	-	-	-	-	-	21
48	-	-	-	-	-	-	-	-	-	-	38
51	-	-	-	-	-	-	-	-	-	-	81
54	3	2	1	-	-	-	-	6	-	-	123
57	1	3	1	-	-	-	-	5	-	-	150
60	1	5	-	-	-	-	-	6	-	-	145
63	1	5	-	-	-	-	-	6	-	-	142
66	-	2	1	1	1	-	-	5	-	-	114
69	-	1	2	-	3	-	-	6	-	-	72
72	-	1	-	-	3	-	-	4	-	-	34
75	-	1	-	-	1	-	-	2	-	-	37
78	-	-	-	-	1	-	-	1	-	-	28
81	-	-	-	-	-	-	-	-	-	-	5
84	-	-	-	-	-	-	1	1	-	-	6
87	-	-	-	-	-	-	-	-	-	-	1
90	-	-	-	-	-	-	-	-	-	-	1
93	-	-	-	-	-	-	-	-	-	-	-
96	-	-	-	-	-	-	-	-	-	-	1
Total No. of Ages Read		6	20	5	9	1	1	42			
Serial Numbers		No. of Age Samples									
		Number of fish measured each month						-	-	1254	
		Mean length of fish (cm) each month						-	-	61.57	
		Mean weight of fish (kg) each month						-	-	-	
		Total weight caught or landed (tons) each month						-	-	-	
		Estimated number caught or landed (whole numbers) each month						-	-	-	
		Range of depths (m) each month						-	-	370-380	
		Mesh size (mm)						-	-	-	

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	4	5	6	7	8	9	Total
Jan	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-
Mar	163	535	114	154	27	7	1000

TABLE 36  
(Cont'd)

## AGE/LENGTH TABLE - COD - 3M - 1968 (3rd QUARTER)

GEAR		Pair Trawl (Commercial)												
CATCHES OR LANDINGS		NK												
COUNTRY		Spain												
TONNAGE		NK												
STRUCTURES USED IN AGE DETERMINATION		Otoliths												
Length Group (3 cm)	Age	3	4	5	6	7	8	9	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE				
										Months Within Quarter	Jul	Aug	Sep	
30		-	-	-	-	-	-	-	-	-	-	-	-	1
33		-	-	-	-	-	-	-	-	-	-	-	-	3
36		-	-	-	-	-	-	-	-	-	-	-	-	1
39		-	-	-	-	-	-	-	-	-	-	-	-	30
42		-	-	-	-	-	-	-	-	-	-	-	-	34
45		-	-	-	-	-	-	-	-	-	-	-	-	47
48		-	-	-	-	-	-	-	-	-	-	-	-	48
51		-	1	1	-	-	-	-	-	-	-	-	-	56
54	1	-	2	-	-	-	-	-	2	-	-	-	-	109
57		-	3	2	-	-	-	-	3	-	-	-	-	117
60		-	2	2	-	-	-	-	5	-	-	-	-	136
63		-	2	1	1	-	-	-	4	-	-	-	-	113
66		-	1	2	-	-	-	-	4	-	-	-	-	104
69		-	1	1	1	-	-	-	3	-	-	-	-	86
72		-	-	-	-	-	-	-	4	-	-	-	-	78
75		-	-	-	2	-	-	-	-	-	-	-	-	41
78		-	-	2	-	-	-	-	2	-	-	-	-	11
81		-	-	-	-	-	-	-	2	-	-	-	-	6
84		-	-	-	-	-	-	-	-	-	-	-	-	3
87		-	-	-	-	-	-	-	-	-	-	-	-	1
Total No. of Ages Read		1	12	11	4	-	-	1	29	1025				
Serial Numbers	No. of Age Samples													
X	Number of fish measured each month										-	-	1661	
	Mean length of fish (cm) each month										-	-	60.14	
	Mean weight of fish (kg) each month										-	-	-	
	Total weight caught or landed (tons) each month										-	-	-	
	Estimated number caught or landed (whole numbers) each month										-	-	-	
	Range of depths (m) each month										-	-	310-320	
Mesh size (mm)										-	-	-		

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	9	Total
Jul	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-
Sep	47	455	354	118	-	-	27	1001

TABLE 37

AGE/LENGTH TABLE - COD - 4R - 1968 (1st QUARTER)

GEAR		Pair Trawl (Commercial)															
CATCHES OR LANDINGS		NK															
COUNTRY		Spain															
TONNAGE		NK															
STRUCTURES USED IN AGE DETERMINATION		Otoliths															
Length Group (3 cm)	Age										Total No. of Ages Read	LENGTH COMPOSITION PER MILLE					
		3	4	5	6	7	8	9	10	11		Months Within Quarter					
		Jan	Feb	Mar													
30		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
33		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11
36		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
39		2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	29
42		-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	42
45		-	1	5	-	-	-	-	-	-	-	-	-	-	-	-	51
48		-	-	3	2	-	-	-	-	-	-	-	-	-	-	-	93
51		-	2	3	-	-	-	-	-	-	-	-	-	-	-	-	93
54		-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	114
57		-	2	-	1	1	1	1	-	-	-	-	-	-	-	-	133
60		-	-	-	1	-	4	-	-	-	-	-	-	-	-	-	119
63		-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	111
66		-	-	-	-	1	1	-	2	1	-	-	-	-	-	-	65
69		-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	39
72		-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	28
75		-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	20
78		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
81		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
84		-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	2
87		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
90		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
93		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Total No. of Ages Read		2	6	18	4	3	9	5	3	1	51	982					
Serial Numbers		No. of Age Samples															
X		Number of fish measured each month												-	-	2585	
		Mean length of fish (cm) each month												-	-	55.65	
		Mean weight of fish (kg) each month												-	-	-	
		Total weight caught or landed (tons) each month												-	-	-	
		Estimated number caught or landed (whole numbers) each month												-	-	-	
		Range of depths (m) each month												-	-	120-230	
		Mesh size (mm)												-	-	-	

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	9	10	11	Total
Jan	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-
Mar	20	106	330	88	77	239	97	29	14	1000

TABLE 38

LENGTH FREQUENCIES - HADDOCK - 30 - 1968

(FREQUENCIES IN  $\text{‰}$  - 2 CM GROUPS)

GEAR	Otter Trawl (Commercial)
CATCHES/LANDINGS	Landings After Discards
MONTH	February
COUNTRY	Canada (Newfoundland)
TONNAGE	151-500
34	2
36	14
38	20
40	55
42	71
44	127
46	210
48	180
50	124
52	57
54	16
56	27
58	39
60	18
62	4
64	10
66	16
68	6
70	-
72	2
Total $\text{‰}$	998
Serial Numbers	-
Number of Samples	1
Number of Fish Measured	490
Mean Length (cm)	48.382
Mean Weight (kg)	1.253
Total Weight Landed (tons)	12.8
Estimated Number Landed	10215
Mesh(mm) or Hook(no.) Size	Large
Range of Depths (fm)	70-120

TABLE 39 LENGTH FREQUENCIES - HADDOCK - 3Ps - 1968

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	Otter Trawl (Commercial)		
	Landings After Discards		
CATCHES/LANDINGS	January	November	December
MONTH	Canada (Newfoundland)	France (St. Pierre et Miquelon)	
COUNTRY	501-900	151-500	
TONNAGE			
26	-	1	-
28	-	7	2
30	-	10	2
32	-	12	21
34	-	48	66
36	11	146	115
38	16	245	210
40	56	215	282
42	75	111	204
44	122	59	70
46	218	31	9
48	175	28	9
50	131	19	6
52	49	16	2
54	49	13	2
56	22	13	-
58	20	11	-
60	16	8	-
62	22	3	-
64	9	1	-
66	-	-	-
68	2	-	-
70	5	1	-
72	2	-	-
Total ‰	1000	998	1000
Serial Numbers	-	-	-
Number of Samples	1	3	1
Number of Fish Measured	550	2371	641
Mean Length (cm)	48.358	-	-
Mean Weight (kg)	1.026	0.50	0.62
Total Weight Landed (tons)	119.4	-	-
Estimated Number Landed	116374	-	-
Mesh(mm) or Hook(no.) Size	Large	4 1/2 <sup>1</sup>	4 1/2 <sup>1</sup>
Range of Depths (fm)	90-100	80-110	50

<sup>1</sup> inches



TABLE 40

LENGTH FREQUENCIES - HADDOCK - 4Vs - 1968

(FREQUENCIES IN  $\circ/\circ\circ$  - 2 CM GROUPS)

GEAR	Otter Trawl	
	(Commercial)	
CATCHES/LANDINGS	Landings	
MONTH	March	April
COUNTRY	Canada (Maritimes)	
TONNAGE	501-900	151-500
28	-	53
30	-	188
32	-	195
34	-	38
36	4	53
38	67	113
40	71	31
42	105	42
44	115	20
46	116	67
48	129	56
50	93	34
52	80	24
54	55	37
56	48	14
58	58	13
60	28	6
62	10	3
64	3	2
66	7	3
68	3	1
70	-	1
72	-	1
74	7	4
76	-	-
78	-	1
Total $\circ/\circ\circ$	999	1000
Serial Numbers	64	65
Number of Samples	1	1
Number of Fish Measured	268	308
Mean Length (cm)	48.6	39.0
Mean Weight (kg)	1.27	0.60
Total Weight Landed (tons)	49	227
Estimated Number Landed	386 <sup>1</sup>	3783 <sup>1</sup>
Mesh(mm) or Hook(no.) Size	4 1/2 <sup>2</sup>	3 1/2 <sup>2</sup>
Range of Depths (fm)	50-110	70-110

<sup>1</sup> Numbers in 100's<sup>2</sup> inches

TABLE 41

LENGTH FREQUENCIES - HADDOCK - 4V AND 4W - 1968

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	Otter Trawl (Commercial)	
	Landings	
CATCHES/LANDINGS	March	May
MONTH	Canada (Maritimes)	
COUNTRY	151-500	501-900
TONNAGE		
36	7	-
38	37	6
40	57	7
42	94	78
44	50	72
46	110	78
48	109	93
50	112	102
52	96	112
54	73	126
56	82	104
58	49	41
60	36	58
62	27	50
64	19	31
66	19	15
68	3	8
70	3	15
72	8	4
74	5	-
76	2	-
78	-	-
80	-	-
82	2	-
Total ‰	1000	1000
Serial Numbers	66-67	68
Number of Samples	2	1
Number of Fish Measured	485	201
Mean Length (cm)	50.8	52.9
Mean Weight (kg)	1.33	1.46
Total Weight Landed (tons)	-	-
Estimated Number Landed	-	-
Mesh(mm) or Hook(no.) Size	4 5/8 <sup>1</sup>	4 1/2 <sup>1</sup>
Range of Depths (fm)	42-110	40-92

