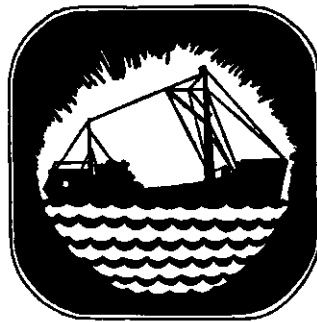


INTERNATIONAL COMMISSION
FOR THE
NORTHWEST ATLANTIC FISHERIES



SAMPLING YEARBOOK VOLUME 6
for the year 1961

Edited by B. F. CALVIN DEBAIE

Tables typed by Gertrude F. Schrader

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Halifax, N.S., Canada

1963

SAMPLING YEARBOOK VOLUME 6

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Edited by B. F. CALVIN DEBAIE

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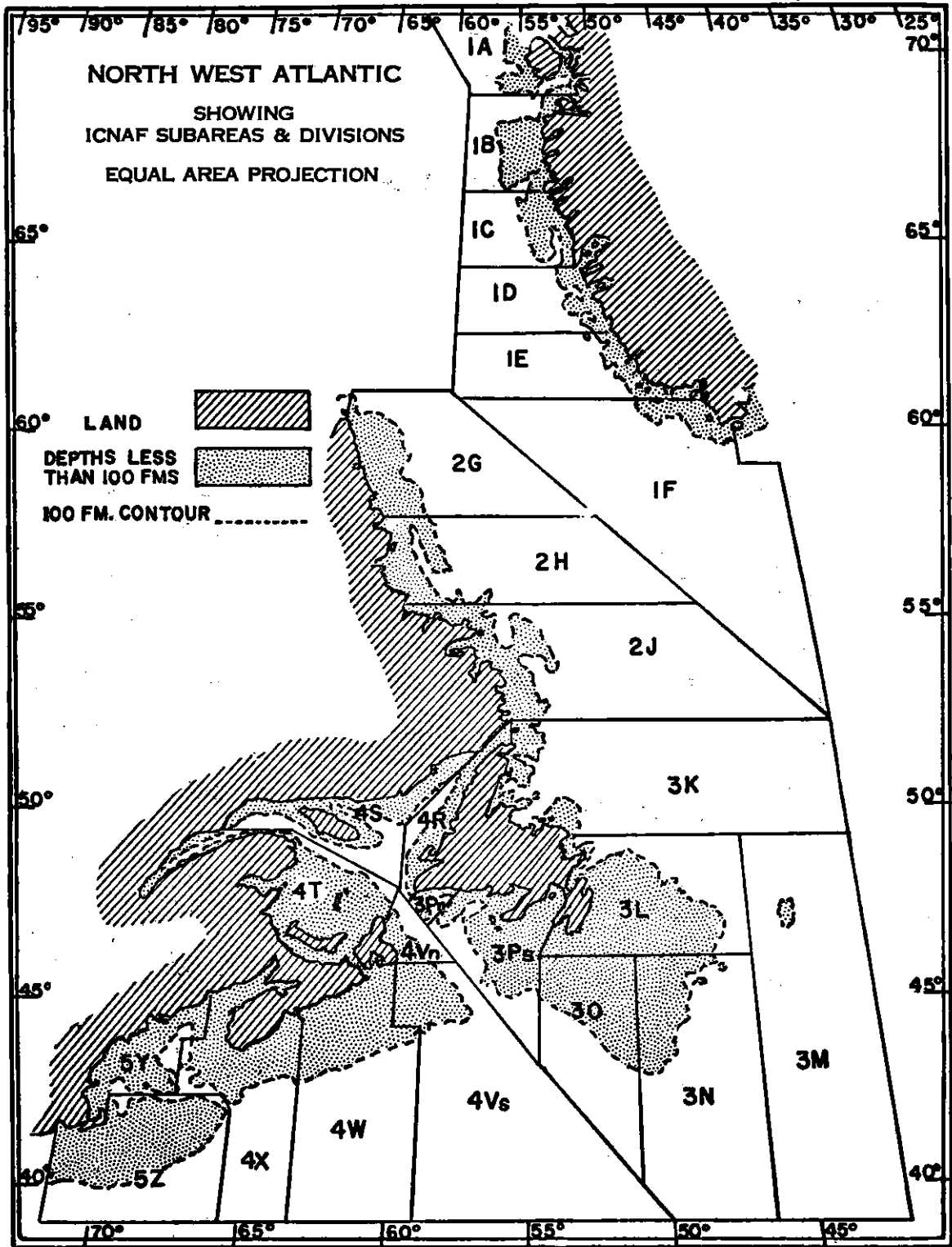
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1963



An Equal Area Map of the ICNAF Convention Area.

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INTRODUCTION

by B. F. Calvin DeBaie

This edition of the Sampling Yearbook summarises the data on lengths, ages and weights of cod, haddock, redfish, American plaice, winter flounder, pollock, white hake and cusk, which have been collected in 1961 to further the investigations of the fisheries and fish stocks of the Northwest Atlantic.

In previous issues it had been the practice of the Commission to publish all data for length frequencies, age frequencies and age/length keys or frequencies, but with the increase in the amount of sampling data, submitted by countries, the Sampling Yearbook has grown extensively in size and it was therefore recommended by the Subcommittee that Age/length keys and frequencies be not published. These have been deposited with the Secretariat and will be made available in mimeographed form to Working Groups and individuals on request. The available data by species is published in table form in its applicable section in the volume.

A further deviation in the presentation of tables from that of previous years has come about as the result of a recommendation made by the Commission in 1961, that the order of break-down should be: SPECIES, AREA, GEAR, MONTH, COUNTRY. This should greatly facilitate the use of this publication by bringing it more in line with the order found in the Statistical Bulletin.

As the result of this change many innovations had to be introduced in this volume in order to bring the inconsistent reporting into a more comparable basis. It should also be noted that the Guide to Tables had been dispensed with since the new order of break-down has made the data more accessible and no need for indexing. All this, it is hoped, has been intended for the better.

Samples are taken either on shore from commercial landings or at sea from the catches of commercial or research vessels. Where the commercial vessel catch is sampled at sea, the samples are taken either before or after the discarding of small, unmarketable fish. In sampling the landings, samples are usually taken from each of the size categories in which the fish are landed, and the overall length frequency estimated by pooling the samples after weighting by the quantity of fish landed in each size category. Since sampling practices vary among countries, some further "Notes on the Sampling Data" are given on pages xi - xv.

It is the intention of the Commission that the data incorporated in the Sampling Yearbook should be readily intercomparable. To this end, the Commission recommended that the fork length recorded to the nearest centimetre be adopted as the standard measure. It further recommended that the length measurements should

be reported by 3-centimetre groups for the cod, by 2-centimetre groups for the haddock and by centimetres for the redfish and flounder and that all frequencies be in a per mille basis. Two methods of measuring fish are now in common use in the Convention Area: the one is the standard measure noted above, which is extensively used in Subareas 2, 3, 4 and 5; the other is the total length measured to the centimetre below, which is used by a few of the countries fishing in Subarea 1. Measuring to the total length gives a greater length than the standard, but this is compensated to some extent when measuring to the centimetre below, which gives a lesser length. Because of the very small differences involved and the limited data available to establish conversion factors, no conversions to standard measure have been made.

For each length or age frequency the following data are reported if available:

Serial Numbers:	The serial numbers (as given by the scientist reporting the data) of the samples on which the frequencies are based.
Number of Samples:	The number of samples on which the frequencies are based.
Number of Fish Measured or Aged:	The total number of fish measured in all the samples on which the frequencies are based.
Mean Length (cm) or Mean Age:	The estimated mean length or age of the catches or landings represented by their frequencies.
Mean Weight (kg):	Given as round, fresh weight unless otherwise noted.
Total Wt. Landed (tons):	The total commercial landings reported in the ICNAF Statistical Bulletin for the month/division, gear and country to which the frequencies refer.
Estimated No.	This figure is calculated by dividing the total weight landed by the mean weight.
Mesh or Hook Size:	The mesh size is given in inches or millimetres and is the internal, stretched diameter of the wet, used mesh unless otherwise stated. (The magnitude of the figure will indicate

the unit.) Hook sizes are given as the code numbers by which the hooks are sold. (The size of the hook is preceded by the abbreviation "no.")

Range of Depths:

Given in fathoms (fm). For landings, the depths are given at which fishing has taken place on the trip from which the samples were taken. For catches sampled at sea, the depths are given of the individual sets from which the samples were taken.

In addition to the regular sampling of the commercial and research vessel catches and landings, a number of special data have been reported and are included here: a series of samples reported by Canada to measure the quantity and sizes of cod discarded at sea (page 43), a table by Portugal giving the weights of whole fish, the liver, the gonads, and the intestines, a table by Spain on lengths of cod comparing morning and evening samples (page 18), and a table by the United Kingdom on numbers landed at British ports from Subarea 1 (page 110).

NOTES ON THE SAMPLING DATA

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 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 and from sampling to measure discarding are reported to the Commission. Age-frequency data are not reported.

All landings are "after discard". In the case of the four paired cod wastage samples, the "sea sample catches" are "before discard".

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 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 given for redfish and American plaice sampled in the Maritime Provinces.

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 and cusk, and 1-cm groups for redfish, flounders and pollock. Mesh size is recorded as the approximate inside, stretched, wet, used, measurement 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 long lines in Quebec.

Canada (Newfoundland)Reported by A.M. Fleming
M. O'Hanlon

Length frequencies based on sampling of the commercial landings of cod, haddock, redfish and American plaice in 1961 are reported. The length frequencies of redfish and American plaice are given by sexes.

All measurements are of commercial landings but all from small inshore boats can be considered as measurements before any discard or selection has taken place.

Length measurements are made of the fork length and recorded to the nearest centimetre. Sampling is carried out on shore, from both the offshore and inshore fleets. The total weight of each sample is obtained, together with the total weight of the species landed from the trip sampled. By means of the weighting factor determined from these data, each sample frequency is raised to give the estimated numbers of each size in the landings sampled. These raised frequencies are then pooled to give length frequencies by month, type of gear and division, and then compiled in 3-centimetre groups for cod, 2-centimetre groups for haddock and American plaice and 1-centimetre groups for redfish.

The 4-inch mesh size recorded for traps is to be considered a minimum.

Although a range of sizes for the meshes in otter trawl is shown, it can be assumed that these represent the 4-inch mesh or equivalent as recommended by ICNAF. Some changes in hook sizes are to be noted. There has been some difficulty in obtaining actual sizes which can be recognized internationally, since many fishermen order by manufacture number. For example, the hand line hooks are Mustad hooks of about 1-1/4 inches in diameter across the hook from the point to the shank and from 3-1/2 to 4-inches long. These are large hooks, much larger than the No. 15 Mustad, and are numbered 3020 and 3021. These are approximately equal to a No. 11 hook. The jigger size is listed as No. 5, is paired and is the largest hook used.

Denmark (Faroes)

Reported by J.S. Joensen

Faroes investigations of commercial cod catches were undertaken and reported to the Secretariat for the first time in 1959. Samples of cod have been taken from commercial catches by otter trawl originating in Divisions 1B, 1D and 1F.

Denmark (Greenland)

Reported by Paul M. Hansen

Samples of cod have been taken from the inshore catches of commercial and research vessels and from the offshore catches of research vessels. The samples are not pooled. Samples of redfish have been taken by shrimp trawls by research vessels. Length measurements are made of the total length (end of tail lobes) and recorded to the centimetre below. Age frequencies, mean size at each age and age/length keys are also reported.

Germany

Reported by Arno Meyer

Age and length frequencies and age/length keys for cod, which were taken from the catches and landings of commercial and research otter trawlers, have been reported for the Convention Area, as well as for the Banks off East Greenland.

Length Measurements are made of the total length (end of tail lobes) and recorded to the centimetre below. The length frequencies are reported to the Commission in standard 3-centimetre groups.

Where sampling of cod is carried out on shore at the market, each of the three size categories landed is sampled separately, and the final length frequency is calculated by weighting each length frequency by the quantity landed in the size category and then pooling the frequencies. Redfish are measured in the whole round state, except for a few large ones. Otoliths are taken according to length of fish.

Iceland

Reported by Jón Jónsson
Jakob Magnusson

Samples of cod and redfish have been reported for 1961. Length measurements are taken from total length to nearest centimetre. (Board is offset 0.5 cm to permit reading to nearest cm).

Norway

Reported by E. Bratberg

Length frequencies, age frequencies with mean size at each age and age/length keys are reported for cod.

Length are reported by the standard 3-centimetre grouping and the age frequencies and age/length keys are given by sexes.

Measurements are made of the fork length to the nearest centimetre.

Some samples for bottom long line are included.

Portugal

Reported by Ruy Monteiro
Glicinia V. Quartin

Sampling at sea of the cod catches (before discarding undersized fish) of the Portuguese otter trawlers has been carried out in 1961 in Subareas 3 and 4. Length frequencies, age frequencies (based on otoliths) with mean size at each age and age/length frequencies by sexes are included in the data reported.

Length measurements are made of the fork length recorded to the nearest centimetre. Samples are not weighted by the quantity caught; when taken on the same fishing bank at the same time, they are generally pooled.

Spain

Reported by O. Rodriguez M.
A. Figueras

Length frequencies of the cod catches of the Spanish otter trawlers collected at sea for the year 1961 are reported. Samples are taken from the commercial catch before discarding.

Length measurements are made of the fork length recorded to the nearest centimetre. Length frequencies are reported in the standard 3-centimetre groups as used by ICNAF. Samples are not weighted according to the quantity caught, but are pooled by month/divisions.