<sup>1</sup> inches

TABLE 42

LENGTH FREQUENCIES - HADDOCK - 4W - 1968

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	Otter Trawl (Commercial)						
	Landings						
CATCHES/LANDINGS	February	February	March	April	May	June	June
MONTH	Canada (Maritimes)						
COUNTRY	501-900						
TONNAGE	501-900	151-500					501-900
34	-	-	2	16	-	2	14
36	7	17	21	16	-	17	14
38	33	22	46	16	6	29	65
40	84	82	75	73	25	33	80
42	146	56	83	57	37	45	122
44	102	69	92	187	93	79	80
46	111	86	102	130	224	109	99
48	114	100	100	84	143	108	116
50	54	78	104	68	128	113	100
52	73	82	86	100	106	91	61
54	85	104	69	64	62	86	66
56	38	95	59	58	58	68	67
58	61	82	48	43	29	58	34
60	38	48	29	39	25	37	22
62	23	35	23	24	31	39	19
64	12	22	15	21	12	31	19
66	14	4	14	3	6	19	11
68	3	13	17	-	8	15	4
70	3	-	6	-	2	8	4
72	-	-	4	-	2	3	4
74	-	4	1	-	-	2	-
76	-	-	4	-	-	3	-
78	-	-	-	-	-	3	-
80	-	-	-	-	2	2	-
82	-	-	1	-	-	-	-
Total ‰	1001	999	1001	999	999	1000	1001
Serial Numbers	69	70	71-73	74	75	77-78	76
Number of Samples	1	1	3	1	1	2	1
Number of Fish Measured	305	231	754	202	281	514	229
Mean Length (cm)	49.1	51.2	49.9	49.0	50.4	51.8	48.6
Mean Weight (kg)	1.28	1.41	1.46	1.14	1.35	1.46	1.20
Total Weight Landed (tons)	154	193	2005	130	233	501	151
Estimated Number Landed	1203 <sup>1</sup>	1369 <sup>1</sup>	13733 <sup>1</sup>	1140 <sup>1</sup>	1726 <sup>1</sup>	3432 <sup>1</sup>	1258 <sup>1</sup>
Mesh(mm) or Hook(no.) Size	4 1/2 <sup>2</sup>	4 1/2 <sup>2</sup> 4	1/2-4 5/8 <sup>2</sup>	4 5/8 <sup>2</sup>	4 1/2 <sup>2</sup>	4 1/2 <sup>2</sup>	4 3/8 <sup>2</sup>
Range of Depths (fm)	35-90	45-56	40-75	40-95	45-60	-	-

<sup>1</sup> Numbers in 100's<sup>2</sup> inches

TABLE 42  
(Cont'd)

## LENGTH FREQUENCIES - HADDOCK - 4W - 1968

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	Otter Trawl			Long Line
	(Commercial)			
CATCHES/LANDINGS	Landings			
MONTH	July	October	November	October
COUNTRY	Canada (Maritimes)			
TONNAGE	151-500			26-50
32	2	-	-	-
34	2	-	-	-
36	8	17	5	-
38	24	36	37	-
40	56	69	37	-
42	95	82	37	15
44	86	62	68	15
46	106	101	63	45
48	115	103	157	85
50	114	94	179	65
52	91	74	120	136
54	79	83	70	136
56	61	72	64	126
58	25	51	43	121
60	29	62	43	70
62	27	36	28	65
64	17	28	14	35
66	8	17	11	35
68	11	11	11	15
70	21	2	-	20
72	13	-	7	10
74	6	-	7	-
76	2	-	-	5
78	-	-	-	-
80	2	-	-	-
Total ‰	1000	1000	1001	999
Serial Numbers	79-80	81-82	83	85
Number of Samples	2	2	1	1
Number of Fish Measured	506	468	229	199
Mean Length (cm)	50.8	50.8	51.2	56.0
Mean Weight (kg)	1.28	1.40	1.34	1.96
Total Weight Landed (tons)	275	291	293	18
Estimated Number Landed	2148 <sup>1</sup>	2079 <sup>1</sup>	2187 <sup>1</sup>	92 <sup>1</sup>
Mesh(mm) or Hook(no.) Size	4 1/2 <sup>2</sup>	4 1/2 <sup>2</sup>	4 1/2 <sup>2</sup>	6/0 <sup>2</sup>
Range of Depths (fm)	35-80	45-80	26-60	45-50

<sup>1</sup> Numbers in 100's<sup>2</sup> inches

TABLE 43

LENGTH FREQUENCIES - HADDOCK - 4X (NORTH)<sup>1</sup> - 1968

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	Otter Trawl (Commercial)						
	Landings						
CATCHES/LANDINGS	March	May	June	August	September	October	November
MONTH	Canada (Maritimes)						
COUNTRY							
TONNAGE	26-50			51-150			
28	-	-	-	2	-	-	-
30	-	-	-	1	-	-	4
32	4	4	-	1	-	-	4
34	-	8	-	5	-	-	18
36	12	41	-	18	-	-	11
38	77	98	54	37	-	-	37
40	153	172	80	87	-	-	55
42	222	176	78	146	13	15	117
44	214	156	116	143	71	23	161
46	157	98	95	144	84	103	139
48	97	98	114	149	110	137	158
50	16	62	136	99	175	114	121
52	20	33	132	58	149	236	84
54	12	4	75	47	117	91	37
56	4	25	54	33	195	148	22
58	8	8	37	15	46	49	11
60	-	8	4	9	33	30	7
62	-	-	13	3	7	23	4
64	4	-	6	3	-	4	-
66	-	4	-	-	-	11	4
68	-	4	2	-	-	-	7
70	-	-	-	-	-	4	-
72	-	-	2	-	-	4	-
74	-	-	2	-	-	4	-
76	-	-	-	-	-	4	-
Total ‰	1000	999	1000	1000	1000	1000	1001
Serial Numbers	126	111	1146119	121-123	125	127	131
Number of Samples	1	1	2	3	1	1	1
Number of Fish Measured	248	244	464	790	154	263	273
Mean Length (cm)	44.2	44.4	48.7	46.6	52.1	52.8	47.0
Mean Weight (kg)	1.09	1.11	1.36	0.95	1.47	1.72	1.07
Total Weight Landed (tons)	1	571	685	737	731	315	226
Estimated Number Landed	9 <sup>2</sup>	5144 <sup>2</sup>	5037 <sup>2</sup>	7758 <sup>2</sup>	4973 <sup>2</sup>	1831 <sup>2</sup>	2112 <sup>2</sup>
Mesh(mm) or Hook(no.) Size	4 1/2 <sup>3</sup>	4 1/2 <sup>3</sup>	4 1/2 <sup>3</sup>	4 1/2 <sup>3</sup>	4 1/2 <sup>3</sup>	4 1/2 <sup>3</sup>	4 1/2 <sup>3</sup>
Range of Depths (fm)	25	70	20-40	20-50	50-60	50-55	40

<sup>1</sup> North of latitude 44° 00'<sup>2</sup> Numbers in 100's<sup>3</sup> inches

TABLE 44

LENGTH FREQUENCIES - HADDOCK - 4X (SOUTH)<sup>1</sup>

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	Otter Trawl				
	(Commercial)				
CATCHES/LANDINGS	Landings				
MONTH	January	January	February	March	March
COUNTRY	Canada (Maritimes)				
TONNAGE	151-500	51-150	151-500	51-150	51-150
26	-	-	-	-	3
28	-	-	-	-	-
30	-	-	1	-	-
32	3	-	1	4	22
34	3	8	23	-	69
36	26	12	97	29	186
38	65	29	94	29	196
40	107	74	111	41	177
42	144	114	127	124	95
44	150	208	128	128	95
46	140	224	124	199	66
48	112	147	109	89	25
50	94	74	65	121	28
52	54	57	47	83	16
54	38	29	23	62	10
56	26	16	19	43	3
58	19	8	14	22	3
60	9	-	8	8	3
62	5	-	5	10	3
64	3	-	2	8	-
66	1	-	2	-	-
68	1	-	-	-	-
Total ‰	1000	1000	1000	1000	1000
Serial Numbers	86-93 <sup>2</sup>	90	94-97	98	99
Number of Samples	7	1	4	1	1
Number of Fish Measured	1836	245	1285	284	317
Mean Length (cm)	46.2	46.2	44.6	47.7	40.7
Mean Weight (kg)	1.13	1.11	0.99	1.25	0.71
Total Weight Landed (tons)	1145	99	1735	1834	429
Estimated Number Landed	10133 <sup>3</sup>	892 <sup>3</sup>	17525 <sup>3</sup>	14672 <sup>3</sup>	6042 <sup>3</sup>
Mesh(mm) or Hook(no.) Size	4 3/8-4 1/2 <sup>4</sup>	4 1/2 <sup>4</sup>	4 3/8-4 1/2 <sup>4</sup>	4 1/2 <sup>4</sup>	4 1/2 <sup>4</sup>
Range of Depths (fm)	70-92	65	54-90	90-95	75-90

<sup>1</sup> 1 South of latitude 44° 00'  
<sup>2</sup> 2 excluding No. 90

<sup>3</sup> 3 Numbers in 100's  
<sup>4</sup> 4 inches



TABLE 44 LENGTH FREQUENCIES - HADDOCK - 4X (SOUTH)<sup>1</sup>  
(Cont'd)

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	Otter Trawl (Commercial)					
	Landings					
CATCHES/LANDINGS						
MONTH	August	August	October	November	December	December
COUNTRY	Canada (Maritimes)					
TONNAGE	151-500	26-50	151-500		51-150	
26	-	7	-	-	-	-
28	-	33	-	-	-	-
30	-	130	-	-	-	3
32	7	101	-	-	1	3
34	21	40	7	16	7	13
36	41	40	27	16	21	18
38	34	65	61	40	28	26
40	109	145	88	51	50	61
42	205	181	123	105	80	82
44	191	116	164	90	107	164
46	161	58	122	111	160	185
48	88	40	122	123	162	133
50	57	25	88	111	130	131
52	32	4	73	107	77	80
54	17	-	48	71	56	38
56	14	7	29	50	50	33
58	9	-	15	31	33	10
60	6	-	8	29	16	8
62	7	4	5	19	14	8
64	-	-	8	15	3	5
66	-	4	5	12	2	-
68	1	-	-	2	1	-
70	-	-	2	-	-	-
72	-	-	2	-	-	-
74	-	-	-	-	1	-
76	-	-	2	-	-	-
Total ‰	1000	1000	999	999	999	1001
Serial Numbers	120	124	128	129-130	132,135,136	133-134
Number of Samples	1	1	1	2	3	2
Number of Fish Measured	260	276	269	532	814	390
Mean Length (cm)	44.8	39.4	46.8	48.9	48.4	47.2
Mean Weight (kg)	0.96	0.82	1.18	1.37	1.38	1.28
Total Weight Landed (tons)	436	93	270	390	241	5
Estimated Number Landed	4542 <sup>2</sup>	1134 <sup>2</sup>	2288 <sup>2</sup>	2847 <sup>2</sup>	1746 <sup>2</sup>	39 <sup>2</sup>
Mesh(mm) or Hook(no.) Size	4 1/2 <sup>3</sup>	4 1/2 <sup>3</sup>	4 1/2 <sup>3</sup>	4 1/2 <sup>3</sup>	4 1/2 <sup>3</sup>	4 1/2 <sup>3</sup>
Range of Depths (fm)	50-70	40-50	37-55	45-95	44-90	65

<sup>1</sup> South of latitude 44° 00'<sup>2</sup> Numbers in 100's<sup>3</sup> inches



TABLE 45

LENGTH FREQUENCIES - HADDOCK - 5Y - 1968

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	Otter Trawl
CATCHES/LANDINGS	(Commercial)
MONTH	Landings
COUNTRY	May
TONNAGE	Canada (Maritimes)
	51-150
38	22
40	32
42	75
44	97
46	156
48	226
50	172
52	91
54	65
56	48
58	5
60	5
62	-
64	5
Total ‰	999
Serial Numbers	137
Number of Samples	1
Number of Fish Measured	186
Mean Length (cm)	48.6
Mean Weight (kg)	1.22
Total Weight Landed (tons)	34
Estimated Number Landed	279 <sup>1</sup>
Mesh(mm) or Hook(no.) Size	4 1/2 <sup>2</sup>
Range of Depths (fm)	40

<sup>1</sup> Numbers in 100's

<sup>2</sup> inches

GEAR	Otter Trawl (Commercial)			
	Landings			
CATCHES/LANDINGS	June	September	October	October
MONTH	Canada (Maritimes)			
COUNTRY	151-500		501-900	
TONNAGE	151-500		151-500	
36	4	-	-	-
38	11	3	5	-
40	11	33	18	25
42	47	61	47	43
44	75	90	105	142
46	86	105	118	182
48	140	152	143	193
50	86	135	179	120
52	126	168	72	54
54	119	89	56	58
56	104	58	65	55
58	68	43	60	51
60	40	22	45	34
62	32	17	37	22
64	16	13	19	11
66	16	9	13	11
68	8	2	2	-
70	4	-	6	-
72	4	-	4	-
74	-	-	2	-
76	4	-	-	-
78	-	-	2	-
80	-	-	2	-
Total ‰	1001	1000	1000	1001
Serial Numbers	138	139-140	142&144	142-143
Number of Samples	1	2	2	2
Number of Fish Measured	263	543	639	888
Mean Length (cm)	52.3	50.6	51.6	50.0
Mean Weight (kg)	1.57	1.60	1.59	1.52
Total Weight Landed (tons)	249	659	616	269
Estimated Number Landed	1586 <sup>1</sup>	4119 <sup>1</sup>	3874 <sup>1</sup>	1770 <sup>1</sup>
Mesh(mm) or Hook(no.) Size	4 1/2 <sup>2</sup>	4 3/8 <sup>2</sup>	4 1/2 <sup>2</sup>	4 3/8 <sup>2</sup>
Range of Depths (fm)	-	-	-	-

<sup>1</sup> Numbers in 100's<sup>2</sup> inches

TABLE 47

## AGE/LENGTH TABLE - HADDOCK - 5Y - 1968 (1st QUARTER)

GEAR		Otter Trawl (Commercial)									
CATCHES OR LANDINGS		Landings									
COUNTRY		United States									
TONNAGE		0-310									
STRUCTURES USED IN AGE DETERMINATION		Scales									
Length Group (2 cm)	Age	5	6	7	8	9	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
								Months Within Quarter			
								Jan	Feb	Mar	
36	-	-	-	-	-	-	-	14	-	-	
38	4	-	-	-	-	-	4	60	-	-	
40	2	-	-	-	-	-	2	95	-	-	
42	5	-	-	-	-	-	5	178	-	-	
44	7	-	-	-	-	-	8	249	-	-	
46	4	1	-	-	-	-	4	190	-	-	
48	6	-	-	-	-	-	6	147	-	-	
50	1	-	-	-	-	-	1	54	-	-	
52	1	-	-	-	-	-	1	14	-	-	
54	-	-	-	-	-	-	-	-	-	-	
56	2	1	-	-	-	-	3	-	-	-	
58	2	-	-	-	-	-	2	-	-	-	
60	3	2	-	-	-	-	5	-	-	-	
62	1	2	-	-	-	-	3	-	-	-	
64	-	-	1	-	1	-	2	-	-	-	
66	-	1	-	-	-	-	1	-	-	-	
68	-	-	-	-	-	1	1	-	-	-	
70	-	-	-	-	-	-	-	-	-	-	
72	-	-	-	-	-	1	1	-	-	-	
74	-	-	-	-	-	-	-	-	-	-	
76	-	-	-	-	-	-	-	-	-	-	
78	-	-	-	-	-	-	-	-	-	-	
80	-	-	-	-	-	1	1	-	-	-	
Total No. of Ages Read								50	1000	-	-
Serial Numbers		No. of Age Samples 3									
X		Number of fish measured each month						152	-	-	
		Mean length of fish (cm) each month						44.70	-	-	
		Mean weight of fish (kg) each month						0.95	-	-	
		Total weight caught or landed (tons) each month						182	-	-	
		Estimated number caught or landed (whole numbers) each month						193000	-	-	
		Range of depths (m) each month						128-183	-	-	
		Mesh size (mm)						114	-	-	

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	5	6	7	8	9	Total
Jan	968	32	-	-	-	1000
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-

TABLE 47  
(Cont'd)

## AGE/LENGTH TABLE - HADDOCK - 5Y - 1968 (2nd QUARTER)

GEAR		Otter Trawl (Commercial)											
CATCHES OR LANDINGS		Landings											
COUNTRY		United States											
TONNAGE		0-310											
STRUCTURES USED IN AGE DETERMINATION		Scales											
Length Group (2 cm)	Age	4	5	6	7	8	9	Total No. of Ages Read	LENGTH COMPOSITION PER MILE				
									Months Within Quarter				
									Apr	May	Jun		
40		-	-	-	-	-	-	-	33	-	-		
42		-	-	-	-	-	-	-	90	-	-		
44		-	-	-	-	-	-	-	56	-	-		
46		-	-	-	-	-	-	-	122	-	-		
48		-	1	-	-	-	-	1	216	19	-		
50		-	3	2	-	-	-	5	144	84	-		
52		-	6	2	-	-	-	8	82	290	-		
54		1	7	5	1	-	-	14	56	206	-		
56		-	6	3	-	-	-	9	66	150	-		
58		-	4	3	-	-	2	9	53	75	-		
60		-	3	-	3	-	-	6	41	84	-		
62		-	-	2	-	1	2	5	23	56	-		
64		-	1	-	1	-	-	2	8	19	-		
66		-	-	-	-	-	-	-	7	9	-		
68		-	-	-	-	-	-	-	-	-	-		
70		-	-	-	-	-	-	-	-	-	-		
72		-	-	-	-	-	-	-	-	9	-		
74		-	-	-	-	-	-	-	-	-	-		
76		-	-	-	-	-	-	-	2	-	-		
Total No. of Ages Read		1	31	17	5	1	4	59	1000	1000	-		
Serial Numbers		No. of Age Samples 3											
X	Number of fish measured each month										267	107	-
	Mean length of fish (cm) each month										50.36	55.49	-
	Mean weight of fish (kg) each month										1.26	1.59	-
	Total weight caught or landed (tons) each month										525	845	-
	Estimated number caught or landed (whole numbers) each month										416300	533700	-
	Range of depths (m) each month										48-201	37-165	-
Mesh size (mm)										114	114	-	

## AGE COMPOSITIONS OR LANDINGS (PER MILE)

Month	4	5	6	7	8	9	Total
Apr	6	702	213	41	7	31	1000
May	15	601	260	67	13	44	1000
Jun	-	-	-	-	-	-	-

TABLE 47  
(Cont'd)

## AGE/LENGTH TABLE - HADDOCK - 5Y - 1968 (4th QUARTER)

GEAR		Otter Trawl (Commercial)							
CATCHES OR LANDINGS		Landings							
COUNTRY		United States							
TONNAGE		0-310							
STRUCTURES USED IN AGE DETERMINATION		Scales							
Length Group (2 cm)	Age	4	5	6	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
						Months Within Quarter			
						Oct	Nov	Dec	
40		-	-	-	-	17	-	-	
42		-	-	-	-	35	-	-	
44		-	1	-	1	41	-	-	
46		-	3	2	5	122	-	-	
48		-	2	-	2	108	-	-	
50		1	1	1	3	117	-	-	
52		-	6	-	6	132	-	-	
54		-	3	-	3	113	-	-	
56		-	9	-	9	129	-	-	
58		-	2	-	2	56	-	-	
60		-	1	1	2	59	-	-	
62		-	-	-	-	29	-	-	
64		-	-	-	-	-	-	-	
66		-	-	1	1	13	-	-	
68		-	-	1	1	17	-	-	
70		-	-	-	-	8	-	-	
72		-	-	-	-	-	-	-	
74		-	-	-	-	-	-	-	
76		-	-	-	-	4	-	-	
Total No. of Ages Read		1	28	6	35	1000	-	-	
Serial Numbers		No. of Age Samples				2			
Number of fish measured each month						199	-	-	
Mean length of fish (cm) each month						52.77	-	-	
Mean weight of fish (kg) each month						1.61	-	-	
Total weight caught or landed (tons) each month						2424	-	-	
Estimated number caught or landed (whole numbers) each month						150500	-	-	
Range of depths (m) each month						91-219	-	-	
Mesh size (mm)						114	-	-	

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	4	5	6	Total
Oct	43	796	161	1000
Nov	-	-	-	-
Dec	-	-	-	-