Union of Soviet Socialist Republics

Reported by Ju.Ju. Marty
L.N. Petchenik
A.I. Postolakiy
A. Noskov
V. Rihter
V.A. Tchechova

The length and age frequencies of cod, haddock and redfish catches are reported. Samples are taken at sea, before discarding, from the catches of exploratory and commercial otter trawlers.

United Kingdom

Reported by R.J.H. Beverton
J.A. Gulland
B.C. Bedford

The length composition of the cod catches and landings of the United Kingdom otter trawlers from Subareas 1, 2 and 3 is reported. Measurements are made of the total length to the centimetre below. Samples are taken of each of the size categories into which the landings are divided; the length frequencies so obtained are then pooled, after weighting by the quantity of fish in the category from which they are taken.

United States

Reported by H.E. Murray

(a) Cod: Subarea 5, Otter Trawlers

Each length frequency sample is weighted by the weight of the landing from which it was obtained (by market category for large, market and scrod; by total cod for mixed). The resulting length frequencies are totalled and weighted by total United States cod landings for otter trawlers by month. These numbers are in turn combined into length frequencies for total United States otter trawl cod landings for each month. The percentage of fish for each centimetre interval is then computed, combined into 3-centimetre groups, and finally converted to parts per thousand.

(b) Haddock

Reported by J.A. McCann
(U. S. A.)
F.A. Dreyer
(U. S. A.)
A.C. Kohler
(Canada)
D.N. Fitzgerald
(Canada)

The length frequency samples for each month by market category are pooled and the resulting frequency weighted by the total quantity of each category landed from each unit area. The weighted numbers of fish of each category are then pooled to obtain the total length frequency for haddock for each month to each division.

Length frequencies of haddock by quarters are reported under the United States/Canada Co-operative Programme.

Haddock biostatistical records are reported by the "haddock year": namely, February 1st to January 31st of the following year. The haddock's birthday is taken as February 1st.

(c) Redfish

Reported by A.M. Barker
P.H. Chase

Samples are reported from the commercial landings of otter trawlers.

TABLE 1 LENGTH FREQUENCIES - COD - 1A - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Hand Line (Research & Commercial) 1)		
CATCHES/LANDINGS	NK		
MONTH	July & August	September	October & November
COUNTRY	Denmark (Greenland)		
TONNAGE	NK		
39-41	5	-	-
42-44	20	-	-
45-47	167	40	-
48-50	212	140	-
51-53	91	90	-
54-56	96	20	-
57-59	56	-	-
60-62	-	20	-
63-65	-	20	-
66-68	5	10	15
69-71	15	-	30
72-74	10	60	15
75-77	25	90	60
78-80	51	130	90
81-83	45	50	164
84-86	66	110	149
87-89	35	70	90
90-92	51	90	164
93-95	25	20	104
96-98	5	20	90
99-101	15	10	15
102-104	-	-	-
105-107	-	-	-
108-110	5	-	-
111-113	-	10	-
Total ‰	1000	1000	* 986
Serial Numbers	13	14	12
Number of Samples	-	-	-
Number of Fish Measured	198	100	* 67
Mean Length (cm)	62.0	72.9	-
Mean Weight (Kg)	ca. 3.3	ca. 4.8	-
Total Weight Landed (Tons)	-	-	-
Estimated Number Landed	-	-	-
Mesh or Hook Size	-	-	-
Range of Depths (fm)	-	-	-

1) n/c "Sujumut" and Greenlanders'

* One not measured

TABLE 2 LENGTH FREQUENCIES - COD - IB - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)

YEAR	Otter Trawler					
	Catch ¹⁾		Landings		EK	
CATCHES/LANDINGS	Aug.	Sept.	Sept. ¹⁾	Dec.	May	June
MONTH	United Kingdom		U.K.	Germany	Denmark (F)	
COUNTRY	over 1800		501-900	501-900	955	
TONNAGE						
33-35	110	-	-	-	-	-
36-38	93	6	-	-	-	-
39-41	59	41	7	-	10	3
42-44	30	53	57	-	32	16
45-47	106	102	165	3	105	85
48-50	55	126	249	36	196	159
51-53	64	81	170	102	185	167
54-56	92	78	156	164	124	110
57-59	114	173	59	234	71	63
60-62	66	67	14	141	41	41
63-65	110	81	6	70	39	41
66-68	12	42	19	32	41	47
69-71	19	31	35	36	37	56
72-74	21	37	25	38	33	58
75-77	12	29	23	42	36	55
78-80	22	20	6	39	19	39
81-83	9	13	3	28	16	25
84-86	6	9	1	18	7	13
87-89	-	7	-	8	2	8
90-92	-	2	3	6	3	5
93-95	-	2	-	2	2	3
96-98	-	-	-	1	2	2
99-101	-	-	-	-	-	-
102-104	-	-	-	-	-	1
105-107	-	-	-	-	-	-
108-110	-	-	-	-	-	1
Total ‰	1000	1000	998	1000	1001	998
Serial Numbers	-	-	-	68,70,71	-	-
Number of Samples	1	2	1	3	6	18
Number of Fish Measured	399	816	307	1491	2049	5550
Mean Length (cm)	-	-	-	62.5	-	-
Mean Weight (Kg)	-	-	-	-	-	-
Total Weight Landed (Tons)	-	-	253	665	-	-
Estimated Number Landed	-	-	195689	394005	-	-
Mesh Size (mm)	-	-	-	110	-	-
Range of Depths (fm)	-	-	-	-	45-115	25-170

1) after discard

TABLE 2 LENGTH FREQUENCIES - COD - IB - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)
(cont'd)

GEAR 2)	Bottom Long Line (Research)	Long Line & Hand Line (Research)		Shrimp Trawl ¹⁾ Research & Commercial			
CATCHES/LANDINGS	NK						
MONTH	April	July	Aug.	June	June	July- Aug.	Sept.- Oct.
COUNTRY	Norway	Denmark (Greenland)					
30-32	-	-	6	-	-	-	-
33-35	-	1	3	-	-	-	-
36-38	-	6	6	-	-	-	-
39-41	8	28	34	9	-	-	-
42-44	39	74	37	9	-	20	-
45-47	16	118	115	-	11	30	10
48-50	16	186	172	17	11	110	20
51-53	55	167	152	17	22	180	-
54-56	24	136	140	35	67	180	20
57-59	8	72	100	9	79	110	20
60-62	47	26	29	43	45	50	20
63-65	55	41	17	87	56	30	40
66-68	63	24	37	17	135	10	139
69-71	47	24	29	113	90	70	69
72-74	102	34	34	148	67	70	129
75-77	63	20	23	130	157	60	218
78-80	79	11	20	165	56	20	119
81-83	126	8	17	87	101	30	79
84-86	55	6	9	17	56	20	69
87-89	55	8	6	35	22	-	40
90-92	47	4	11	52	22	10	10
93-95	39	4	3	-	-	-	-
96-98	32	1	-	-	-	-	-
99-101	8	-	-	-	-	-	-
102-104	8	-	-	9	-	-	-
—	-	-	-	-	-	-	-
120-122	8	-	-	-	-	-	-
Total ‰	1000	999	1000	999	997	1000	1002
Serial Numbers	-	7	8	15	16	18	17
Number of Samples	1	-	-	-	-	-	-
Number of Fish Measured	127	795	349	115	89	100	101
Mean Length (cm)	74.01	54.5	55.7	71.2	70.3	59.6	73.7
Mean Weight (Kg)	-	-	-	ca. 3.5	-	ca. 2.3	ca. 5.2
Total Weight Landed (Tons)	-	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-	-
Hook Size	nr. 6	-	-	-	-	-	-
Range of Depths (fm)	-	-	-	-	-	-	-

1) w/c "Adolf Jensen" and Greenlanders'

2) tonnage not known

TABLE 3 LENGTH FREQUENCIES - COD - IC - 1961

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)					Otter Trawl (Research)
	Catch ¹⁾	Landings				HK
CATCHES/LANDINGS	Aug.	Jan.	Apr.	June	July	April
MONTH	U.K. 2)	Germany ³⁾				Norway
COUNTRY	U.K. 2)	Germany ³⁾				Norway
36-38	-	-	-	-	-	4
39-41	15	-	-	-	-	4
42-44	30	-	-	-	-	21
45-47	70	2	1	2	13	60
48-50	76	15	1	7	31	128
51-53	173	27	2	16	63	163
54-56	164	50	2	18	104	124
57-59	146	59	6	16	59	74
60-62	58	119	44	51	61	35
63-65	32	80	76	53	83	57
66-68	35	82	134	103	108	67
69-71	56	83	184	149	80	81
72-74	41	86	176	178	62	57
75-77	44	100	137	152	78	39
78-80	20	96	99	69	97	32
81-83	17	62	54	79	63	21
84-86	11	54	28	43	36	18
87-89	8	39	24	30	28	4
90-92	2	17	21	7	18	7
93-95	-	15	6	12	7	4
96-98	3	6	2	8	7	-
99-101	-	2	1	3	2	-
102-104	-	3	1	3	-	-
105-107	-	2	1	1	-	-
108-110	-	1	-	-	-	-
Total ‰	1001	1000	1000	1000	1000	1000
Serial Numbers	-	2	25,28,29	45	48	-
Number of Samples	2	1	3	1	1	2
Number of Fish Measured	716	538	962	391	348	282
Mean Length (cm)	-	71.6	73.5	73.5	68.9	60.10
Mean Weight (Kg)	-	-	-	-	-	-
Total Weight Landed (Tons)	-	152	540	33	42	-
Estimated Number Landed	-	49065	196838	12253	17832	-
Mesh Size (mm)	-	110	110	110	110	-
Range of Depths (fm)	-	-	-	-	-	-

1) after discard

2) over 1800 tons

3) 500-900 tons

TABLE 3 LENGTH FREQUENCIES - COD - IC - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)
(cont'd.)

GEAR	Bottom Long Line (Research)	Hand Line (Research)	Hand Line & Long Line (Research)	
CATCHES/LANDINGS	HK			
MONTH	August	August	August	August
COUNTRY	Norway	Denmark (Greenland)		
TONNAGE	HK			
27-29	-	-	13	-
30-32	-	-	6	-
33-35	-	-	52	-
36-38	-	-	117	-
39-41	-	2	123	25
42-44	1	18	149	13
45-47	6	69	221	38
48-50	12	122	130	-
51-53	11	107	58	63
54-56	7	131	45	-
57-59	9	84	39	38
60-62	6	38	-	38
63-65	30	38	13	38
66-68	70	73	6	13
69-71	61	87	6	25
72-74	138	49	-	38
75-77	138	53	6	50
78-80	117	42	-	163
81-83	115	27	6	213
84-86	88	22	-	100
87-89	61	24	-	63
90-92	41	7	6	50
93-95	44	7	-	-
96-98	14	-	-	-
99-101	8	-	-	13
102-104	8	-	-	13
105-107	2	-	-	-
108-110	5	-	-	13
111-113	6	-	-	-
114-116	2	-	-	-
Total ‰	1000	1000	996	1007
Serial Numbers	-	9	19	20
Number of Samples	3	-	-	-
Number of Fish Measured	658	450	154	80
Mean Length (cm)	77.69	61.8	45.6	75.2
Mean Weight (Kg)	-	-	-	-
Total Weight Landed (Tons)	-	-	-	-
Estimated Number Landed	-	-	-	-
Hook Size	-	-	-	-
Range of Depths (fm)	-	-	-	-

TABLE 4 LENGTH FREQUENCIES - COD - ID - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)					
CATCHES/LANDINGS	Landings					
MONTH	January		March	April	August	September
COUNTRY	U.K. ¹⁾	Germany	Germany			
TONNAGE	501-900					
39-41	-	-	-	2	-	1
42-44	4	-	-	-	-	2
45-47	34	-	-	22	-	5
48-50	126	1	-	27	23	11
51-53	137	1	26	32	75	30
54-56	105	7	22	33	46	52
57-59	92	31	53	20	57	62
60-62	113	56	59	55	109	77
63-65	69	38	109	82	120	131
66-68	30	42	100	112	110	134
69-71	44	81	169	129	81	82
72-74	26	83	146	185	63	79
75-77	48	140	141	129	56	64
78-80	52	144	64	53	51	62
81-83	32	120	54	48	94	56
84-86	5	109	19	37	41	60
87-89	28	70	19	25	28	32
90-92	27	46	9	2	17	26
93-95	14	13	5	2	18	18
96-98	1	6	1	5	4	4
99-101	13	7	2	-	5	5
102-104	-	1	-	-	-	2
105-107	-	2	1	-	2	5
108-110	-	1	1	-	-	-
111-113	-	1	-	-	-	-
Total ‰	1000	1000	1000	1000	1000	1000
Serial Numbers	-	1	18	31	54	56,58
Number of Samples	1	1	1	1	1	2
Number of Fish Measured	289	516	312	311	337	758
Mean Length (cm)	-	77.7	71.2	70.3	69.6	71.0
Mean Weight (Kg)	-	-	-	-	-	-
Total Weight Landed (Tons)	491	219	54	44	217	400
Estimated Number Landed	233749	50936	19285	17125	82858	140561
Mesh Size (mm)	-	110	110	110	110	110
Range of Depths (fm)	-	-	-	-	-	-

1) after discard

TABLE 4 LENGTH FREQUENCIES - COD - ID - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)
(cont'd)