TABLE 48

## AGE/LENGTH TABLE - HADDOCK - 5Z - 1968 (1st QUARTER)

GEAR		Otter Trawl (Commercial)												
CATCHES OR LANDINGS		Landings												
COUNTRY		United States												
TONNAGE		0-458												
STRUCTURES USED IN AGE DETERMINATION		Scales												
Length Group (2 cm)	Age	2	3	4	5	6	7	8	9	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
											Months	Within	Quarter	
											Jan	Feb	Mar	
34	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	3	-	-	-	-	-	-	-	-	3	3	1	2	-
38	8	1	3	3	3	-	-	-	-	15	15	12	8	-
40	7	1	4	4	15	2	-	-	-	29	40	17	20	-
42	6	1	1	1	27	2	-	-	-	37	53	32	40	-
44	5	5	9	46	3	-	-	-	-	68	78	69	66	-
46	1	4	7	45	5	-	-	-	-	62	97	79	84	-
48	-	5	4	57	7	-	-	-	-	73	105	110	108	-
50	-	4	12	84	13	2	-	-	-	115	125	129	142	-
52	-	-	11	87	13	2	1	-	-	114	118	134	134	-
54	-	-	15	83	17	1	2	1	-	119	81	116	113	-
56	-	-	8	92	22	4	2	1	-	129	79	84	86	-
58	-	-	2	56	28	5	2	5	-	98	69	54	66	-
60	-	-	1	27	28	4	4	2	-	66	54	45	46	-
62	-	-	-	19	11	4	1	3	-	38	30	27	30	-
64	-	-	-	7	15	5	4	6	-	37	23	30	20	-
66	-	-	-	-	4	4	10	5	-	23	9	20	9	-
68	-	-	-	2	-	5	4	6	-	17	7	15	11	-
70	-	-	-	-	1	-	4	7	-	12	2	9	5	-
72	-	-	-	-	1	4	-	7	-	12	5	7	5	-
74	-	-	-	-	-	1	1	4	-	6	3	4	4	-
76	-	-	-	-	-	-	-	4	-	4	2	2	2	-
78	-	-	-	-	-	-	-	-	-	-	1	2	-	-
80	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Total No. of Ages Read		30	21	77	650	172	41	35	51	1077				
Serial Numbers		No. of Age Samples									62			
	Number of fish measured each month										1669	1803	1984	
	Mean length of fish (cm) each month										51.81	52.99	52.47	
	Mean weight of fish (kg) each month										1.55	1.61	1.45	
	Total weight caught or landed (tons) each month										1680	1756	3026	
	Estimated number caught or landed (whole numbers) each month										1086600	1088300	2083200	
	Range of depths (m) each month										55-274	46-293	55-219	
	Mesh size (mm)										114	114	114	

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	2	3	4	5	6	7	8	9	Total
Jan	36	28	79	644	143	26	19	25	1000
Feb	23	25	78	633	144	32	28	37	1000
Mar	24	25	79	653	143	27	21	28	1000

TABLE 48  
(Cont'd)

AGE/LENGTH TABLE - HADDOCK - 5% - 1968 (2nd QUARTER)

GEAR		Otter Trawl (Commercial)												
CATCHES OR LANDINGS		Landings												
COUNTRY		United States												
TONNAGE		0-458												
STRUCTURES USED IN AGE DETERMINATION		Scales												
Length Group (2 cm)	Age	2	3	4	5	6	7	8	9	Total No. of Ages Read	LENGTH COMPOSITION PER MILE			
											Months Within Quarter			
											Apr	May	Jun	
32	-	-	-	-	-	-	-	-	-	-	-	-	-	1
34	1	-	-	-	-	-	-	-	-	1	-	-	-	-
36	5	-	-	-	-	-	-	-	-	5	-	14	-	4
38	18	1	1	1	1	-	-	-	-	21	6	57	-	23
40	16	1	2	2	1	-	-	-	-	20	9	66	-	46
42	9	-	-	-	4	-	-	-	-	13	23	62	-	88
44	13	8	2	2	22	-	-	-	-	45	38	45	-	88
46	5	3	4	4	24	1	-	-	-	37	86	34	-	85
48	2	1	15	24	6	-	-	-	-	48	100	59	-	72
50	1	2	14	42	2	-	-	-	-	61	142	93	-	71
52	-	2	10	37	6	-	-	-	-	55	122	103	-	81
54	-	2	8	63	11	4	-	-	-	88	122	108	107	-
56	-	-	3	55	16	5	-	-	1	80	82	103	91	-
58	-	-	4	45	12	1	1	1	1	64	80	68	77	-
60	-	-	1	35	13	2	1	2	1	54	74	52	52	-
62	-	-	-	22	10	2	2	6	6	42	44	37	36	-
64	-	-	1	9	10	2	-	2	2	24	21	22	24	-
66	-	-	-	2	8	4	2	7	7	23	11	20	15	-
68	-	-	-	-	1	1	1	8	8	11	8	9	13	-
70	-	-	-	-	2	1	3	6	6	12	7	17	8	-
72	-	-	-	-	-	3	-	6	6	9	7	12	7	-
74	-	-	-	-	-	-	-	2	10	12	7	6	6	-
76	-	-	-	-	-	-	-	1	5	6	4	6	2	-
78	-	-	-	-	-	-	-	-	5	5	3	5	1	-
80	-	-	-	-	-	-	-	-	1	1	2	2	-	-
82	-	-	-	-	-	-	-	-	1	1	2	1	-	-
84	-	-	-	-	-	-	-	-	-	-	1	-	1	-
											1000	1000	1000	
Total No. of Ages Read	70	20	65	386	98	25	13	61	738	X				
Serial Numbers	No. of Age Samples 43											X		
X	Number of fish measured each month											1469	1399	1500
	Mean length of fish (cm) each month											53.91	52.59	52.06
	Mean weight of fish (kg) each month											1.59	1.46	1.49
	Total weight caught or landed (tons) each month											2384	2470	2748
	Estimated number caught or landed (whole numbers) each month											1495100	1688500	1844800
	Range of depths (m) each month											51-201	33-110	33-146
Mesh size (mm)											114	114	114	

AGE COMPOSITIONS OF LANDINGS (PER MILE)

Month	2	3	4	5	6	7	8	9	Total
Apr	58	28	120	592	122	24	10	46	1000
May	182	27	93	492	110	27	12	57	1000
Jun	163	35	92	526	108	24	10	42	1000

TABLE 48  
(Cont'd)

## AGE/LENGTH TABLE - HADDOCK - 5Z - 1968 (3rd QUARTER)

GEAR		Otter Trawl (Commercial)											
CATCHES OR LANDINGS		Landings											
COUNTRY		United States											
TONNAGE		0-458											
STRUCTURES USED IN AGE DETERMINATION		Scales											
Length Group (2 cm)	Age	2	3	4	5	6	7	8	9	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
											Months Within Quarter		
											Jul	Aug	Sep
32		1	1	-	-	-	-	-	-	2	1	-	-
34		2	-	-	-	-	-	-	-	2	5	1	-
36		5	-	-	-	-	-	-	-	7	10	1	2
38		18	-	-	2	-	-	-	-	23	18	15	7
40		40	2	1	6	-	-	-	-	49	37	35	24
42		44	7	2	13	-	-	-	-	66	64	68	40
44		22	6	9	29	-	-	-	-	66	82	76	61
46		15	4	9	36	1	-	-	-	65	79	88	44
48		8	3	7	46	6	-	-	-	70	84	99	60
50		4	5	14	76	7	-	-	-	106	86	87	80
52		1	-	6	73	12	-	-	-	92	103	100	128
54		-	-	11	92	8	-	-	-	111	68	95	127
56		-	-	9	81	21	-	-	-	111	74	85	130
58		-	-	3	40	22	2	1	-	68	70	73	109
60		-	-	-	27	17	3	1	1	49	61	65	80
62		-	-	-	20	10	4	2	-	36	47	44	57
64		-	-	-	9	13	2	1	-	25	38	27	34
66		-	-	-	1	3	3	2	1	10	26	10	8
68		-	-	-	-	8	1	3	1	13	19	8	5
70		-	-	-	-	-	1	1	2	4	13	9	4
72		-	-	-	-	-	-	-	2	2	4	5	-
74		-	-	-	-	-	2	1	5	8	5	5	1
76		-	-	-	-	-	-	1	5	6	3	3	-
78		-	-	-	-	-	-	2	-	2	1	1	-
80		-	-	-	-	-	-	-	-	-	1	1	-
82		-	-	-	-	-	-	-	-	-	1	-	-
84		-	-	-	-	-	-	-	-	-	1	-	-
Total No. of Ages Read		160	28	71	556	128	18	15	17	993	1000    1000    1000		
Serial Numbers													
X		Number of fish measured each month									1662	1888	1294
		Mean length of fish (cm) each month									52.83	52.48	53.85
		Mean weight of fish (kg) each month									1.60	1.58	1.65
		Total weight caught or landed (tons) each month									2696	2261	2372
		Estimated number caught or landed (whole numbers) each month									1685800	1432600	1433900
		Range of depths (m) each month									37-201	24-219	27-274
		Mesh size (mm)									114	114	114

## AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	2	3	4	5	6	7	8	9	Total
Jul	159	29	67	530	143	28	22	22	1000
Aug	148	30	73	564	132	20	15	18	1000
Sep	95	20	69	615	163	21	12	5	1000



TABLE 48  
(Cont'd)

AGE/LENGTH TABLE - HADDOCK - 5Z - 1968 (4th QUARTER)

GEAR		Otter Trawl (Commercial)											
CATCHES OR LANDINGS		Landings											
COUNTRY		United States											
TONNAGE		0-458											
STRUCTURES USED IN AGE DETERMINATION		Scales											
Length Group (2 cm)	Age									Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
		2	3	4	5	6	7	8	9		Months Within Quarter		
											Oct	Nov	Dec
36		-	-	-	1	-	-	-	-	1	-	1	1
38		4	-	-	-	-	-	-	-	4	4	2	-
40		6	-	-	-	-	-	-	-	8	8	12	8
42		23	3	1	1	-	-	-	-	34	23	31	12
44		16	-	2	7	-	-	-	-	25	32	53	33
46		22	1	1	21	-	-	-	-	45	55	80	62
48		21	5	2	16	1	-	-	-	45	74	82	108
50		24	4	1	29	1	1	-	-	60	67	51	155
52		13	6	7	36	2	-	-	-	64	95	66	144
54		5	-	2	53	4	-	-	-	64	104	68	118
56		1	2	5	39	14	2	1	-	65	115	97	87
58		1	-	2	62	12	1	-	-	78	121	61	82
60		-	-	-	33	9	1	2	-	45	112	80	70
62		-	-	-	19	16	-	-	-	35	81	77	51
64		-	-	-	8	15	1	-	-	24	49	47	17
66		-	-	-	4	9	3	2	-	18	27	64	32
68		-	-	-	-	1	2	1	1	5	12	23	15
70		-	-	-	-	1	2	1	1	4	10	31	3
72		-	-	-	-	-	-	1	1	2	6	23	2
74		-	-	-	-	-	-	-	3	3	2	21	1
76		-	-	-	-	-	-	-	-	-	-	10	-
78		-	-	-	-	-	1	-	-	2	1	8	1
80		-	-	-	-	-	-	-	1	1	-	11	-
82		-	-	-	-	-	-	-	-	-	1	1	-
Total No. of Ages Read		136	21	24	336	85	14	8	8	632	1000	1000	1000
Serial Numbers		No. of Age Samples 38											
X		Number of fish measured each month									.1405	1137	1031
		Mean length of fish (cm) each month									55.78	57.06	54.09
		Mean weight of fish (kg) each month									1.91	2.12	1.74
		Total weight caught or landed (tons) each month									1972	1376	704
		Estimated number caught or landed (whole numbers) each month									1030700	647200	403500
		Range of depths (m) each month									18-307	51-219	33-293
		Mesh size (mm)									114	114	114