GEAR	Otter Trawl			
	(Commercial)	(Research)	(NK)	
CATCHES/LANDINGS	NK			
MONTH	May	April	October	November
COUNTRY	Denmark (F)	Norway	Germany	
TONNAGE	955	NK	500-900	
42-44	-	8	-	-
45-47	58	24	1	2
48-50	159	56	1	10
51-53	178	266	4	24
54-56	106	145	16	51
57-59	43	97	43	70
60-62	34	105	54	76
63-65	53	74	124	95
66-68	29	73	169	98
69-71	72	32	98	139
72-74	87	32	62	133
75-77	67	48	105	67
78-80	48	8	84	41
81-83	24	16	77	36
84-86	19	16	59	43
87-89	10	-	39	35
90-92	-	-	27	44
93-95	5	-	21	13
96-98	-	-	8	15
99-101	-	-	8	4
102-104	-	-	-	1
105-107	5	-	-	3
108-110	5	-	-	-
Total ‰	1002	1000	1000	1000
Serial Numbers	-	-	60	64
Number of Samples	1	1	1	1
Number of Fish Measured	208	124	431	468
Mean Length (cm)	-	59.23	73.5	71.4
Mean Weight (Kg)	-	-	-	-
Total Weight Landed (Tons)	-	-	181	85
Estimated Number Landed	-	-	59561	25695
Mesh Size (mm)	-	-	110	110
Range of Depths (fm)	45-50	-	-	-

TABLE 4
(cont'd) LENGTH FREQUENCIES - COD - ID - 1961

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Bottom Long Line (Research)	Long Line (Research)				Hand Line (Research)
CATCHES/LANDINGS	NK					
MONTH	April	April	April	May	June	August
COUNTRY	Norway	Denmark (Greenland)				
TONNAGE	NK	1)				2)
36-38	-	-	-	-	-	3
39-41	1	-	-	9	-	27
42-44	3	4	-	9	-	6
45-47	12	23	21	18	-	9
48-50	29	16	25	45	5	15
51-53	31	12	41	41	9	12
54-56	24	20	21	63	5	48
57-59	20	8	29	32	9	57
60-62	33	-	41	54	5	81
63-65	46	12	29	59	9	96
66-68	46	27	54	32	5	87
69-71	80	70	83	50	32	66
72-74	151	94	95	81	36	69
75-77	131	160	91	140	50	87
78-80	141	176	103	100	104	96
81-83	105	145	128	86	145	96
84-86	62	113	95	81	127	48
87-89	29	70	74	18	113	48
90-92	29	20	25	36	95	24
93-95	6	16	33	5	77	9
96-98	12	16	8	27	59	6
99-101	4	-	4	9	36	-
102-104	1	-	-	5	36	3
105-107	3	-	-	-	14	-
108-110	-	-	-	-	-	3
111-113	-	-	-	-	9	-
114-116	-	-	-	-	9	-
117-119	-	-	-	-	14	-
-	-	-	-	-	-	-
126-128	1	-	-	-	-	-
Total ‰	1000	1002	1000	1000	1003	996
Serial Numbers	-	1	2	3	4	10
Number of Samples	4	-	-	-	-	-
Number of Fish Measured	761	256	242	221	221	332
Mean Length (cm)	73.74	76.3	74.4	71.7	86.1	70.6
Mean Weight (Kg)	-	3.8	3.8	3.4	ca.6.3	-
Total Weight Landed (Tons)	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-
Hook Size	-	-	-	-	-	-
Range of Depths (fm)	-	150	45-90	45-90	65-180	-

- 1) m/c "Adolf Jensen"
2) R/V "Dana"

TABLE 4 LENGTH FREQUENCIES - COD - 1D - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)
(cont'd)

GEAR	Lone Line and Hand Line (Research)					
CATCHES / LANDINGS	NK					
MONTH	January	February	March	April	April	July
COUNTRY	Denmark (Greenland)					
TONNAGE	1)			2)		
27-29	-	-	5	-	-	-
30-32	-	-	-	-	-	-
33-35	-	-	5	-	-	-
36-38	-	12	-	-	-	-
39-41	44	-	-	5	-	-
42-44	55	-	32	25	9	-
45-47	44	36	81	95	43	-
48-50	44	24	135	220	69	14
51-53	11	36	184	155	121	47
54-56	11	36	114	135	60	27
57-59	-	36	108	125	112	34
60-62	55	83	103	90	147	27
63-65	33	24	54	50	216	14
66-68	44	24	32	30	147	20
69-71	66	60	43	30	60	54
72-74	55	71	38	-	-	122
75-77	154	95	22	15	-	182
78-80	143	107	16	10	9	81
81-83	88	119	16	5	-	162
84-86	44	71	5	5	-	81
87-89	22	48	5	5	-	74
90-92	55	36	-	-	9	27
93-95	22	48	-	-	-	-
96-98	-	24	-	-	-	20
99-101	-	-	-	-	-	7
102-104	-	-	-	-	-	7
105-107	-	12	-	-	-	-
108-110	11	-	-	-	-	-
Total ‰	1001	1002	998	1000	1002	1000
Serial Numbers	21	22	23	24	25	26
Number of Samples	-	-	-	-	-	-
Number of Fish Measured	91	84	185	200	116	148
Mean Length (cm)	70.6	73.8	56.8	55.2	60.1	76.0
Mean Weight (Kg)	3.9	6.4	1.4	1.7	-	-
Total Weight Landed (Tons)	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-
Hook Size	-	-	-	-	-	-
Range of Depths (fm)	-	-	-	-	-	-

1) m/c "Adolf Jensen"

2) m/c "Adolf Jensen" and m/b "Torneq"

TABLE 4
(cont'd)

LENGTH FREQUENCIES - COD - ID - 1961

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Hand Line & Long Line (Research)		Hand Line, Long Line & Greenlanders' (Research & Commercial)	
CATCHES/LANDINGS	NK			
MONTH	July	July	August	September
COUNTRY	Denmark (Greenland)			
TONNAGE	1)		2)	
36-38	-	-	11	6
39-41	-	10	22	6
42-44	-	20	33	19
45-47	21	45	49	37
48-50	29	104	104	37
51-53	29	174	165	56
54-56	36	109	187	154
57-59	14	85	104	179
60-62	-	90	88	148
63-65	14	70	38	80
66-68	14	60	44	49
69-71	43	40	33	19
72-74	64	25	22	19
75-77	57	35	27	19
78-80	107	30	33	37
81-83	143	45	22	62
84-86	121	15	5	25
87-89	71	10	5	31
90-92	79	15	-	6
93-95	93	5	5	-
96-98	36	15	-	-
99-101	7	-	-	6
102-104	7	-	-	-
105-107	7	-	-	-
108-110	7	-	-	-
111-113	-	-	-	-
114-116	-	-	-	6
Total ‰	999	1002	997	1001
Serial Numbers	5	6	27	28
Number of Samples	-	-	-	-
Number of Fish Measured	140	201	182	162
Mean Length (cm)	79.6	61.0	57.8	62.4
Mean Weight (Kg)	-	-	2.2	-
Total Weight Landed (Tons)	-	-	-	-
Estimated Number Landed	-	-	-	-
Hook Size	-	-	-	-
Range of Depths (fm)	40-70	-	-	-

1) w/c "Adolf Jensen" and R/V "Dana"

2) w/b "Tornaq", w/c "Adolf Jensen" and Greenlanders'

TABLE 5 LENGTH FREQUENCIES - COD - IE - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl				Bottom Long Line
	(Commercial)		(Research)	NK	(Research)
CATCHES/LANDINGS	Landings ¹⁾		NK	NK	NK
MONTH	September	October	May	June	April
COUNTRY	U.K.		Norway	Germany	Norway
TONNAGE	501-900		NK	500-900	NK
33-35	-	1	-	-	-
36-38	-	10	-	-	-
39-41	4	51	3	-	-
42-44	4	127	8	-	-
45-47	28	92	10	-	-
48-50	18	48	8	2	-
51-53	22	36	50	12	5
54-56	45	56	58	31	-
57-59	144	83	82	42	5
60-62	168	166	92	47	15
63-65	199	101	39	58	30
66-68	179	105	50	62	46
69-71	97	44	92	114	102
72-74	22	30	113	101	117
75-77	11	19	131	145	157
78-80	11	8	84	99	173
81-83	14	8	71	120	127
84-86	21	6	45	67	66
87-89	11	3	31	47	71
90-92	5	5	16	32	61
93-95	-	1	8	11	5
96-98	-	-	3	6	5
99-101	-	-	3	3	15
102-104	-	-	-	1	-
105-107	-	-	3	-	-
Total ‰	1003	1000	1000	1000	1000
Serial Numbers	-	-	-	43,44	-
Number of Samples	1	4	2	2	2
Number of Fish Measured	218	920	380	902	197
Mean Length (cm)	-	-	70.23	74.79	78.06
Mean Weight (kg)	-	-	-	-	-
Total Weight Landed (tons)	125	712	-	262	-
Estimated Number Landed	60406	460740	-	91744	-
Mesh or Hook Size	-	-	-	110	-
Range of Depths (fm)	-	-	-	-	-

1) after discard

TABLE 6 LENGTH FREQUENCIES - COD - LF - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)				
CATCHES/LANDINGS	Landings ¹⁾				NK
MONTH	January	October	November	December	May
COUNTRY	United Kingdom				Denmark (F)
TONNAGE	501-900				955
39-41	1	-	16	3	-
42-44	13	10	42	4	-
45-47	31	41	39	25	43
48-50	43	77	81	12	104
51-53	57	145	128	75	159
54-56	136	100	144	73	211
57-59	66	200	76	101	133
60-62	35	197	152	106	67
63-65	33	107	95	85	41
66-68	80	41	44	52	21
69-71	95	30	74	53	36
72-74	125	3	29	40	38
75-77	101	14	20	92	44
78-80	88	10	16	102	34
81-83	44	13	19	75	32
84-86	29	3	10	26	14
87-89	14	2	7	26	12
90-92	7	5	3	17	3
93-95	-	-	5	-	2
96-98	-	-	-	13	-
99-101	-	-	-	17	-
102-104	-	-	-	-	-
105-107	-	-	-	4	-
Total ‰	998	998	1000	1001	994
Serial Numbers	-	-	-	-	-
Number of Samples	2	1	1	1	5
Number of Fish Measured	555	211	258	224	1142
Mean Length (cm)	-	-	-	-	-
Mean Weight (Kg)	-	-	-	-	-
Total Weight Landed (Tons)	351	132	278	478	-
Estimated Number Landed	149617	88143	164376	169672	-
Mesh or Hook Size	-	-	-	-	-
Range of Depths (fm)	-	-	-	-	75-90

1) after discard

TABLE 6 LENGTH FREQUENCIES - COD - IF - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)
(cont'd)

GEAR	Otter Trawl (NK)					
CATCHES/LANDINGS	NK					
MONTH	February	March	May	May	July	November
COUNTRY	Germany					
TONNAGE	500-900					
45-47	-	-	2	7	2	-
48-50	-	2	3	20	46	-
51-53	5	1	17	80	168	22
54-56	6	9	21	210	215	152
57-59	9	7	35	181	164	200
60-62	8	12	38	107	97	197
63-65	17	24	52	41	39	167
66-68	39	67	87	35	36	87
69-71	87	88	87	51	53	48
72-74	100	132	149	67	65	24
75-77	136	160	150	65	53	26
78-80	172	162	127	54	32	25
81-83	153	126	114	51	15	22
84-86	103	79	41	15	10	16
87-89	72	78	51	8	3	9
90-92	46	31	15	4	1	4
93-95	21	17	4	2	1	1
96-98	13	2	4	1	-	-
99-101	6	1	2	-	-	-
102-104	1	2	1	1	-	-
105-107	2	-	-	-	-	-
108-110	3	-	-	-	-	-
111-113	1	-	-	-	-	-
Total ‰	1000	1000	1000	1000	1000	1000
Serial Numbers	8,9,12	14,15,21	33,34	40	46,47	65
Number of Samples	3	3	2	1	2	1
Number of Fish Measured	1266	1032	844	530	1285	420
Mean Length (cm)	79.5	77.8	74.4	64.1	61.3	63.6
Mean Weight (Kg)	-	-	-	-	-	-
Total Weight Landed (Tons)	294	272	160	73	329	169
Estimated Number Landed	73224	75729	56835	39836	200689	84609
Mesh or Hook Size	-	-	-	-	-	-
Range of Depths (fm)	-	-	-	-	-	-

TABLE 6 LENGTH FREQUENCIES - COD - LF - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)
(cont' d)

GEAR	Bottom Long Line (Research)		Hand Line (Res. & Comm.)	Greenlanders' (Commercial)	Miscellaneous ¹⁾ (Res. & Comm.)	
CATCHES/LANDINGS	NK					
MONTH	April	May	August	August	June	July
COUNTRY	Norway		Denmark (Greenland)			
TONNAGE	NK		2)	NK		
36-38	-	1	-	-	-	-
39-41	-	-	-	-	-	-
42-44	-	-	6	-	5	-
45-47	6	-	3	10	5	10
48-50	13	1	39	55	10	51
51-53	13	8	110	85	160	86
54-56	19	3	217	115	210	237
57-59	31	13	194	215	190	258
60-62	44	18	115	185	185	212
63-65	32	27	99	135	115	101
66-68	82	50	34	50	35	20
69-71	69	84	28	40	50	-
72-74	94	110	70	35	15	5
75-77	214	142	37	25	10	5
78-80	69	170	25	35	-	-
81-83	94	131	11	10	5	-
84-86	69	101	6	-	-	-
87-89	63	75	3	5	-	-
90-92	57	32	3	-	-	-
93-95	19	22	-	-	5	5
96-98	6	8	-	-	-	10
99-101	-	2	-	-	-	-
102-104	6	1	-	-	-	-
105-107	-	1	-	-	-	-
Total ‰	1000	1000	1000	1000	1000	1000
Serial Numbers	-	-	11	31	29	30
Number of Samples	1	5	-	-	-	-
Number of Fish Measured	159	1182	355	200	200	198
Mean Length (cm)	76.31	77.46	60.7	61.0	59.1	58.4
Mean Weight (Kg)	-	-	-	ca. 2.2	1.9	1.6
Total Weight Landed (Tons)	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-
Mesh or Hook Size	-	-	-	-	-	-
Range of Depths (fm)	-	-	-	-	-	-