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	2	3	4	5	6	7	8	9	Total
Oct	165	28	36	553	164	26	18	10	1000
Nov	186	26	32	451	166	49	36	54	1000
Dec	218	42	42	542	115	22	12	7	1000

TABLE 49

LENGTH FREQUENCIES - REDFISH - 1A - 1968

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Prawn Trawl		
CATCHES/LANDINGS	(Research)		
MONTH	NK		
COUNTRY	July		
SPECIES OR TYPE	Denmark (Greenland)		
SEX	♂	NK	Tot.
TONNAGE		99	
		< 50	
6	-	-	9
7	-	-	13
8	-	-	41
9	-	-	243
10	-	-	327
11	-	-	143
12	-	-	78
13	-	-	69
14	-	-	51
15	-	-	13
16	-	-	6
17	-	-	2
18	-	-	1
19	-	-	3
20	-	-	-
21	-	-	1
Total ‰	-	-	1000
Serial Numbers	-	-	-
Number of Samples	-	-	-
Number of Fish Measured	-	-	1187
Mean Length (cm)	-	-	10.5
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	-	-	-
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	-
Range of Depths (fm)	-	-	129-143

TABLE 50

LENGTH FREQUENCIES - REDFISH - 1B - 1968

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Cod Trawl with Bobbins (Research)		
CATCHES/LANDINGS	NK		
MONTH	July		
COUNTRY	Denmark (Greenland)		
SPECIES OR TYPE	NK		
SEX	♂	♀	Tot.
TONNAGE	<50		
17	-	-	46
18	-	-	92
19	-	-	172
20	-	-	57
21	-	-	69
22	-	-	80
23	-	-	92
24	-	-	80
25	-	-	34
26	-	-	69
27	-	-	57
28	-	-	34
29	-	-	34
30	-	-	11
31	-	-	46
32	-	-	-
33	-	-	-
34	-	-	11
35	-	-	-
36	-	-	-
37	-	-	-
38	-	-	-
39	-	-	-
40	-	-	-
41	-	-	-
42	-	-	-
43	-	-	-
44	-	-	11
Total ‰	-	-	995
Serial Numbers	-	-	-
Number of Samples	-	-	-
Number of Fish Measured	-	-	87
Mean Length (cm)	-	-	23.0
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	-	-	-
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	40
Range of Depths (fm)	-	-	239-264

TABLE 50  
(Cont'd)

## LENGTH FREQUENCIES - REDFISH - 1B - 1968

(FREQUENCIES IN % - 1 CM GROUPS)

GEAR	Prawn Trawl (Research)		
CATCHES/LANDINGS	NK		
MONTH	July		
COUNTRY	Denmark (Greenland)		
SPECIES OR TYPE	NK		
SEX	♂	♀	Tot.
TONNAGE	<50		
6	-	-	23
7	-	-	149
8	-	-	69
9	-	-	31
10	-	-	106
11	-	-	126
12	-	-	29
13	-	-	51
14	-	-	77
15	-	-	23
16	-	-	37
17	-	-	29
18	-	-	57
19	-	-	63
20	-	-	40
21	-	-	29
22	-	-	14
23	-	-	9
24	-	-	9
25	-	-	6
26	-	-	9
27	-	-	9
51	-	-	3
52	-	-	-
53	-	-	-
54	-	-	3
55	-	-	-
56	-	-	-
57	-	-	-
58	-	-	-
59	-	-	-
60	-	-	-
61	-	-	-
62	-	-	-
63	-	-	-
64	-	-	-
65	-	-	-
66	-	-	-
67	-	-	-
68	-	-	-
69	-	-	3
Total %/oo	-	-	1004
Serial Numbers	-	-	-
Number of Samples	-	-	-
Number of Fish Measured	-	-	350
Mean Length (cm)	-	-	13.4
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	-	-	-
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	18
Range of Depths (fm)	-	-	234-245

TABLE 51

LENGTH FREQUENCIES - REDFISH - 1C - 1968

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	Prawn Trawl		
CATCHES/LANDINGS	(Research)		
MONTH	NK		
COUNTRY	August		
SPECIES OR TYPE	Denmark (Greenland)		
SEX	♂	NK	Tot.
TONNAGE		<50	
18	-	-	6
19	-	-	-
20	-	-	-
21	-	-	-
22	-	-	19
23	-	-	26
24	-	-	32
25	-	-	32
26	-	-	71
27	-	-	84
28	-	-	97
29	-	-	110
30	-	-	110
31	-	-	110
32	-	-	77
33	-	-	58
34	-	-	19
35	-	-	39
36	-	-	26
37	-	-	19
38	-	-	32
39	-	-	6
40	-	-	-
41	-	-	6
42	-	-	6
43	-	-	6
44	-	-	-
45	-	-	-
46	-	-	-
47	-	-	-
48	-	-	-
49	-	-	6
Total 0/00	-	-	997
Serial Numbers	-	-	-
Number of Samples	-	-	-
Number of Fish Measured	-	-	155
Mean Length (cm)	-	-	30.1
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	-	-	-
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	18
Range of Depths (fm)	-	-	264-281

TABLE 52

LENGTH FREQUENCIES - REDFISH - 1D - 1968

(FREQUENCIES IN  $\text{‰}$  - 1 CM GROUPS)

GEAR	Crab Trawl (Research)		
CATCHES/LANDINGS	NK		
MONTH	February		
COUNTRY	Denmark (Greenland)		
SPECIES OR TYPE	NK		
SEX	♂	♀	Tot.
TONNAGE	< 50		
17	-	-	7
18	-	-	-
19	-	-	-
20	-	-	7
21	-	-	7
22	-	-	-
23	-	-	-
24	-	-	14
25	-	-	14
26	-	-	29
27	-	-	-
28	-	-	29
29	-	-	36
30	-	-	29
31	-	-	43
32	-	-	36
33	-	-	57
34	-	-	50
35	-	-	57
36	-	-	36
37	-	-	114
38	-	-	50
39	-	-	129
40	-	-	93
41	-	-	71
42	-	-	21
43	-	-	21
44	-	-	14
45	-	-	-
46	-	-	-
47	-	-	7
48	-	-	7
49	-	-	-
50	-	-	-
51	-	-	7
52	-	-	-
53	-	-	-
54	-	-	-
55	-	-	-
56	-	-	-
57	-	-	-
58	-	-	-
59	-	-	7
60	-	-	-
61	-	-	-
62	-	-	-
63	-	-	7
Total $\text{‰}$	-	-	999
Serial Numbers	-	-	-
Number of Samples	-	-	-
Number of Fish Measured	-	-	140
Mean Length (cm)	-	-	36.0
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	-	-	-
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	-
Range of Depths (fm)	-	-	138-220

TABLE 52  
(Cont'd)

LENGTH FREQUENCIES - REDFISH - 1D - 1968

(FREQUENCIES IN %/oo - 1 CM GROUPS)

GEAR	Prawn Trawl											
	(Research)											
CATCHES/LANDINGS	NK											
MONTH	January			February			April			May		
COUNTRY	Denmark (Greenland)											
SPECIES OR TYPE	NK											
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	< 50											
4	-	-	2	-	-	-	-	-	-	-	-	-
5	-	-	3	-	-	8	-	-	8	-	-	3
6	-	-	13	-	-	14	-	-	32	-	-	75
7	-	-	27	-	-	4	-	-	12	-	-	66
8	-	-	168	-	-	19	-	-	4	-	-	18
9	-	-	185	-	-	44	-	-	41	-	-	51
10	-	-	50	-	-	51	-	-	89	-	-	60
11	-	-	9	-	-	13	-	-	60	-	-	69
12	-	-	60	-	-	28	-	-	19	-	-	21
13	-	-	60	-	-	38	-	-	31	-	-	42
14	-	-	66	-	-	42	-	-	70	-	-	60
15	-	-	28	-	-	38	-	-	129	-	-	123
16	-	-	28	-	-	17	-	-	64	-	-	117
17	-	-	30	-	-	20	-	-	25	-	-	102
18	-	-	41	-	-	25	-	-	19	-	-	15
19	-	-	25	-	-	23	-	-	49	-	-	18
20	-	-	30	-	-	21	-	-	71	-	-	30
21	-	-	16	-	-	16	-	-	49	-	-	15
22	-	-	22	-	-	17	-	-	30	-	-	9
23	-	-	14	-	-	30	-	-	26	-	-	9
24	-	-	14	-	-	19	-	-	20	-	-	-
25	-	-	19	-	-	32	-	-	10	-	-	3
26	-	-	16	-	-	31	-	-	6	-	-	-
27	-	-	13	-	-	43	-	-	3	-	-	9
28	-	-	13	-	-	28	-	-	2	-	-	6
29	-	-	9	-	-	36	-	-	2	-	-	6
30	-	-	13	-	-	40	-	-	3	-	-	3
31	-	-	5	-	-	20	-	-	-	-	-	3
32	-	-	3	-	-	32	-	-	2	-	-	12
33	-	-	3	-	-	18	-	-	1	-	-	9
34	-	-	-	-	-	20	-	-	1	-	-	3
35	-	-	3	-	-	15	-	-	4	-	-	9
36	-	-	-	-	-	11	-	-	2	-	-	6
37	-	-	5	-	-	10	-	-	3	-	-	6
38	-	-	-	-	-	7	-	-	1	-	-	6
39	-	-	5	-	-	5	-	-	1	-	-	3
40	-	-	-	-	-	5	-	-	2	-	-	-
41	-	-	-	-	-	3	-	-	-	-	-	-
42	-	-	-	-	-	2	-	-	1	-	-	-
43	-	-	3	-	-	1	-	-	-	-	-	6
44	-	-	2	-	-	4	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-	-	-	3
46	-	-	-	-	-	-	-	-	-	-	-	-
47	-	-	-	-	-	-	-	-	-	-	-	-
48	-	-	-	-	-	-	-	-	-	-	-	3
49	-	-	-	-	-	1	-	-	-	-	-	-
52	-	-	2	-	-	-	-	-	-	-	-	-
58	-	-	-	-	-	-	-	-	1	-	-	-
62	-	-	-	-	-	-	-	-	1	-	-	-
Total %/oo	-	-	1005	-	-	1002	-	-	996	-	-	999
Serial Numbers	-	-	-	-	-	-	-	-	-	-	-	-
Number of Samples	-	-	-	-	-	-	-	-	-	-	-	-
Number of Fish Measured	-	-	638	-	-	851	-	-	894	-	-	333
Mean Length (cm)	-	-	14.3	-	-	21.5	-	-	15.9	-	-	15.1
Mean Weight (kg)	-	-	-	-	-	-	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	-	-	-	-	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	18	-	-	18	-	-	18	-	-	18
Range of Depths (fm)	-	-	121-143	-	-	138-316	-	-	165-341	-	-	151-176