1) Hand Line: Long Line (m/b "Tornaq", m/c "Adolf Jensen") and Greenlanders'

2) m/c "Sujumt" and Greenlanders'

TABLE 7 LENGTH FREQUENCIES - COD - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)

AREA	East Greenland (Dohrn Bank)						
GEAR	Otter Trawl (Commercial)						
CATCHES/LANDINGS	Landings						
MONTH	January	April	May	July	August	October	November
COUNTRY	Germany						
TOWNAGE	500-900						
39-41	-	-	3	-	-	-	-
42-44	-	2	7	-	-	-	-
45-47	-	2	11	-	-	-	-
48-50	-	3	15	-	-	2	5
51-53	-	4	26	2	-	6	9
54-56	9	8	34	5	-	2	11
57-59	5	11	62	14	5	12	18
60-62	9	11	46	10	3	21	22
63-65	11	37	58	13	7	8	26
66-68	25	47	52	7	18	12	27
69-71	37	54	64	28	25	28	50
72-74	124	122	104	67	57	47	85
75-77	108	122	88	124	60	95	106
78-80	130	145	120	104	80	103	120
81-83	115	130	100	99	113	131	146
84-86	135	114	86	166	120	128	128
87-89	113	89	60	126	84	122	103
90-92	83	28	32	113	93	117	72
93-95	40	36	16	55	82	74	35
96-98	15	16	7	23	118	41	20
99-101	23	13	7	23	41	23	7
102-104	16	6	2	7	39	17	7
105-107	1	-	-	7	19	10	3
108-110	-	-	-	7	23	1	-
111-113	1	-	-	-	5	-	-
114-116	-	-	-	-	5	-	-
117-119	-	-	-	-	3	-	-
Total ‰	1000	1000	1000	1000	1000	1000	1000
Serial Numbers	4	30	35	49	50,51	61	63
Number of Samples	1	1	1	1	2	1	1
Number of Fish Measured	389	477	475	585	668	446	483
Mean Length (cm)	82.1	78.7	73.7	83.6	88.0	84.1	80.3
Mean Weight (Kg)	-	-	-	-	-	-	-
Total Weight Landed (Tons)	76	160	127	46	69	99	79
Estimated Number Landed	17377	46092	36622	10815	13954	21767	19735
Mesh or Hook Size (mm)	110	110	110	110	110	110	110
Range of Depths (fm)	-	-	-	-	-	-	-

TABLE 7
(cont'd)

LENGTH FREQUENCIES - COD - 1961

(FREQUENCIES IN ‰ - 3 CM GROUPS)

AREA	East Greenland (Angmagssalik)	South East Greenland		
		Otter Trawl		
GEAR	(Research)	(Commercial)		
CATCHES/LANDINGS	Catches	Landings		
MONTH	July	March	April	June
COUNTRY		Germany		
TONNAGE	900-1800	500-900		
54-56	-	1	-	-
57-59	5	4	-	3
60-62	-	4	14	6
63-65	5	15	19	22
66-68	10	44	36	22
69-71	39	92	79	55
72-74	59	115	137	83
75-77	54	158	195	116
78-80	143	164	156	160
81-83	182	136	154	142
84-86	202	105	67	108
87-89	148	66	72	94
90-92	79	43	41	59
93-95	25	29	13	58
96-98	29	10	11	29
99-101	15	6	4	19
102-104	5	3	-	12
105-107	-	3	-	2
108-110	-	2	-	2
111-113	-	-	-	1
114-116	-	-	-	-
117-119	-	-	-	3
> 119	-	-	2	4
Total ‰	1000	1000	1000	1000
Serial Numbers	A	17,19,23	27	41
Number of Samples	1	3	1	1
Number of Fish Measured	203	1191	404	782
Mean Length (cm)	83.2	79.7	79.0	82.6
Mean Weight (Kg)	-	-	-	-
Total Weight Landed (Tons)	-	343	147	41
Estimated Number Landed	-	92007	42795	10634
Mesh Size (mm)	110	110	110	110
Range of Depths (fm)	-	-	-	-

TABLE 8 LENGTH FREQUENCIES - COD - 2H - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)
CATCHES/LANDINGS	Catches 1)
MONTH	July
COUNTRY	United Kingdom
TONNAGE	Over 1800
36-38	6
39-41	15
42-44	18
45-47	62
48-50	141
51-53	229
54-56	204
57-59	133
60-62	84
63-65	59
66-68	33
69-71	10
72-74	1
75-77	3
78-80	1
81-83	1
Total ‰	1000
Serial Numbers	-
Number of Samples	3
Number of Fish Measured	666
Mean Length (cm)	-
Mean Weight (Kg)	-
Total Weight Landed (Tons)	-
Estimated Number Landed	-
Mesh or Hook Size	-
Range of Depths (fm)	-

1) after discard

TABLE 9 LENGTH FREQUENCIES - COD - 2J - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)					
CATCHES/LANDINGS	Catches					
MONTH	May		September		November	
COUNTRY	Portugal					
TONNAGE	1264					
MORNING/EVENING	Morning	Evening	Morning	Evening	Morning	Evening
33-35	-	-	-	3	-	-
36-38	10	5	-	-	-	-
39-41	22	10	12	24	-	-
42-44	29	36	21	45	4	-
45-47	41	60	87	89	17	28
48-50	74	56	118	86	71	97
51-53	90	87	109	134	92	90
54-56	117	116	122	151	154	146
57-59	124	140	175	168	167	243
60-62	139	140	101	148	146	56
63-65	121	133	111	72	171	153
66-68	106	92	68	34	138	132
69-71	50	48	43	17	17	21
72-74	33	33	10	17	17	21
75-77	17	21	10	-	8	14
78-80	12	9	-	7	-	-
81-83	6	5	8	3	-	-
84-86	4	5	4	-	-	-
87-89	1	2	-	-	-	-
90-92	1	2	-	-	-	-
93-95	1	-	-	-	-	-
96-98	1	-	-	-	-	-
99-101	2	-	-	-	-	-
Total ‰	1001	1000	999	998	1002	1001
Serial Numbers	3-5-8-11		23-28		39	
Number of Samples	#		2		1	
Number of Fish Measured	975	585	485	291	240	144
Mean Length (cm)	59.1	59.1	57.2	55.6	59.4	58.9
Mean Weight (Kg)	-	-	-	-	-	-
Total Weight Landed (Tons)	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-
Mesh Size (mm)	114		114		114	
Range of Depths (fm)	75-145	150	75-130		145	

TABLE 9 LENGTH FREQUENCIES - COD - 2J - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)
(cont'd)

GEAR	Otter Trawl (Commercial)					
	Catches ¹⁾	Catches ²⁾				
CATCHES/LANDINGS	February	May	June	September	October	November
MONTH	U.K.	Spain				
COUNTRY	over 1800	1360				
TONNAGE						
30-32	-	7	12	14	2	-
33-35	-	6	7	9	6	-
36-38	-	18	50	25	21	-
39-41	-	29	27	29	49	-
42-44	10	40	39	38	79	15
45-47	40	63	63	55	106	25
48-50	115	101	136	58	92	40
51-53	93	120	145	64	103	20
54-56	101	113	180	116	105	91
57-59	84	133	130	124	98	177
60-62	150	102	75	142	109	152
63-65	148	104	62	127	92	152
66-68	113	79	61	98	58	106
69-71	72	36	9	65	41	86
72-74	17	23	4	24	21	51
75-77	19	12	-	7	11	45
78-80	13	2	-	2	3	40
81-83	6	4	-	1	2	-
84-86	4	4	-	-	1	-
87-89	9	-	-	-	-	-
90-92	4	-	-	1	-	-
93-95	-	4	-	-	-	-
96-98	2	-	-	-	-	-
-	-	-	-	-	-	-
105-107	-	-	-	1	-	-
Total ‰	1000	1000	1000	1000	999	1000
Serial Numbers	-	-	-	-	-	-
Number of Samples	1	6	2	9	6	1
Number of Fish Measured	592	1894	560	2434	1574	198
Mean Length (cm)	-	-	-	-	-	-
Mean Weight (Kg)	-	-	-	-	-	-
Total Weight Landed (Tons)	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-
Mesh Size (mm) ³⁾	-	160	160	160	160	160
Range of Depths (fm)	-	115-220	125	90-160	90-120	165

- 1) after discard
- 2) before discard
- 3) Mesh Size - new, dry measure

TABLE 9 LENGTH FREQUENCIES - COD - 2J - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)
(cont'd)

GEAR	Otter Trawl (NK)				
CATCHES/LANDINGS	Catches				
MONTH	January	February	March	April	May
COUNTRY	U. S. S. E.				
TONNAGE	1800				
24-26	-	-	-	-	3
27-29	-	-	-	3	45
30-32	7	-	-	13	111
33-35	10	4	1	18	92
36-38	33	7	-	20	44
39-41	3	17	2	15	5
42-44	66	32	13	77	49
45-47	106	69	42	108	70
48-50	86	83	77	154	108
51-53	157	93	122	167	132
54-56	110	121	154	120	143
57-59	150	119	137	109	74
60-62	93	144	154	76	51
63-65	93	112	111	52	35
66-68	33	82	82	30	31
69-71	13	62	52	20	4
72-74	20	21	28	11	3
75-77	10	20	9	4	-
78-80	7	5	8	2	-
81-83	-	1	3	-	-
84-86	-	3	3	-	-
87-89	-	1	1	-	-
90-92	-	-	-	-	-
93-95	3	1	-	-	-
96-98	-	-	-	-	-
99-101	-	-	-	-	-
102-104	-	1	-	-	-
105-107	-	1	-	-	-
108-110	-	1	-	-	-
Total ‰	1000	1000	999	999	1000
Serial Numbers	-	-	-	-	-
Number of Samples	-	-	-	-	-
Number of Fish Measured	301	3203	1741	8510	1322
Mean Length (cm)	56.64	57.97	58.78	52.57	47.26
Mean Weight (kg)	-	-	-	-	-
Total Weight Landed (tons)	9341	26161	12353	7369	20499
Estimated Number Landed	-	-	-	-	-
Mesh or Hook Size	-	-	-	-	-
Range of Depths (fm)	-	175-180	170-175	165	-

TABLE 9 LENGTH FREQUENCIES - COD - 2J - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)
(cont'd)

GEAR	Otter Trawl (NK)			
	Catches			
CATCHES/LANDINGS	July	August	September	November
MONTH	U. S. S. R.			
COUNTRY	1800			
TONNAGE				
15-17	-	-	1	-
18-20	-	-	6	-
21-23	-	2	19	-
24-26	1	5	21	1
27-29	8	7	36	-
30-32	17	53	65	11
33-35	27	107	76	21
36-38	46	94	77	89
39-41	47	119	53	81
42-44	80	70	83	98
45-47	108	118	57	116
48-50	132	94	62	143
51-53	127	60	73	82
54-56	158	93	71	102
57-59	97	52	94	82
60-62	84	48	66	74
63-65	29	31	57	44
66-68	21	16	39	27
69-71	8	13	17	18
72-74	1	7	15	4
75-77	5	5	6	2
78-80	2	-	3	4
81-83	-	2	1	1
84-86	-	2	1	-
87-89	-	-	1	-
-	-	-	-	-
96-98	-	2	-	-
Total ‰	998	1000	1000	1000
Serial Numbers	-	-	-	-
Number of Samples	-	-	-	-
Number of Fish Measured	1268	598	4503	1126
Mean Length (cm)	50.89	46.42	47.53	56.05
Mean Weight (kg)	-	-	-	-
Total Weight Landed (tons)	-	28	-	-
Estimated Number Landed	-	-	-	-
Mesh or Hook Size	-	-	-	-
Range of Depths (fm)	150-155	-	-	-

TABLE 10 LENGTH FREQUENCIES - COD - K - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)					
CATCHES/LANDINGS	Catches Before Discarding					
MONTH	June		July	August	August	August
COUNTRY	Spain	Portugal	Portugal			
TONNAGE	1360	1264	1264			
39-41	22	-	20	2	4	13
42-44	4	10	30	13	17	20
45-47	29	40	30	46	59	40
48-50	84	61	35	110	97	40
51-53	75	71	60	104	104	80
54-56	124	152	101	106	118	127
57-59	170	141	131	135	156	104
60-62	174	273	186	117	146	144
63-65	128	121	216	177	104	144
66-68	77	30	80	100	111	171
69-71	55	40	55	52	59	64
72-74	15	30	40	23	17	33
75-77	26	10	5	6	7	10
78-80	9	10	-	8	-	7
81-83	-	-	-	-	-	-
84-86	-	-	10	-	-	-
87-89	9	-	-	-	-	-
90-92	-	-	-	-	-	-
93-95	-	-	-	-	-	3
-	-	-	-	-	-	-
105-107	-	10	-	-	-	-
Total ‰	1001	999	999	999	999	1000
Serial Numbers	-	30	32-33	34-37	34-37	36-38-39
Number of Samples	2	1	2	2	2	3
Number of Fish Measured	453	99	199	480	288	299
Mean Length (cm)	-	59.6	60.4	58.2	58.3	60.3
Mean Weight (kg)	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-
Mesh Size (mm)	160 ¹⁾	114	114	114	114	114
Range of Depths (fm)	120-165	120	150	135	135	125-135

1) Mesh Size - new, dry measure

TABLE 10 LENGTH FREQUENCIES - COD - 3K - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)
(cont'd)

GEAR	Otter Trawl (Commercial)					
CATCHES/LANDINGS	Catches Before Discarding					
MONTH	August	October	November	November	November	November
COUNTRY	Portugal					Spain
TONNAGE	1264					1360
MORNING/EVENING			Morning		Evening	
36-38	5	-	-	-	-	-
39-41	-	-	24	19	10	11
42-44	11	-	66	38	45	11
45-47	63	10	84	73	80	59
48-50	23	40	102	121	122	32
51-53	42	30	88	123	184	11
54-56	109	80	148	198	160	81
57-59	146	60	128	175	167	76
60-62	137	160	118	104	69	178
63-65	116	150	104	83	83	146
66-68	118	200	62	40	59	141
69-71	116	130	26	15	14	92
72-74	60	70	22	8	-	70
75-77	35	30	6	4	4	38
78-80	11	10	8	-	-	32
81-83	7	10	10	-	4	-
84-86	-	10	2	-	-	22
87-89	-	-	2	-	-	-
-	-	-	-	-	-	-
102-104	-	10	-	-	-	-
Total ‰	999	1000	1000	1001	1001	1000
Serial Numbers	-	43	44-48- 50-51-54	47-52		-
Number of Samples	1	1	5	2		1
Number of Fish Measured	431	100	500	480	288	185
Mean Length (cm)	-	64.6	56.5	55.3	55.7	-
Mean Weight (kg)	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	-	-	-	-
Estimated Number Landed	- ¹⁾	-	-	-	-	- ¹⁾
Mesh Size (mm)	160 ¹⁾	114	114	114	114	160 ¹⁾
Range of Depths (fm)	130	95	90-175	145		120

1) Mesh Size - new, dry measure

TABLE 10
(CONT'D)

LENGTH FREQUENCIES - COD - 9K - 1961

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	OTTER TRAWL					
	(COMMERCIAL)	(NK)				
CATCHES/LANDINGS	CATCHES ¹⁾	CATCHES				
MONTH	JULY	JANUARY	FEBRUARY	MARCH	JULY	OCTOBER
COUNTRY	U. K.	U. S. S. R.				
TONNAGE	OVER 1800	1800				
18-20	-	-	-	-	7	9
24-26	-	-	-	-	16	-
27-29	-	-	-	-	36	6
30-32	-	2	-	7	91	12
33-35	-	5	9	-	99	25
36-38	-	9	17	19	147	71
39-41	18	8	15	7	116	31
42-44	52	14	46	13	84	99
45-47	75	44	74	56	120	84
48-50	56	42	109	70	87	106
51-53	52	94	84	39	79	116
54-56	91	90	66	39	49	84
57-59	110	118	76	45	32	122
60-62	126	172	90	45	29	75
63-65	138	126	64	45	16	68
66-68	141	95	62	31	6	34
69-71	69	49	55	52	2	6
72-74	30	50	49	71	-	28
75-77	19	35	51	91	-	-
78-80	7	15	45	136	-	6
81-83	7	15	19	52	-	9
84-86	4	7	24	52	-	9
87-89	-	3	15	19	-	3
90-92	1	4	17	39	2	3
93-95	-	4	6	19	-	6
96-98	-	-	6	19	-	-
99-101	-	1	6	7	-	9
102-104	-	1	2	-	-	9
105-107	-	-	-	19	-	-
108-110	-	-	1	-	-	-
111-113	-	1	1	7	-	-
114-116	-	1	1	-	-	-
117-119	-	-	-	-	-	-
120-122	-	-	1	7	-	-
>122	-	1	1	-	-	-
TOTAL ‰	996	1000	1000	1000	1000	1000
SERIAL NUMBERS	-	-	-	-	-	-
NUMBER OF SAMPLES	2	-	-	-	-	-
NUMBER OF FISH MEASURED	616	1687	594	154	440	322
MEAN LENGTH (CM)	-	61.03	61.72	70.00	42.46	52.72
MEAN WEIGHT (KG)	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	170	3897	271	-	44
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH SIZE (MM)	-	-	-	-	-	-
RANGE OF DEPTHS (FM)	-	165	-	-	-	-

1) AFTER DISCARD

TABLE 10 LENGTH FREQUENCIES - COD - K - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)
(cont'd)

GEAR	Line Trawl	Trap	Jigger
	(Commercial)		
CATCHES/LANDINGS	Landings Before Discard		
MONTH	July		
COUNTRY	Canada (Newfoundland)		
TONNAGE	Small Inshore Boats Under 25 Tons		
30-32	-	1	-
33-35	-	10	1
36-38	-	38	9
39-41	-	79	14
42-44	-	106	27
45-47	23	102	70
48-50	23	96	92
51-53	39	96	92
54-56	46	96	113
57-59	75	93	123
60-62	114	85	136
63-65	125	68	118
66-68	154	49	83
69-71	107	36	66
72-74	97	21	28
75-77	57	13	13
78-80	47	6	5
81-83	36	4	7
84-86	29	2	2
87-89	5	1	-
90-92	5	-	-
93-95	7	-	1
96-98	1	-	-
99-101	3	-	-
102-104	5	-	-
105-107	-	-	-
108-110	4	-	-
-	-	-	-
117-119	1	-	-
Total ‰	1003	1002	1000
Serial Numbers	-	-	-
Number of Samples	2	53	6
Number of Fish Measured	508	22530	2082
Mean Length (cm)	67.23	53.40	58.31
Mean Weight (kg)	2.92	1.72	1.97
Total Weight Landed (tons)	-	-	-
Estimated Number Landed	-	-	-
Mesh or Hook Size	no.14-15	4 inches ¹⁾	no. 5
Range of Depths (fm)	35-40 125-140	7-25	15-26

1) Cotton

TABLE 11 LENGTH FREQUENCIES - COD - 3L - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)					
CATCHES/LANDINGS	Catches ¹⁾			Catches		
MONTH	March	April	April	May		
COUNTRY	Spain			Portugal		
TONNAGE	1360			1264		
MORNING/EVENING			Morning	Evening	Morning	Evening
39-41	54	20	36	20	12	33
42-44	25	20	32	40	52	40
45-47	137	25	64	67	64	67
48-50	129	35	48	93	120	147
51-53	75	51	76	60	96	47
54-56	83	81	84	113	92	133
57-59	174	111	96	120	152	127
60-62	99	101	192	160	140	127
63-65	149	136	120	153	152	167
66-68	21	86	80	67	64	87
69-71	21	66	36	27	24	20
72-74	21	71	52	47	20	7
75-77	-	46	36	20	4	-
78-80	-	56	8	-	4	-
81-83	-	5	12	-	4	-
84-86	-	40	4	7	-	-
87-89	-	-	12	-	-	-
90-92	-	10	4	-	-	-
93-95	12	15	-	-	-	-
96-98	-	10	8	-	-	-
99-101	-	-	-	7	-	-
102-104	-	-	-	-	-	-
105-107	-	5	-	-	-	-
---	-	-	-	-	-	-
114-116	-	5	-	-	-	-
117-119	-	5	-	-	-	-
Total ‰	1000	1000	1000	1001	1000	1002
Serial Numbers	-	21-22		23		25
Number of Samples	1	2		1		1
Number of Fish Measured	241	198	250	150	250	150
Mean Length (cm)	-	66.6	60.2	58.6	57.1	56.5
Mean Weight (kg)	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-
Mesh Size (mm)	160 ²⁾	114	114	114	114	114
Range of Depths (fm)	100	65-80		60		160

1) before discarding

2) Mesh Size - new, dry measure

TABLE 11 LENGTH FREQUENCIES - COD - 3L - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)
(cont'd)

GEAR	Otter Trawl (Commercial)			
	Catches		Catches ²⁾	
CATCHES/LANDINGS			May	August
MONTH	May		May	August
COUNTRY	Portugal		Spain	
TONNAGE	1264		1360	
MORNING/EVENING	Morning	Evening		
33-35	-	-	-	5
36-38	-	-	-	6
39-41	13	7	7	21
42-44	57	33	13	36
45-47	80	73	33	44
48-50	70	73	30	47
51-53	40	53	67	54
54-56	67	100	110	70
57-59	203	133	173	81
60-62	153	153	127	104
63-65	137	147	137	107
66-68	70	53	100	92
69-71	27	73	60	74
72-74	23	40	47	70
75-77	33	40	37	72
78-80	7	20	23	39
81-83	3	-	27	32
84-86	3	-	-	17
87-89	10	-	3	8
90-92	-	-	-	6
93-95	3	-	3	6
96-98	-	-	-	2
99-101	-	-	-	4
102-104	-	-	-	2
105-107	-	-	-	1
108-110	-	-	3	-
Total ‰	999	998	1000	1000
Serial Numbers	27		24-28-29	-
Number of Samples	1		3	10
Number of Fish Measured	300	150	300	2615
Mean Length (cm)	57.2	59.7	61.5	-
Mean Weight (kg)	-	-	-	-
Total Weight Landed (tons)	-	-	-	-
Estimated Number Landed	-	-	-	-
Mesh Size (mm)	114	114	114	160 ¹⁾
Range of Depths (fm)	125	125	134-160	150
				135-160

1) Mesh Size - new, dry measure

2) BEFORE DISCARDING

TABLE 11 LENGTH FREQUENCIES - COD - 3L - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)
(cont'd)

GEAR	Otter Trawl (Commercial)					
	Catches Before Discard				Landings	
CATCHES/LANDINGS	July	August	September	October	June	September
MONTH	United Kingdom				Canada (Nfld.)	
COUNTRY	over 1800				151-500	
TONNAGE						
33-35	-	-	4	2	-	-
36-38	1	-	4	3	-	-
39-41	18	1	21	6	1	2
42-44	45	26	37	29	6	15
45-47	57	42	64	44	27	40
48-50	70	75	60	61	61	60
51-53	88	88	50	69	94	89
54-56	100	62	57	73	88	100
57-59	93	48	77	67	134	138
60-62	131	71	119	86	119	119
63-65	120	90	123	140	105	128
66-68	124	102	118	122	95	87
69-71	46	122	103	87	51	61
72-74	31	66	53	66	53	36
75-77	24	62	44	40	36	51
78-80	12	41	32	29	40	26
81-83	13	31	10	29	17	18
84-86	10	22	10	9	13	13
87-89	9	12	10	14	16	9
90-92	1	24	1	10	6	6
93-95	3	5	1	6	6	2
96-98	3	6	2	9	8	2
99-101	2	4	1	1	14	-
102-104	-	-	-	-	2	-
105-107	-	-	-	-	2	-
108-110	-	-	-	-	2	-
111-113	-	-	-	-	2	-
114-116	-	-	-	-	4	-
Total ‰	1001	1000	1001	1002	1002	1002
Serial Numbers	-	-	-	-	-	-
Number of Samples	6	6	8	8	2	5
Number of Fish Measured	1703	1335	2096	2306	654	1581
Mean Length (cm)	-	-	-	-	68.83	61.94
Mean Weight (kg)	-	-	-	-	2.56	2.32
Total Weight Landed (tons)	-	-	-	-	784	779
Estimated Number Landed	-	-	-	-	306548	336559
Mesh Size (inches) ¹⁾	-	-	-	-	L-M&N	L-M,N&S
Range of Depths (fm)	-	-	-	-	38-68	22-35

1) L = Large
M = Manila
N = Nylon
S = Sisal
(Mesh Sizes vary from 3 7/8 to 4 3/4 inches)

TABLE 11 LENGTH FREQUENCIES - COD - 3L - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)
(cont'd)

GEAR	Long Line (Commercial)			Hand Line (Commercial)	Cod Net (Commercial)	
CATCHES/LANDINGS	Landings			Landings ¹⁾		
MONTH	July	August	September	July	July	August
COUNTRY	Canada (Newfoundland)					
TONNAGE	0-50			under 25		
36-38	-	1	-	-	-	-
39-41	-	3	8	-	-	-
42-44	1	12	32	16	-	2
45-47	7	19	73	71	-	4
48-50	10	23	80	84	-	5
51-53	15	29	86	128	-	7
54-56	41	40	91	109	1	11
57-59	53	58	92	109	1	13
60-62	87	79	114	118	5	18
63-65	126	76	113	91	7	16
66-68	124	86	94	97	44	18
69-71	144	79	80	40	75	15
72-74	84	82	44	59	98	30
75-77	95	72	31	25	138	37
78-80	58	65	15	15	125	77
81-83	37	61	16	3	147	92
84-86	29	50	10	-	113	128
87-89	24	41	5	7	75	111
90-92	11	39	6	5	51	114
93-95	12	29	1	3	54	93
96-98	20	22	1	-	21	67
99-101	5	14	2	8	16	59
102-104	8	9	2	-	7	30
105-107	4	3	3	4	9	23
108-110	2	3	1	-	2	13
111-113	2	3	1	5	2	9
114-116	-	2	1	-	5	5
117-119	-	1	-	-	3	3
120-122	-	-	-	4	-	1
123-125	-	-	-	-	-	2
126-128	1	-	-	-	1	-
Total ‰	1000	1001	1002	1001	1000	1003
Serial Numbers	-	-	-	-	-	-
Number of Samples	9	6	6	3	4	6
Number of Fish Measured	1140	5001	1030	250	658	2339
Mean Length (cm)	70.65	72.19	60.83	60.57	81.37	86.42
Mean Weight (kg)	3.20	3.86	2.18	2.24	5.14	5.96
Total Weight Landed (tons)	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-
Mesh or Hook Size	no.17	no.17	no.17	no.3020 no.3021	7-8 inches	7-8 inches
Range of Depths (fm)	115-140	9-24	10-50	8-10	9-14	10-16