TABLE 52 LENGTH FREQUENCIES - REDFISH - 1D - 1968  
(Cont'd)

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Prawn Trawl			Pound Net		
	(Research)					
CATCHES/LANDINGS	November			May		
MONTH	Denmark (Greenland)					
COUNTRY	NK					
SPECIES OR TYPE	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
SEX	50					
TONNAGE						
5	-	-	3	-	-	-
6	-	-	27	-	-	-
7	-	-	95	-	-	-
8	-	-	37	-	-	-
9	-	-	26	-	-	-
10	-	-	30	-	-	-
11	-	-	26	-	-	-
12	-	-	11	-	-	-
13	-	-	9	-	-	-
14	-	-	17	-	-	-
15	-	-	31	-	-	-
16	-	-	23	-	-	-
17	-	-	30	-	-	-
18	-	-	26	-	-	-
19	-	-	45	-	-	-
20	-	-	58	-	-	-
21	-	-	49	-	-	-
22	-	-	23	-	-	-
23	-	-	55	-	-	-
24	-	-	62	-	-	-
25	-	-	70	-	-	-
26	-	-	52	-	-	-
27	-	-	61	-	-	-
28	-	-	32	-	-	-
29	-	-	32	-	-	-
30	-	-	16	-	-	-
31	-	-	8	-	-	-
32	-	-	13	-	-	-
33	-	-	6	-	-	-
34	-	-	5	-	-	-
35	-	-	5	-	-	8
36	-	-	1	-	-	4
37	-	-	3	-	-	10
38	-	-	2	-	-	8
39	-	-	3	-	-	18
40	-	-	2	-	-	49
41	-	-	3	-	-	82
42	-	-	-	-	-	92
43	-	-	2	-	-	110
44	-	-	1	-	-	133
45	-	-	-	-	-	135
46	-	-	1	-	-	92
47	-	-	-	-	-	106
48	-	-	-	-	-	69
49	-	-	-	-	-	41
50	-	-	-	-	-	27
51	-	-	-	-	-	8
52	-	-	-	-	-	2
53	-	-	-	-	-	2
54	-	-	-	-	-	-
55	-	-	-	-	-	2
Total ‰	-	-	1001	-	-	998
Serial Numbers	-	-	-	-	-	-
Number of Samples	-	-	-	-	-	-
Number of Fish Measured	-	-	1318	-	-	489
Mean Length (cm)	-	-	19.5	-	-	44.3
Mean Weight (kg)	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	18	-	-	-
Range of Depths (fm)	-	-	ca. 143	-	-	-



TABLE 53

LENGTH FREQUENCIES - REDFISH - 2J - 1968

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl											
	(Commercial)			(Research)								
CATCHES/LANDINGS	Catches											
MONTH	November			April			June			December		
COUNTRY	Poland			USSR								
SPECIES OR TYPE	<i>S. mentella</i>											
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	2799			3600								
15	-	1	1	-	-	-	-	-	-	-	-	-
16	-	1	1	-	-	-	-	-	-	-	-	-
17	-	1	1	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-
19	-	1	1	-	-	-	-	-	-	-	-	-
20	1	-	1	-	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-	-	-	-	-
22	1	-	1	-	-	-	-	-	-	-	-	-
23	-	1	1	-	3	3	-	-	-	-	-	-
24	2	-	2	2	2	4	2	1	3	-	1	1
25	2	2	4	5	6	11	1	3	4	2	1	3
26	11	1	12	2	3	5	2	4	6	3	2	5
27	15	6	21	15	13	28	4	7	11	7	4	11
28	21	9	30	28	18	46	8	6	14	13	7	20
29	37	11	48	36	23	59	9	9	18	14	7	21
30	42	23	65	71	78	149	13	13	26	25	18	43
31	45	35	80	71	106	177	28	13	41	20	28	48
32	47	39	86	46	50	96	25	21	46	33	34	67
33	49	54	103	36	73	109	17	12	29	18	22	40
34	44	47	91	23	28	51	11	12	23	19	25	44
35	39	48	87	20	20	40	18	20	38	40	37	77
36	23	40	63	11	21	32	28	21	49	30	34	64
37	24	40	64	5	36	41	37	21	58	45	35	80
38	16	32	48	10	5	15	39	32	71	43	38	81
39	13	25	38	5	5	10	45	37	82	29	33	62
40	10	20	30	21	6	27	74	57	131	49	44	93
41	1	19	20	7	6	13	68	72	140	29	35	64
42	3	19	22	5	10	15	44	59	103	24	35	59
43	2	18	20	3	13	16	18	19	37	13	20	33
44	2	16	18	2	15	17	12	11	23	10	11	21
45	2	12	14	2	11	13	7	15	22	9	19	28
46	-	10	10	-	10	10	2	11	13	5	10	15
47	1	5	6	2	6	8	1	7	8	2	8	10
48	-	4	4	-	3	3	-	2	2	-	5	5
49	-	4	4	-	-	-	-	-	-	1	1	2
50	-	3	3	-	2	2	-	2	2	1	1	2
51	-	-	-	-	-	-	-	-	-	-	-	-
52	-	-	-	-	-	-	-	-	-	-	1	1
Total ‰	453	547	1000	428	572	1000	513	487	1000	484	516	1000
Serial Numbers	-	-	-	-	-	-	-	-	-	-	-	-
Number of Samples	-	-	1	-	-	-	-	-	-	-	-	-
Number of Fish Measured	562	679	1241	260	348	608	1154	1097	2251	1744	1856	3600
Mean Length (cm)	-	-	-	32.28	33.65	33.07	37.64	38.35	37.99	36.40	37.42	36.92
Mean Weight (kg)	-	-	-	-	-	-	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	-	-	-	36	-	-	118	-	-	60
Estimated Number Landed	-	-	-	-	-	-	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	114	-	-	110	-	-	110	-	-	110
Range of Depths (fm)	-	-158-197	-	-	-211-278	-	-	-270-422	-	-	-162-243	-

TABLE 54

LENGTH FREQUENCIES - REDFISH - 3K - 1968

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl								
	(Commercial)						(Research)		
CATCHES/LANDINGS	Catches								
MONTH	October			November			June		
COUNTRY	Poland						USSR		
SPECIES OR TYPE	<i>S. mentella</i>								
SEX	♂	♀	Tot.	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	2799						3600		
21	-	1	1	-	-	-	1	-	1
22	2	-	2	1	-	1	-	-	-
23	6	3	9	1	-	1	1	-	1
24	3	5	8	1	-	1	2	1	3
25	3	3	6	3	1	4	2	2	4
26	3	4	7	-	2	2	3	2	5
27	4	4	8	5	2	7	6	5	11
28	4	1	5	10	7	17	8	8	16
29	6	3	9	14	17	31	13	9	22
30	9	5	14	30	26	56	21	14	35
31	14	5	19	36	39	75	22	15	37
32	26	11	37	46	61	107	32	22	54
33	42	10	52	57	53	110	19	13	32
34	40	10	50	38	51	89	23	14	37
35	84	17	101	46	40	86	30	28	58
36	62	14	76	39	37	76	35	32	67
37	71	16	87	41	40	81	53	29	82
38	57	19	76	48	38	86	47	40	87
39	37	31	68	33	30	63	42	34	76
40	30	33	63	20	20	40	50	57	107
41	7	28	35	7	18	25	47	46	93
42	4	37	41	3	14	17	25	36	61
43	1	36	37	1	12	13	8	15	23
44	-	44	44	-	6	6	8	10	18
45	-	50	50	-	5	5	7	16	23
46	-	32	32	-	1	1	5	14	19
47	-	26	26	-	-	-	2	6	8
48	-	19	19	-	-	-	1	6	7
49	-	8	8	-	-	-	1	4	5
50	-	6	6	-	-	-	1	5	6
51	-	3	3	-	-	-	-	1	1
52	-	-	-	-	-	-	-	1	1
Total ‰	515	485	1000	480	520	1000	515	485	1000
Serial Numbers	-	-	-	-	-	-	-	-	-
Number of Samples	-	-	2	-	-	1	-	-	-
Number of Fish Measured	590	559	1149	700	758	1458	2609	<del>2456</del>	5065
Mean Length (cm)	35.3	40.8	38.0	34.4	35.1	34.8	36.64	38.21	37.58
Mean Weight (kg)	-	-	-	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	-	-	-	-	-	-	85
Estimated Number Landed	-	-	-	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	114	-	-	114	-	-	110
Range of Depths (fm)	-	-	153-175	-	-	175-197	-	-	165-389

TABLE 54  
(Cont'd)