1) before discard

TABLE 11 LENGTH FREQUENCIES - COD - 3L - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)
(cont'd)

GEAR	Line Trawl	Trap			Jigger
		(Commercial)			
CATCHES/LANDINGS	Landings Before Discard				
MONTH	September	June	July	August	July
COUNTRY	Canada (Newfoundland)				
TONNAGE	under 25				
33-35	-	2	1	-	-
36-38	8	33	8	1	1
39-41	38	90	33	55	13
42-44	65	139	68	96	39
45-47	98	149	96	148	112
48-50	89	143	102	116	104
51-53	84	107	101	108	130
54-56	77	99	121	84	110
57-59	78	92	116	105	94
60-62	90	66	106	96	107
63-65	88	31	83	66	108
66-68	82	26	56	48	62
69-71	57	6	36	29	38
72-74	30	10	25	13	22
75-77	30	4	21	5	27
78-80	24	1	10	13	17
81-83	16	1	5	7	8
84-86	13	1	4	-	2
87-89	9	-	4	-	1
90-92	6	1	3	4	3
93-95	6	1	1	4	-
96-98	3	-	1	1	2
99-101	2	-	-	-	-
102-104	3	-	-	-	-
105-107	3	-	-	-	-
108-110	2	-	-	-	-
—	-	-	-	-	-
129-131	1	-	-	-	-
Total ‰	1002	1002	1001	999	1000
Serial Numbers	-	-	-	-	-
Number of Samples	9	8	44	4	6
Number of Fish Measured	1020	1358	6523	786	623
Mean Length (cm)	59.21	50.55	56.43	54.28	57.37
Mean Weight (kg)	2.15	1.27	1.81	1.67	1.84
Total Weight Landed (tons)	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-
Mesh or Hook Size	no.14-15	4-C ¹⁾	4-C ¹⁾	4-C ¹⁾	no.5
Range of Depths (fm)	25-50	10-14.5	8-18	12.5-14	7-40

1) C - Cotton
Mesh Size - inches

TABLE 12 LENGTH FREQUENCIES - COD - 34 - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl					
	(Commercial)			(NK)		
CATCHES/LANDINGS	Catches ¹⁾	Catches ²⁾		Catches		
MONTH	August	August	September	March	June	October
COUNTRY	Spain	United Kingdom		U. S. S. R.		
TONNAGE	1360	over 1800		1800		
< 18	-	-	-	8	-	-
18-20	-	-	-	1	-	-
21-23	-	-	-	1	-	1
24-26	-	-	-	1	-	2
27-29	-	-	-	3	-	5
30-32	22	8	-	7	-	11
33-35	121	7	-	15	-	48
36-38	99	10	-	17	-	132
39-41	121	41	-	38	-	110
42-44	77	39	100	67	-	134
45-47	154	79	152	76	-	103
48-50	121	90	145	102	21	118
51-53	40	73	139	132	47	104
54-56	59	90	113	155	130	72
57-59	69	118	10	121	156	71
60-62	59	151	64	113	245	36
63-65	18	125	23	62	187	28
66-68	18	105	38	31	78	14
69-71	18	32	26	19	68	3
72-74	4	14	72	9	31	3
75-77	-	16	47	6	11	1
78-80	-	1	28	5	16	1
81-83	-	2	28	1	5	1
84-86	-	-	15	1	-	-
87-89	-	-	-	-	-	-
90-92	-	-	-	1	-	-
93-95	-	-	-	1	-	-
96-98	-	-	-	1	-	-
-	-	-	-	-	-	-
105-107	-	-	-	1	5	-
108-110	-	-	-	1	-	-
> 110	-	-	-	2	-	-
Total ‰	1000	1001	1000	998	1000	998
Serial Numbers	-	-	-	-	-	-
Number of Samples	1	5	1	-	-	-
Number of Fish Measured	273	1762	385	3687	192	10553
Mean Length (cm)	-	-	-	53.86	61.66	46.51
Mean Weight (kg)	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	-	5436	612	136
Estimated Number Landed	-	-	-	-	-	-
Mesh Size (mm)	160 ³⁾	-	-	-	-	-
Range of Depths (fm)	145	-	-	137-235	-	118

1) before discarding

2) after discarding

3) Mesh Size - new, dry measure

TABLE 13 LENGTH FREQUENCIES - COD - 3N - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)		
	Catches ¹⁾	Catches After Discarding	
CATCHES/LANDINGS	March	July	November
MONTH	Spain	United Kingdom	
COUNTRY	1360	over 1800	
TONNAGE			
39-41	15	-	-
42-44	15	36	10
45-47	108	23	25
48-50	93	49	40
51-53	103	72	77
54-56	144	118	29
57-59	155	155	77
60-62	170	166	174
63-65	98	109	188
66-68	57	95	129
69-71	26	69	76
72-74	-	38	94
75-77	15	35	12
78-80	-	11	35
81-83	-	7	6
84-86	-	13	12
87-89	-	4	-
90-92	-	-	6
93-95	-	-	12
Total ‰	999	1000	1002
Serial Numbers	-	-	-
Number of Samples	1	2	2
Number of Fish Measured	194	480	280
Mean Length (cm)	-	-	-
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	-	-	-
Estimated Number Landed	-	-	-
Mesh Size (mm)	160 ²⁾	-	-
Range of Depths (fm)	93-109	-	-

- 1) before discard
 2) Mesh Size - new, dry measure

TABLE 14

LENGTH FREQUENCIES - COD - 30 - 1961

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)
CATCHES/LANDINGS	LANDINGS
MONTH	MAY
COUNTRY	CANADA (NEWFOUNDLAND)
TONNAGE	151-500
42-44	3
45-47	9
48-50	14
51-53	26
54-56	39
57-59	32
60-62	58
63-65	47
66-68	28
69-71	42
72-74	56
75-77	38
78-80	51
81-83	57
84-86	51
87-89	69
90-92	50
93-95	54
96-98	57
99-101	69
102-104	40
105-107	27
108-110	25
111-113	26
114-116	14
117-119	14
120-122	8
123-125	2
---	-
129-131	2
TOTAL ‰	1002
SERIAL NUMBERS	-
NUMBER OF SAMPLES	4
NUMBER OF FISH MEASURED	674
MEAN LENGTH (CM)	82.93
MEAN WEIGHT (KG)	5.99
TOTAL WEIGHT LANDED (TONS)	1679
ESTIMATED NUMBER LANDED	280779
MESH SIZE	L-M ¹⁾
RANGE OF DEPTHS (FM)	45-60

1) L = LARGE

(MESH SIZES VARY FROM 3 7/8 TO 4 3/4 INCHES)

M = MANILLA

TABLE 15 LENGTH FREQUENCIES - OOD - 3Pa - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)							
CATCHES/LANDINGS	Catches							
MONTH	February	February	March	March	March	April		
COUNTRY	Portugal							
TONNAGE	1264							
MORNING/EVENING		Morning	Evening		Morning	Evening		
39-41	-	4	7	10	4	-	70	-
42-44	23	16	20	20	8	7	170	-
45-47	43	52	80	70	12	13	200	40
48-50	77	100	127	87	44	47	150	30
51-53	87	124	67	167	48	40	130	100
54-56	157	108	147	130	108	93	80	110
57-59	127	132	153	144	148	100	10	150
60-62	150	148	87	97	168	193	80	190
63-65	113	148	107	64	188	173	50	140
66-68	87	64	53	74	124	127	40	70
69-71	73	36	73	64	60	73	20	70
72-74	30	32	40	20	40	80	-	20
75-77	20	16	20	17	16	13	-	10
78-80	7	12	7	10	16	13	-	30
81-83	3	8	7	3	4	-	-	-
84-86	-	-	-	3	4	13	-	20
87-89	3	-	-	-	-	7	-	10
90-92	-	-	-	7	4	-	-	-
93-95	-	-	-	3	-	-	-	-
96-98	-	-	-	-	-	-	-	-
99-101	-	-	-	3	-	7	-	10
102-104	-	-	-	-	4	-	-	-
105-107	-	-	-	3	-	-	-	-
—	-	-	-	-	-	-	-	-
134	-	-	-	3	-	-	-	-
Total ‰	1000	1000	995	999	1000	999	1000	1000
Serial Numbers	1-3-5	2		6-9-11	8		15	16
Number of Samples	3	1		3	1		1	1
Number of Fish Measured	300	250	150	299	250	150	100	100
Mean Length (cm)	59.4	58.6	61.9	57.1	61.9	63.0	50.6	61.6
Mean Weight (kg)	-	-	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-	-	-
Mesh Size (mm)	114	114	114	114	114	114	114	114
Range of Depths (fm)	85-134	100		120-144	90		85	100

TABLE 15
(CONT'D)

LENGTH FREQUENCIES - COD - 3PM - 1961

(FREQUENCIES IN $\frac{0}{100}$ - 3 CM GROUPS)

GEAR	LINE TRAWL (COMMERCIAL)			LONG LINE (COMMERCIAL)	
	LANDINGS BEFORE DISCARD			LANDINGS	
CATCHES/LANDINGS	APRIL	JUNE	JULY	MARCH	APRIL
MONTH	CANADA (NEWFOUNDLAND)				
COUNTRY	UNDER 25			0-50	
TONNAGE					
30-32	-	-	-	-	1
33-35	2	-	-	1	-
36-38	6	4	4	11	7
39-41	20	2	40	29	15
42-44	35	13	22	53	34
45-47	59	15	33	74	56
48-50	72	37	47	94	85
51-53	95	68	83	129	99
54-56	112	64	83	121	128
57-59	120	99	98	114	115
60-62	120	72	69	130	122
63-65	87	86	88	78	88
66-68	95	132	94	65	71
69-71	60	101	58	38	70
72-74	48	83	54	34	44
75-77	34	53	58	14	27
78-80	12	35	25	8	21
81-83	7	37	43	3	7
84-86	9	18	25	1	4
87-89	4	18	7	4	8
90-92	3	11	22	-	3
93-95	1	15	7	-	1
96-98	1	18	14	-	1
99-101	-	4	4	1	1
102-104	-	4	18	-	1
105-107	-	4	-	-	4
108-110	-	2	-	-	-
111-113	-	4	4	-	-
114-116	-	-	-	-	-
117-119	-	7	7	-	-
TOTAL $\frac{0}{100}$	1002	999	1002	1002	1008
SERIAL NUMBERS	-	-	-	-	-
NUMBER OF SAMPLES	6	2	2	6	4
NUMBER OF FISH MEASURED	1957	350	277	1958	1202
MEAN LENGTH (CM)	59.40	67.05	65.02	56.66	59.18
MEAN WEIGHT (KG)	1.99	2.80	2.83	1.79	2.00
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-
HOOK SIZE (NUMBER)	14-15	14-15	14-15	17	17
RANGE OF DEPTHS (FM)	35-80	60	60-70	60-100	50-90

TABLE 16

LENGTH FREQUENCIES - COD - 3Ps - 1961

(FREQUENCIES IN %/100 - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)					
	CATCHES			LANDINGS		
CATCHES/LANDINGS	APRIL		APRIL	APRIL	MARCH	APRIL
MONTH	PORTUGAL		SPAIN	CANADA (W.F.L.D.)		
COUNTRY	1264		1360	151-500		
TONNAGE	MORNING		EVENING			
MORNING/EVENING						
83-85	-	-	-	4	-	-
86-88	-	-	-	4	2	-
89-91	20	4	7	-	2	-
92-94	30	28	19	18	35	-
95-97	65	52	73	11	66	17
98-100	45	108	100	19	142	61
101-103	105	92	127	35	185	83
104-106	125	56	47	76	201	135
107-109	165	148	147	75	153	131
110-112	80	128	187	71	94	109
113-115	110	160	93	67	52	127
116-118	80	92	60	71	19	109
119-121	60	52	60	85	15	66
122-124	20	36	47	70	13	39
125-127	20	4	20	73	13	39
128-130	35	20	-	64	5	39
131-133	15	4	7	78	3	18
134-136	15	12	7	78	-	22
137-139	10	4	-	45	3	4
140-142	-	-	7	33	-	-
143-145	-	-	-	22	-	-
146-148	-	-	-	6	-	-
TOTAL %/100	1000	1000	1002	1000	1009	999
SERIAL NUMBERS	17-20		19	-	-	-
NUMBER OF SAMPLES	2		1	4	2	1
NUMBER OF FISH MEASURED	200	150	150	825	605	229
MEAN LENGTH (CM)	60.0	59.6	57.2	-	55.21	62.45
MEAN WEIGHT (KG)	-	-	-	-	1.54	2.28
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	723	394
ESTIMATED NUMBER LANDED	-	-	-	-	471850 ³⁾	172826 ³⁾
MESH SIZE (MM)	114	114	114	160 ²⁾	L-M ³⁾	L-M ³⁾
RANGE OF DEPTHS (FM)	90		85	82-87	90-100	100-130