LENGTH FREQUENCIES - REDFISH - 3K - 1968

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl					
	(Research)					
CATCHES/LANDINGS	Catches					
MONTH	August			December		
COUNTRY	USSR					
SPECIES OR TYPE	<i>S. mentella</i>					
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	3600					
20	1	1	2	-	-	-
21	1	1	2	-	-	-
22	-	1	1	2	-	2
23	1	-	1	-	-	-
24	-	2	2	-	2	2
25	6	4	10	-	-	-
26	2	4	6	-	-	-
27	5	4	9	2	2	4
28	11	8	19	-	-	-
29	17	8	25	-	-	-
30	26	11	37	3	2	5
31	17	14	31	8	9	17
32	26	22	48	20	5	25
33	18	17	35	32	11	43
34	21	18	39	28	11	39
35	31	23	54	38	36	74
36	25	13	38	43	40	83
37	33	13	46	51	70	121
38	38	9	47	31	32	63
39	32	11	43	40	47	87
40	18	24	42	40	45	85
41	8	25	33	34	54	88
42	4	38	42	31	34	65
43	3	38	41	18	15	33
44	1	35	36	17	32	49
45	-	44	44	15	28	43
46	-	54	54	5	14	19
47	1	28	29	12	26	38
48	-	44	44	5	3	8
49	-	58	58	-	5	5
50	-	41	41	-	2	2
51	-	18	18	-	-	-
52	-	11	11	-	-	-
53	-	7	7	-	-	-
54	-	3	3	-	-	-
55	-	2	2	-	-	-
Total ‰	346	654	1000	475	525	1000
Serial Numbers	-	-	-	-	-	-
Number of Samples	-	-	-	-	-	-
Number of Fish Measured	415	785	1200	309	341	650
Mean Length (cm)	34.65	42.38	39.70	38.15	39.61	38.92
Mean Weight (kg)	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	62	-	-	36
Estimated Number Landed	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	110	-	-	110
Range of Depths (fm)	-	-	157-205	-	-	157-324

TABLE 55

LENGTH FREQUENCIES - REDFISH - 3N - 1968

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl		
CATCHES/LANDINGS	(Research)		
MONTH	Catches		
COUNTRY	March		
SPECIES OR TYPE	USSR		
SEX	<i>S. mentella</i>		
TONNAGE	♂	♀	Tot.
		3600	
20	-	1	1
21	1	1	2
22	2	2	4
23	2	2	4
24	5	6	11
25	13	7	20
26	51	12	63
27	65	33	98
28	102	36	138
29	78	27	105
30	59	38	97
31	50	56	106
32	15	22	37
33	22	20	42
34	5	17	22
35	14	26	40
36	21	21	42
37	10	10	20
38	6	10	16
39	4	13	17
40	2	18	20
41	5	15	20
42	2	21	23
43	2	19	21
44	3	13	16
45	1	7	8
46	-	4	4
47	-	2	2
48	-	1	1
Total ‰	540	460	1000
Serial Numbers	-	-	-
Number of Samples	-	-	-
Number of Fish Measured	679	579	1258
Mean Length (cm)	29.81	33.58	31.54
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	-	-	32
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	110
Range of Depths (fm)	-	-	59-178

TABLE 56

LENGTH FREQUENCIES - REDFISH - 30 - 1968

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	NK		
	(Commercial)		
CATCHES/LANDINGS	Catches		
MONTH	February		
COUNTRY	Poland		
SPECIES OR TYPE	<i>S. mentella</i>		
SEX	♂	♀	Tot.
TONNAGE	807		
11	-	8	8
12	-	4	4
13	-	-	-
14	-	4	4
15	4	8	12
16	4	-	4
17	8	8	16
18	4	-	4
19	-	4	4
20	8	-	8
21	4	4	8
22	-	-	-
23	8	8	16
24	8	8	16
25	19	12	31
26	35	12	47
27	12	15	27
28	19	8	27
29	78	39	117
30	98	55	153
31	75	47	122
32	82	43	125
33	27	43	70
34	20	43	63
35	4	39	43
36	-	35	35
37	-	16	16
38	-	8	8
39	-	-	-
40	4	-	4
41	4	4	8
Total ‰	475	525	1000
Serial Numbers	-	-	-
Number of Samples	1	1	1
Number of Fish Measured	134	121	255
Mean Length (cm)	29.3	30.4	29.8
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	-	-	-
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	114
Range of Depths (fm)	-	-	80-180

TABLE 57

LENGTH FREQUENCIES - REDFISH - 4R - 1968

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl (Commercial)												
	Landings After Discard			Landings									
CATCHES/LANDINGS	March			July			September			October			
MONTH	Canada (Newfoundland)			Canada (Maritimes)									
COUNTRY													
SPECIES OR TYPE													
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	NK	Tot.
TONNAGE	501-900			151-500									
16	-	-	-	-	-	-	-	-	-	-	-	3	3
17	-	-	-	-	-	-	-	-	-	-	-	5	5
18	-	-	-	-	-	-	-	-	-	-	-	4	4
19	-	-	-	-	-	-	-	-	-	-	-	6	6
20	3	-	3	-	-	-	-	-	-	-	-	9	9
21	3	-	3	-	-	-	-	-	-	3	-	-	3
22	3	-	3	-	-	-	-	-	-	2	1	-	3
23	6	-	6	-	-	-	-	-	-	3	-	-	3
24	23	3	26	4	-	4	2	-	2	9	4	-	13
25	51	6	57	7	2	9	2	-	2	19	6	-	25
26	54	6	60	27	13	40	37	-	37	37	12	-	49
27	83	9	92	70	20	90	71	21	92	97	34	-	131
28	71	11	82	88	44	132	82	34	116	128	66	-	194
29	51	29	80	88	38	126	110	53	163	95	68	-	163
30	29	26	55	121	84	205	148	57	205	78	90	-	168
31	29	49	78	53	88	141	57	68	125	29	59	-	88
32	14	37	51	31	86	117	39	73	112	7	39	-	46
33	11	54	65	7	46	53	16	57	73	6	37	-	43
34	14	14	28	2	38	40	7	21	28	-	20	-	20
35	17	17	34	7	11	18	5	11	16	3	7	-	10
36	-	3	3	2	5	7	-	2	2	1	4	-	5
37	3	6	9	-	9	9	7	7	14	1	3	-	4
38	3	3	6	-	4	4	2	9	11	-	3	-	3
39	6	3	9	-	4	4	-	2	2	-	2	-	2
40	3	-	3	-	-	-	-	-	-	-	-	-	-
41	-	9	9	-	-	-	-	-	-	-	-	-	-
42	-	11	11	-	-	-	-	-	-	-	-	-	-
43	-	6	6	-	-	-	-	-	-	-	-	-	-
44	6	6	12	-	-	-	-	-	-	-	-	-	-
45	6	6	12	-	-	-	-	-	-	-	-	-	-
46	-	9	9	-	-	-	-	-	-	-	-	-	-
47	-	6	6	-	-	-	-	-	-	-	-	-	-
48	-	14	14	-	-	-	-	-	-	-	-	-	-
49	3	14	17	-	-	-	-	-	-	-	-	-	-
50	-	17	17	-	-	-	-	-	-	-	-	-	-
51	-	17	17	-	-	-	-	-	-	-	-	-	-
52	-	29	29	-	-	-	-	-	-	-	-	-	-
53	-	26	26	-	-	-	-	-	-	-	-	-	-
54	-	9	9	-	-	-	-	-	-	-	-	-	-
55	-	20	20	-	-	-	-	-	-	-	-	-	-
56	-	17	17	-	-	-	-	-	-	-	-	-	-
57	-	9	9	-	-	-	-	-	-	-	-	-	-
58	-	9	9	-	-	-	-	-	-	-	-	-	-
59	-	3	3	-	-	-	-	-	-	-	-	-	-
Total ‰	492	513	1005	507	492	999	585	415	1000	518	455	27	1000
Serial Numbers	-	-	-	-	151-152		-	153-154		-	-	155-158	
Number of Samples	-	-	1	-	-	2	-	-	2	-	-	-	4
Number of Fish Measured	172	178	350	230	223	453	256	182	438	494	434	26	954
Mean Length (cm)	28.79	40.33	34.66	29.1	31.1	30.1	29.4	31.2	30.1	28.2	30.1	18.5	28.8
Mean Weight (kg)	-	-	0.840	-	-	0.40	-	-	0.42	-	-	-	0.33
Total Weight Landed (tons)	-	-	46.4	-	-	1280	-	-	2094	-	-	-	1871
Estimated Number Landed	-	-	55238	-	-	32000 <sup>1</sup>	-	-	49857 <sup>1</sup>	-	-	-	56697 <sup>1</sup>
Mesh(mm) or Hook(no.) Size	-	-	Large	-	-	4 1/2 <sup>2</sup>	-	-	3-4 3/8 <sup>2</sup>	-	-	-	3-4 3/8 <sup>2</sup>
Range of Depths (fm)	-	-	180	-	-	100-150	-	-	140-150	-	-	-	130-150

<sup>1</sup> Numbers in 100's<sup>2</sup> inches

TABLE 58

LENGTH FREQUENCIES - REDFISH - 4R AND 4S

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl (Commercial)		
CATCHES/LANDINGS	Landings		
MONTH	October		
COUNTRY	Canada (Maritimes)		
SPECIES OR TYPE	NK		
SEX	♂	♀	Tot.
TONNAGE	151-500		
26	19	11	30
27	42	11	53
28	58	40	98
29	79	53	132
30	77	56	133
31	79	58	137
32	77	82	159
33	53	109	162
34	13	42	55
35	8	3	11
36	5	5	10
37	-	5	5
38	3	3	6
39	-	3	3
40	3	-	3
41	-	-	-
42	-	-	-
43	-	-	-
44	-	-	-
45	-	1	1
46	-	-	-
47	-	1	1
Total ‰	516	483	999
Serial Numbers	-	-	159
Number of Samples	-	-	1
Number of Fish Measured	195	183	378
Mean Length (cm)	30.3	31.4	30.8
Mean Weight (kg)	-	-	0.46
Total Weight Landed (tons)	-	-	-
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	3 <sup>1</sup>
Range of Depths (fm)	-	-	100-150

1 inches

TABLE 59 LENGTH FREQUENCIES - REDFISH - 4S - 1968

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl								
	(Commercial)								
CATCHES/LANDINGS	Landings								
MONTH	June			August			September		
COUNTRY	Canada (Maritimes)								
SPECIES OR TYPE	NK								
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	51-150								
23	5	5	10	-	-	-	-	2	2
24	40	-	40	10	-	10	12	-	12
25	40	5	45	10	-	10	30	-	30
26	120	10	130	70	10	80	65	7	72
27	180	35	215	105	35	140	103	22	125
28	110	45	155	115	55	170	102	20	122
29	55	40	95	70	55	125	113	45	158
30	85	30	115	115	60	175	73	55	128
31	40	60	100	75	35	110	78	52	130
32	20	25	45	40	35	75	35	50	85
33	5	20	25	15	30	45	22	43	65
34	5	5	10	30	-	30	2	18	20
35	-	10	10	15	-	15	8	12	20
36	-	-	-	-	-	-	5	-	5
37	-	-	-	5	10	15	5	3	8
38	5	-	5	-	-	-	3	5	8
39	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	3	2	5
41	-	-	-	-	-	-	3	2	5
Total ‰	710	290	1000	675	325	1000	662	338	1000
Serial Numbers	-	-	160	-	-	161	-	-	162-163
Number of Samples	-	-	1	-	-	1	-	-	2
Number of Fish Measured	142	58	200	135	65	200	-	-	400
Mean Length (cm)	27.7	29.7	28.3	29.1	29.9	29.4	29.0	31.0	29.6
Mean Weight (kg)	-	-	0.36	-	-	0.40	-	-	0.41
Total Weight Landed (tons)	-	-	2581	-	-	4022	-	-	4940
Estimated Number Landed	-	-	71694 <sup>1</sup>	-	-	100550 <sup>1</sup>	-	-	120488 <sup>1</sup>
Mesh(mm) or Hook(no.) Size	-	-	3 <sup>2</sup>	-	-	3 <sup>2</sup>	-	-	3 <sup>2</sup>
Range of Depths (fm)	-	-	125-145	-	-	150	-	-	118-225