- 1) BEFORE DISCARD
- 2) MESH SIZE - NEW, DRY MEASURE
- 3) L = LARGE
M = MANILLA
(MESH SIZES VARY FROM 3 7/8 INCHES TO 4 3/4 INCHES)

TABLE 16
(cont'd)

LENGTH FREQUENCIES - COD - SPs - 1961

(FREQUENCIES IN % - 3 CM GROUPS)

GEAR	LINE TRAWL (COMMERCIAL)				TRAP (COMMERCIAL)	
	LANDINGS BEFORE DISCARD					
CATCHES/LANDINGS	JUNE	JULY	AUGUST	SEPTEMBER	JUNE	JULY
MONTH	CANADA (NEWFOUNDLAND)					
COUNTRY	UNDER 25					
TONNAGE						
38-32	-	-	-	-	-	1
38-35	-	-	-	-	16	12
36-38	2	12	-	3	30	67
39-41	12	25	11	15	69	186
42-44	25	43	11	86	114	199
45-47	41	50	23	51	118	156
48-50	91	63	19	59	98	114
51-53	119	82	63	68	124	101
54-56	114	120	46	71	82	74
57-59	142	97	81	101	89	56
60-62	120	99	130	74	73	33
63-65	91	75	114	95	53	24
66-68	68	71	114	102	43	12
69-71	61	70	85	60	38	6
72-74	31	62	87	57	17	3
75-77	16	39	87	52	20	5
78-80	24	33	32	37	9	1
81-83	16	21	29	36	5	-
84-86	8	19	17	16	-	1
87-89	12	5	20	15	2	-
90-92	4	5	8	13	-	-
93-95	4	3	-	4	-	-
96-98	-	3	8	4	2	-
99-101	2	-	4	5	-	-
102-104	-	2	11	6	-	-
105-107	-	1	-	-	-	-
108-110	-	1	-	-	-	-
111-113	-	1	-	-	-	-
114-116	-	-	-	-	-	-
117-119	-	-	-	-	-	-
120-122	-	-	1	-	-	-
TOTAL %/00	1003	1002	1009	1000	1002	1001
SERIAL NUMBERS	-	-	-	-	-	-
NUMBER OF SAMPLES	2	8	3	13	2	11
NUMBER OF FISH MEASURED	528	1098	361	1733	747	3116
MEAN LENGTH (CM)	59.82	60.97	66.40	63.42	53.17	47.70
MEAN WEIGHT (KG)	2.08	2.02	2.98	2.56	1.96	1.11
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH OR HOOK SIZE	NO.	NO.	NO.	NO.	INCHES)	INCHES)
	14-15	14-15	14-15	14-15	4-C	4-C
RANGE OF DEPTHS (FM)	12-20	12-20	10-25	10-30	13	10-14.5

1) C = COTTON

TABLE 17 LENGTH FREQUENCIES - COD - 3P - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)		
CATCHES/LANDINGS	Catches After Discard		
MONTH	January	February	December
COUNTRY	United Kingdom		
TONNAGE	over 1800		
39-41	31	1	-
42-44	68	12	-
45-47	81	35	-
48-50	125	84	-
51-53	138	128	-
54-56	193	186	20
57-59	163	155	45
60-62	70	130	109
63-65	40	74	139
66-68	20	53	179
69-71	20	52	179
72-74	17	25	99
75-77	11	13	85
78-80	10	17	85
81-83	7	17	35
84-86	2	8	20
87-89	3	5	-
90-92	1	2	5
93-95	1	2	-
Total ‰	1001	999	1000
Serial Numbers	-	-	-
Number of Samples	3	3	1
Number of Fish Measured	868	1096	201
Mean Length (cm)	-	-	-
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	-	-	-
Estimated Number Landed	-	-	-
Mesh Size	-	-	-
Range of Depths (fm)	-	-	-

TABLE 18 LENGTH FREQUENCIES - COD - 4R - 1961 (FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)		
CATCHES/LANDINGS	Catches		
MONTH	March	March	
COUNTRY	Portugal		
TONNAGE	1264		
MORNING/EVENING		Morning	Evening
36-38	-	6	-
39-41	20	26	17
42-44	160	60	63
45-47	200	98	77
48-50	165	114	160
51-53	105	130	123
54-56	80	130	120
57-59	85	126	120
60-62	75	100	100
63-65	65	100	73
66-68	35	60	87
69-71	-	24	30
72-74	-	14	17
75-77	5	4	10
78-80	-	8	3
81-83	5	-	-
Total ‰	1000	1000	1000
Serial Numbers	1-6	2-5	
Number of Samples	2	2	
Number of Fish Measured	200	500	300
Mean Length (cm)	51.6	55.3	55.7
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	-	-	-
Estimated Number Landed	-	-	-
Mesh Size (mm)	114	114	114
Range of Depths (fm)	110-114	134	

TABLE 19

LENGTH FREQUENCIES - COD - NS - 1961

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)				
	CATCHES/LANDINGS		LANDINGS AFTER DISCARD		
MONTH	JULY		JULY	AUGUST	AUGUST
COUNTRY	CANADA (MARITIMES)				
TONNAGE	51-150			26-50	
SEA/WHARF	1)	2)			
18-20	1	-	-	-	-
21-23	1	-	-	-	-
24-26	-	-	-	-	-
27-29	3	-	-	-	-
30-32	3	-	-	-	-
33-35	3	-	-	-	-
36-38	6	-	-	-	-
39-41	9	5	10	5	-
42-44	18	8	32	8	40
45-47	30	71	98	71	82
48-50	77	101	169	101	118
51-53	136	180	207	180	188
54-56	194	200	157	200	186
57-59	173	154	136	154	91
60-62	136	104	84	104	127
63-65	85	91	51	91	121
66-68	60	48	23	48	66
69-71	32	18	19	18	34
72-74	15	18	8	18	29
75-77	9	-	3	-	11
78-80	3	-	1	-	7
81-83	2	3	1	3	2
84-86	3	2	-	2	5
87-89	-	-	1	-	2
90-92	-	-	-	-	-
93-95	-	-	-	-	-
96-98	1	-	-	-	-
99-101	-	2	-	2	2
TOTAL ‰/00	1000	1000	1000	1000	1000
SERIAL NUMBERS	-	-	-	-	-
NUMBER OF SAMPLES	1	1	2	1	1
NUMBER OF FISH MEASURED	1807	395	906	395	465
MEAN LENGTH (CM)	57.1	56.3	54.0	56.9	57.8
MEAN WEIGHT (KG)	-	1.61	1.46	1.61	1.65
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-
MESH SIZE (INCHES)	4 3/8	4 3/8	4 1/2	4 3/8	4 3/8
RANGE OF DEPTHS (FM)	30-90	30-90	10-60	30-90	30-60

1) SEA SAMPLE - CATCHES BEFORE DISCARD

2) SNOW SAMPLE - LANDINGS AFTER DISCARD

TABLE 19
(CONT'D)

LENGTH FREQUENCIES - COD - 4S - 1961

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)					
	LANDINGS					
CATCHES/LANDINGS	MAY	JUNE	JULY	AUGUST	SEPTEMBER	NOVEMBER
MONTH	CANADA (QUEBEC)					
COUNTRY	51-150					
TONNAGE						
93-95	-	-	-	-	-	3
96-98	-	-	-	-	-	11
99-41	-	2	3	4	2	29
42-44	3	18	17	20	34	71
45-47	10	78	45	42	64	103
48-50	25	157	107	92	76	161
51-53	60	142	130	152	80	114
54-56	133	120	141	157	138	159
57-59	143	78	122	155	120	87
60-62	173	102	120	123	159	98
63-65	128	93	116	94	94	63
66-68	85	47	84	54	87	45
69-71	75	29	48	40	60	24
72-74	63	24	28	24	34	13
75-77	45	33	18	22	28	11
78-80	15	16	9	5	14	3
81-83	8	20	2	8	2	3
84-86	20	9	6	4	7	-
87-89	5	16	2	3	-	-
90-92	-	2	1	-	-	-
93-95	8	4	1	-	-	-
96-98	-	-	-	-	-	-
99-101	-	2	-	1	-	-
102-104	-	2	-	-	-	-
105-107	5	2	-	-	-	-
108-110	-	2	-	-	-	3
---	-	-	-	-	-	-
129-131	-	2	-	-	-	-
TOTAL ‰/00	1004	1000	1000	1000	999	1001
SERIAL NUMBERS	-	-	-	-	-	-
NUMBER OF SAMPLES	1	2	3	2	1	1
NUMBER OF FISH MEASURED	400	451	992	757	435	378
MEAN LENGTH (CM)	63.25	58.99	58.64	58.10	59.14	54.37
MEAN WEIGHT (KG)	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH SIZE (INCHES)	4½	4½	4½	4½	4½	4½
RANGE OF DEPTHS (FM)	25	-	7-20	30-130	3-4	25-50

TABLE 19
(CONT'D)

LENGTH FREQUENCIES - COD - 4S - 1961

(FREQUENCIES IN 0/00 - 3 CM GROUPS)

GEAR	LONG LINE (COMMERCIAL)			TRAP (COMMERCIAL)		GILL NETS (COMMERCIAL)		
CATCHES/LANDINGS	LANDINGS							
MONTH	JULY	AUGUST	SEPTEMBER	JUNE	JULY	JUNE	JULY	AUGUST
COUNTRY	CANADA (QUEBEC)							
TONNAGE	0-25			NK		0-25		
39-41	-	-	-	3	-	-	-	-
42-44	-	2	-	13	-	-	-	-
45-47	-	9	-	60	4	-	-	-
48-50	6	25	-	129	65	40	2	-
51-53	46	40	-	133	126	-	13	5
54-56	51	56	-	135	192	40	68	2
57-59	120	54	-	97	160	80	115	11
60-62	177	95	77	113	147	240	228	140
63-65	97	83	73	96	111	220	199	220
66-68	160	95	77	70	84	80	156	227
69-71	103	97	113	54	46	80	78	120
72-74	109	82	95	38	24	20	53	73
75-77	46	70	75	25	17	40	35	54
78-80	23	58	75	18	14	40	23	54
81-83	6	42	50	5	2	20	5	22
84-86	17	33	67	5	4	40	12	18
87-89	11	24	34	2	-	-	2	15
90-92	-	21	36	1	2	-	5	7
93-95	6	19	24	1	-	20	-	-
96-98	-	19	22	-	1	20	1	9
99-101	11	15	32	-	-	20	-	2
102-104	-	12	18	-	-	-	1	4
105-107	-	5	18	1	1	-	-	4
108-110	-	11	32	1	-	-	-	2
111-113	-	8	18	-	-	-	2	2
114-116	-	4	24	1	-	-	-	-
117-119	-	6	8	-	-	-	-	-
120-122	6	3	10	-	-	-	-	2
123-125	6	6	12	-	-	-	-	7
126-128	-	2	4	-	-	-	-	-
129-131	-	3	8	-	-	-	-	-
TOTAL 0/00	1001	999	1002	1001	1000	1000	998	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	1	10	1	7	6	1	3	2
NUMBER OF FISH MEASURED	175	2755	505	1482	1555	50	820	450
MEAN LENGTH (CM)	66.59	72.42	81.62	58.80	59.72	66.94	64.57	69.69
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-
MESH OR HOOK SIZE 1)	15	15	15	4-5	4-5	5½	5½	5½
RANGE OF DEPTHS (FM)	-	-	-	-	-	9-10	10-20	15-20

1) MESH SIZE = INCHES
HOOK SIZE = NUMBERS

TABLE 20

LENGTH FREQUENCIES - COD - 4S-4T - 1961

(FREQUENCIES IN %/00 - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)			
	CATCHES/LANDINGS		LANDINGS AFTER DISCARD	
CATCHES/LANDINGS	CATCHES/LANDINGS		LANDINGS AFTER DISCARD	
MONTH	JULY		JULY	JULY
COUNTRY	CANADA (MARITIMES)			
TONNAGE	26-50		26-50	51-150
SEA/WHARF	1)	2)		
18-20	1	-	-	-
21-23	1	-	-	-
24-26	-	-	-	-
27-29	-	-	-	-
30-32	-	-	-	-
33-35	4	-	-	-
36-38	5	-	-	2
39-41	12	5	13	7
42-44	23	28	67	23
45-47	66	71	134	114
48-50	97	135	144	197
51-53	138	170	147	169
54-56	164	139	126	142
57-59	152	138	119	119
60-62	118	135	82	73
63-65	80	50	60	97
66-68	56	38	47	30
69-71	32	28	23	16
72-74	22	19	15	2
75-77	12	19	10	3
78-80	7	7	4	3
81-83	3	5	2	-
84-86	3	5	2	1
87-89	1	2	2	1
90-92	2	2	1	1
93-95	-	-	-	-
96-98	-	-	1	-
99-101	-	2	1	-
102-104	1	2	-	-
TOTAL %/00	1000	1000	1000	1000
SERIAL NUMBERS	-	-	-	-
NUMBER OF SAMPLES	1	1	2	1
NUMBER OF FISH MEASURED	1470	423	1060	476
MEAN LENGTH (CM)	56.9	56.7	54.7	54.4
MEAN WEIGHT (KG)	-	1.81	1.61	1.55
TOTAL WEIGHT LANDED (TONS)	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-
MESH SIZE (INCHES)	4-3/8	4-3/8	4-3/8-4-1/2	4-3/8
RANGE OF DEPTHS (FM)	6-60	6-60	20-60	-