<sup>1</sup> Numbers in 100's<sup>2</sup> inches



TABLE 59  
(Cont'd)

LENGTH FREQUENCIES - REDFISH - 4S - 1968

(FREQUENCIES IN ‰, - 1 CM GROUPS)

GEAR	Otter Trawl (Commercial)					
	Landings					
CATCHES/LANDINGS	October			November		
MONTH	Canada (Maritimes)					
COUNTRY	NK					
SPECIES OR TYPE	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
SEX	51-150					
TONNAGE						
24	10	-	10	-	-	-
25	5	-	5	-	-	-
26	25	-	25	15	-	20
27	25	5	30	50	15	65
28	45	10	55	90	55	145
29	55	10	65	115	60	175
30	55	15	70	110	55	165
31	50	55	105	25	100	125
32	55	90	145	30	90	120
33	40	110	150	25	50	75
34	20	85	105	20	25	45
35	40	55	95	10	-	10
36	45	15	60	10	20	30
37	5	10	15	-	-	-
38	-	25	25	5	5	10
39	-	10	10	5	5	10
40	5	10	15	-	5	5
41	-	15	15	-	-	-
Total ‰	480	520	1000	510	490	1000
Serial Numbers	-	-	164	-	-	165
Number of Samples	-	-	1	-	-	1
Number of Fish Measured	96	104	200	102	98	200
Mean Length (cm)	31.1	33.6	32.4	29.9	31.1	30.5
Mean Weight (kg)	-	-	0.52	-	-	0.45
Total Weight Landed (tons)	-	-	2681	-	-	1804
Estimated Number Landed	-	-	51558 <sup>1</sup>	-	-	40089 <sup>1</sup>
Mesh(mm) or Hook(no.) Size	-	-	3 <sup>2</sup>	-	-	3 <sup>2</sup>
Range of Depths (fm)	-	-	130	-	-	145

<sup>1</sup> Numbers in 100's<sup>2</sup> inches

TABLE 60

LENGTH FREQUENCIES - REDFISH - 4R, 4S AND 4T - 1968

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl (Commercial)											
	Landings											
CATCHES/LANDINGS	May			June			July			August		
MONTH	United States											
COUNTRY	NK											
SPECIES OF TYPE	34-440											
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	34-440											
17	-	-	-	-	2	2	-	-	-	1	-	1
18	-	-	-	-	-	-	-	1	1	3	2	5
19	-	-	-	-	-	-	-	-	-	1	1	2
20	-	-	-	2	-	2	3	-	3	1	3	4
21	-	-	-	-	2	2	-	1	1	2	3	5
22	-	-	-	2	-	2	1	-	1	1	-	1
23	-	-	-	3	3	6	1	-	1	5	1	6
24	-	-	-	5	2	7	5	2	7	15	5	20
25	35	-	35	28	8	36	26	7	33	25	16	41
26	85	50	135	77	23	100	64	25	89	55	31	86
27	80	35	115	116	40	156	113	57	170	95	53	148
28	125	45	170	124	44	168	107	75	182	100	83	183
29	110	50	160	94	50	144	94	65	159	89	80	169
30	70	55	125	95	54	149	61	70	131	65	81	146
31	40	90	130	37	47	84	19	65	84	27	65	92
32	5	55	60	7	45	52	5	49	54	7	40	47
33	-	40	40	7	18	25	5	29	34	-	21	21
34	-	5	5	3	22	25	7	13	20	1	5	6
35	5	-	5	-	10	10	4	7	11	5	6	11
36	-	20	20	-	17	17	2	7	9	1	1	2
37	-	-	-	-	12	12	-	3	3	1	4	5
38	-	-	-	-	-	-	-	5	5	-	3	3
39	-	-	-	-	-	-	-	2	2	1	-	1
40	-	-	-	-	2	2	-	1	1	-	2	2
41	-	-	-	-	-	-	-	-	-	-	-	-
42	-	-	-	-	-	-	-	-	-	-	-	-
43	-	-	-	-	-	-	-	1	1	-	-	-
44	-	-	-	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-	-	-	-
46	-	-	-	-	-	-	-	-	-	-	-	-
47	-	-	-	-	-	-	-	-	-	-	-	-
48	-	-	-	-	-	-	-	1	1	-	-	-
Total ‰	555	445	1000	600	400	1000	517	483	1000	495	505	1000
Serial Numbers	-	-	-	-	-	-	-	-	-	-	-	-
Number of Samples	2	2	2	6	6	6	15	15	15	11	11	11
Number of Fish Measured	111	89	200	358	239	597	776	724	1500	545	555	1100
Mean Length (cm)	28.13	30.03	28.97	28.10	30.16	28.93	28.09	29.87	28.95	27.88	29.21	28.55
Mean Weight (kg)	0.35	0.47	0.38	0.35	0.44	0.38	0.35	0.42	0.38	0.34	0.39	0.37
Total Weight Landed (tons)	441	432	873	1398	1170	2568	1580	1780	3360	1264	1482	2746
Estimated Number Landed	12676 <sup>1</sup>	10164 <sup>1</sup>	22840 <sup>1</sup>	40254 <sup>1</sup>	26873 <sup>1</sup>	67127 <sup>1</sup>	45393 <sup>1</sup>	42352 <sup>1</sup>	87745 <sup>1</sup>	36999 <sup>1</sup>	37677 <sup>1</sup>	74676 <sup>1</sup>
Mesh(mm) or Hook(no.) Size	-	-	64	-	-	64	-	-	64	-	-	64
Range of Depths (fm)	-	-	-101-150	-	-	-101-150	-	-	-101-150	-	-	-101-150

<sup>1</sup> Numbers in 100's

TABLE 60  
(Cont'd)

LENGTH FREQUENCIES - REDFISH - 4R, 4S AND 4T - 1968

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl (Commercial)								
	Landings								
CATCHES/LANDINGS	September			October			November		
MONTH	United States								
COUNTRY	NK								
SPECIES OR TYPE									
SEX	♂	♀	Tot.	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	34-440								
18	-	-	-	-	3	3	-	-	-
19	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-
23	-	-	-	3	-	3	-	-	-
24	-	-	-	7	-	7	-	-	-
25	10	3	13	33	7	40	15	5	20
26	40	30	70	67	40	107	60	35	95
27	103	50	153	80	93	173	95	80	175
28	120	63	183	63	117	180	105	140	245
29	113	103	116	73	87	160	60	125	185
30	50	80	130	57	107	164	60	80	140
31	17	80	97	23	77	100	25	65	90
32	10	80	90	-	37	37	5	30	35
33	3	27	30	-	17	17	-	5	5
34	7	-	7	3	3	6	-	5	5
35	-	3	3	-	-	-	-	5	5
36	-	3	3	-	3	3	-	-	-
37	3	-	3	-	-	-	-	-	-
Total ‰	477	523	1000	410	590	1000	425	575	1000
Serial Numbers	-	-	-	-	-	-	-	-	-
Number of Samples	3	3	3	3	3	3	2	2	2
Number of Fish Measured	143	157	300	123	177	300	85	115	200
Mean Length (cm)	28.37	29.69	29.06	27.80	28.98	28.50	28.04	28.91	28.54
Mean Weight (kg)	0.36	0.41	0.39	0.34	0.38	0.36	0.34	0.38	0.36
Total Weight Landed (tons)	1115	1402	2517	806	1313	2119	556	824	1380
Estimated Number Landed	31296 <sup>1</sup>	34360 <sup>1</sup>	65656 <sup>1</sup>	23962 <sup>1</sup>	34482 <sup>1</sup>	58445 <sup>1</sup>	16176 <sup>1</sup>	21886 <sup>1</sup>	38062 <sup>1</sup>
Mesh(mm) or Hook(no.) Size	-	-	64	-	-	64	-	-	64
Range of Depths (fm)	-	-	101-150	-	-	101-150	-	-	101-150

<sup>1</sup> Numbers in 100's

TABLE 61 LENGTH FREQUENCIES - REDFISH - 4T - 1968

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl					
	(Commercial)					
CATCHES/LANDINGS	Landings					
MONTH	June			July		
COUNTRY	Canada (Maritimes)					
SPECIES OR TYPE	NK					
SEX	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	51-150					
20	2	-	2	-	-	-
21	-	-	-	-	-	-
22	3	-	3	-	-	-
23	18	-	18	-	-	-
24	15	5	20	6	-	6
25	82	8	90	9	-	9
26	130	32	162	33	6	39
27	150	50	200	50	18	68
28	118	40	158	95	30	125
29	112	32	144	84	30	114
30	85	20	105	84	59	143
31	38	5	43	39	50	89
32	10	12	22	37	72	109
33	10	3	13	33	80	113
34	-	-	-	18	54	72
35	5	3	8	11	30	41
36	-	-	-	6	9	15
37	5	-	5	4	15	19
38	3	-	3	2	11	13
39	2	-	2	4	13	17
40	-	-	-	2	4	6
41	-	-	-	-	2	2
42	-	2	2	-	-	-
Total ‰	788	212	1000	517	483	1000
Serial Numbers	-	-	166-167	-	-	168-169
Number of Samples	-	-	2	-	-	2
Number of Fish Measured	315	85	400	239	223	462
Mean Length (cm)	27.7	28.2	27.8	29.7	32.2	30.9
Mean Weight (kg)	-	-	0.34	-	-	0.46
Total Weight Landed (tons)	-	-	1003	-	-	82
Estimated Number Landed	-	-	29500 <sup>1</sup>	-	-	1783 <sup>1</sup>
Mesh(mm) or Hook(no.) Size	-	-	4 1/2 <sup>2</sup>	-	-	4 3/8 <sup>2</sup>
Range of Depths (fm)	-	-	140-180	-	-	155

<sup>1</sup> Numbers in 100's  
<sup>2</sup> inches