PAIRED SEA AND WHARF SAMPLES

- 1) SEA SAMPLE - CATCHES BEFORE DISCARD
- 2) SHORE SAMPLE - LANDINGS AFTER DISCARD

TABLE 21

LENGTH FREQUENCIES - COD - 4T - 1961

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)					
	CATCHES	LANDINGS AFTER DISCARD				
CATCHES/LANDINGS	APRIL	MAY	JUNE	JUNE	JULY	JULY
MONTH	APRIL	MAY	JUNE	JUNE	JULY	JULY
COUNTRY	PORTUGAL	CANADA (MARITIMES)				
TONNAGE	1264	51-150	26-50	51-150	26-50	51-150
30-32	-	-	-	1	-	-
33-35	-	-	-	-	-	-
36-38	-	-	-	-	-	7
39-41	-	2	20	7	21	32
42-44	20	26	133	74	89	83
45-47	90	136	205	145	174	133
48-50	100	151	174	129	142	141
51-53	180	180	148	137	141	151
54-56	130	147	113	129	110	145
57-59	50	124	79	119	87	85
60-62	110	106	33	69	81	86
63-65	110	51	29	48	59	43
66-68	60	30	22	31	34	39
69-71	90	17	15	29	30	25
72-74	20	13	11	23	8	14
75-77	10	6	4	16	8	6
78-80	20	4	1	9	4	5
81-83	-	2	4	8	4	1
84-86	10	2	1	7	2	2
87-89	-	1	1	4	2	1
90-92	-	-	1	5	-	1
93-95	-	1	2	3	-	-
96-98	-	1	1	1	-	-
99-101	-	-	1	2	-	-
102-104	-	-	1	1	2	-
105-107	-	-	-	1	-	-
108-110	-	-	-	1	-	-
111-113	-	-	1	-	-	-
114-116	-	-	-	1	2	-
TOTAL ‰/00	1000	1000	1000	1000	1000	1000
SERIAL NUMBERS	9	-	-	-	-	-
NUMBER OF SAMPLES	1	1	2	4	1	3
NUMBER OF FISH MEASURED	100	641	1010	1417	550	1515
MEAN LENGTH (CM)	51.0	54.8	51.7	55.7	53.9	53.6
MEAN WEIGHT (KG)	-	1.39	1.29	1.59	1.42	1.43
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH SIZE (INCHES)	114 ¹⁾	4-1/4	4-1/2	4-5/8-5	4-1/2	4-3/8-4-1/2
RANGE OF DEPTHS (FM)	85	50-70	30-70	30-60	30-40	25-60

1) MESH SIZE - (MM)

TABLE 21
(CONT'D)

LENGTH FREQUENCIES - COD - 4T - 1961

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)						
CATCHES/LANDINGS	LANDINGS AFTER DISCARDS						
MONTH	JULY	AUGUST	AUGUST	SEPTEMBER	OCTOBER	OCTOBER	NOVEMBER
COUNTRY	CAN. (QUEBEC)	CANADA (MARITIMES)				CANADA (QUEBEC)	
TONNAGE	51-150	0-25	26-50		51-150		
33-35	-	-	-	-	-	2	17
36-38	-	-	6	13	-	9	9
39-41	5	-	55	85	61	20	51
42-44	5	4	137	192	164	33	162
45-47	15	55	156	214	124	89	128
48-50	68	225	146	137	104	152	145
51-53	166	285	125	117	68	180	145
54-56	141	136	94	78	71	206	128
57-59	102	94	79	52	74	130	94
60-62	141	64	54	37	74	82	51
63-65	122	47	48	22	78	43	26
66-68	63	21	26	16	51	15	17
69-71	44	3	19	10	47	11	9
72-74	34	18	14	9	36	7	9
75-77	29	13	11	4	19	4	9
78-80	34	6	7	8	6	9	-
81-83	-	8	4	5	10	4	-
84-86	5	2	7	-	4	2	-
87-89	-	4	2	-	3	-	-
90-92	10	2	1	-	1	2	-
93-95	-	4	1	1	3	-	-
96-98	-	1	3	-	2	-	-
99-101	10	3	2	-	-	-	-
102-104	-	1	1	-	-	-	-
105-107	5	1	-	-	-	-	-
108-110	-	1	1	-	-	-	-
111-113	-	-	-	-	-	-	-
114-116	-	-	1	-	-	-	-
117-119	-	1	-	-	-	-	-
120-122	-	1	-	-	-	-	-
TOTAL ‰	999	1000	1000	1000	1000	1000	1000
SERIAL NUMBERS	-	-	-	-	-	-	-
NUMBER OF SAMPLES	1	1	3	2	1	1	2
NUMBER OF FISH MEASURED	205	263	1936	772	345	461	117
MEAN LENGTH (CM)	60.65	55.5	52.8	49.6	54.7	54.18	50.83
MEAN WEIGHT (KG)	-	1.68	1.41	1.16	1.57	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-
MESH SIZE (INCHES)	4-4 $\frac{1}{2}$	4 $\frac{1}{2}$	4-3/8-4 $\frac{1}{2}$	4-3/8-4 $\frac{1}{2}$	4-3/8	4 $\frac{1}{2}$	4 $\frac{1}{2}$
RANGE OF DEPTHS (FM)	80-100	20-25	30-60	35-45	40	100-135	35-38

TABLE 21
(CONT'D)

LENGTH FREQUENCIES - COD - 4T - 1961

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	LONG LINE					JIGGER COD TRAP	GILL NETS	
	(COMMERCIAL)							
CATCHES/LANDINGS	LANDINGS AFTER DISCARD							
MONTH	JUNE	JULY	AUGUST	SEPTEMBER	NOVEMBER	JULY	JUNE	NK
COUNTRY	CANADA (QUEBEC)	CANADA (MAR.)		CANADA (QUEBEC)		CANADA (MAR.)		CANADA (QUEBEC)
TONNAGE	0-25						NK	0-25
30-32	3	-	-	-	-	-	1	-
33-35	-	-	-	-	8	-	8	-
36-38	18	-	-	3	23	10	32	-
39-41	23	10	3	13	68	39	81	2
42-44	35	27	19	33	102	98	159	8
45-47	67	63	38	33	110	157	177	-
48-50	108	104	76	70	118	167	164	-
51-53	108	110	60	48	125	137	104	3
54-56	99	110	78	100	112	137	93	8
57-59	114	124	69	80	70	108	56	7
60-62	99	104	82	108	65	39	40	29
63-65	97	80	66	55	50	20	28	85
66-68	53	70	57	55	45	-	18	100
69-71	38	50	48	63	22	19	6	131
72-74	20	43	35	48	28	10	-	103
75-77	41	20	25	45	17	10	-	88
78-80	26	23	10	30	8	-	-	73
81-83	12	10	21	33	13	10	6	61
84-86	9	10	19	15	3	-	1	51
87-89	6	7	23	18	-	10	25	49
90-92	6	10	28	25	2	10	-	64
93-95	3	13	32	15	3	19	-	41
96-98	3	3	23	15	2	-	-	34
99-101	-	3	25	35	-	-	-	20
102-104	3	3	26	20	-	-	-	12
105-107	6	-	23	5	-	-	-	14
108-110	-	3	23	5	-	-	-	10
111-113	-	-	19	10	2	-	-	2
114-116	-	-	16	10	3	-	-	-
117-119	-	-	18	5	-	-	-	-
120-122	3	-	15	5	-	-	-	5
123-125	-	-	7	3	-	-	-	-
126-128	-	-	3	-	-	-	-	-
129-131	-	-	5	-	-	-	-	-
132-134	-	-	5	3	-	-	-	-
135-137	-	-	1	-	-	-	-	-
---	-	-	-	-	-	-	-	-
147-149	-	-	1	-	-	-	-	-
TOTAL ‰	1000	1000	999	1006	999	1000	999	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	2	1	2	1	3	1	1	1
NUMBER OF FISH MEASURED	342	300	683	400	600	102	718	590
MEAN LENGTH (CM)	59.02	60.4	73.57	68.34	54.08	53.3	50.20	77.10
MEAN WEIGHT (KG)	-	-	-	-	-	1.52	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-
MESH OR HOOK SIZE	NO.14&15	NO.15	NO.14	NO.14	NO.14	NO.50	-	6 ¹⁾
RANGE OF DEPTHS (FM)	16	12-30	24	28	15-20	10-15	-	11-12

1) INCHES

TABLE 22

LENGTH FREQUENCIES - COD - 4VN - 1961

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)		
	CATCHES		
CATCHES/LANDINGS	MARCH	APRIL	APRIL
MONTH	PORTUGAL		
COUNTRY	1264		
TONNAGE			
36-38	-	-	72
39-41	40	100	100
42-44	230	220	248
45-47	170	210	152
48-50	200	150	164
51-53	80	150	100
54-56	160	50	64
57-59	80	60	32
60-62	20	20	40
63-65	-	10	12
66-68	10	10	4
69-71	10	-	4
72-74	-	-	-
75-77	-	-	4
78-80	-	20	-
81-83	-	-	-
84-86	-	-	4
TOTAL ‰	1000	1000	1000
SERIAL NUMBERS	4	7	8
NUMBER OF SAMPLES	1	1	1
NUMBER OF FISH MEASURED	100	100	250
MEAN LENGTH (CM)	49.3	48.5	47.3
MEAN WEIGHT (KG)	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-
ESTIMATED NUMBER LANDED	-	-	-
MESH SIZE (MM)	114	114	114
RANGE OF DEPTHS (FM)	110	80	80

TABLE 23

LENGTH FREQUENCIES - COD - 4Vs - 1961

(FREQUENCIES IN $\%$ - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)
CATCHES/LANDINGS	CATCH BEFORE DISCARD
MONTH	APRIL
COUNTRY	SPAIN
TONNAGE	1360
39-41	17
42-44	50
45-47	102
48-50	138
51-53	170
54-56	165
57-59	150
60-62	187
63-65	60
66-68	22
69-71	9
72-74	6
75-77	-
78-80	4
TOTAL $\%$	1000
SERIAL NUMBERS	-
NUMBER OF SAMPLES	3
NUMBER OF FISH MEASURED	878
MEAN LENGTH (CM)	-
MEAN WEIGHT (KG)	-
TOTAL WEIGHT LANDED (TONS)	-
ESTIMATED NUMBER LANDED	-
MESH SIZE (MM) 1)	160
RANGE OF DEPTHS (FM)	65

1) MESH SIZE - NEW, DRY MEASURE

TABLE 24

LENGTH FREQUENCIES - COD - 4V - 1961

(FREQUENCIES IN %/00 - 3 CM GROUPS)

GEAR	LONG LINE (COMMERCIAL)	
CATCHES/LANDINGS	LANDINGS AFTER DISCARD	
MONTH	AUGUST & SEPTEMBER	NOVEMBER
COUNTRY	CANADA (MARITIMES)	
TONNAGE	0-25	
39-41	7	85
42-44	21	137
45-47	41	122
48-50	85	197
51-53	114	114
54-56	153	101
57-59	165	79
60-62	134	60
63-65	105	37
66-68	61	17
69-71	45	14
72-74	19	12
75-77	21	2
78-80	15	8
81-83	7	1
84-86	6	1
87-89	-	3
90-92	1	-
93-95	-	3
96-98	-	2
99-101	-	1
102-104	-	4
105-107	-	2
108-110	-	1
TOTAL %/00	1000	1000
SERIAL NUMBERS	-	-
NUMBER OF SAMPLES	4	1
NUMBER OF FISH MEASURED	788	310
MEAN LENGTH (CM)	58.6	51.9
MEAN WEIGHT (KG)	1.90	1.50
TOTAL WEIGHT LANDED (TONS)	-	-
ESTIMATED NUMBER LANDED	-	-
HOOK SIZE (NUMBER)	6/0	16
RANGE OF DEPTHS (FM)	25-35	24-34

TABLE 25

LENGTH FREQUENCIES - COD - 4W - 1961

(FREQUENCIES IN ⁰/00 - 3 CM GROUPS)

GEAR CATCHES/LANDINGS MONTH COUNTRY TONNAGE	OTTER TRAWL (COMMERCIAL)		
	LANDINGS AFTER DISCARD		
	MARCH & APRIL	MAY	JUNE
	CANADA (MARITIMES)		
	151-500		
42-44	1	1	1
45-47	6	13	7
48-50	23	43	48
51-53	62	147	150
54-56	103	202	155
57-59	112	121	174
60-62	140	139	150
63-65	108	81	104
66-68	97	98	66
69-71	75	66	45
72-74	48	40	25
75-77	36	22	31
78-80	37	10	18
81-83	34	5	11
84-86	28	2	9
87-89	25	6	3
90-92	21	-	2
93-95	13	2	1
96-98	7	-	-
99-101	5	-	-
102-104	6	2	-
105-107	2	-	-
108-110	2	-	-
111-113	2	-	-
114-116	1	-	-
117-119	1	-	-
120-122	1	-	-
123-125	1	-	-
126-128	1	-	-
129-131	1	-	-
132-134	1	-	-
TOTAL ⁰ /00	1000	1000	1000
SERIAL NUMBERS	-	-	-
NUMBER OF SAMPLES	5	1	1
NUMBER OF FISH MEASURED	1479	447	400
MEAN LENGTH (CM)	67.0	60.3	60.3
MEAN WEIGHT (KG)	3.15	2.00	2.26
TOTAL WEIGHT LANDED (TONS)	-	-	-
ESTIMATED NUMBER LANDED	-	-	-
MESH SIZE (INCHES)	4 $\frac{1}{2}$ -4- $\frac{3}{4}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$
RANGE OF DEPTHS (FM)	40-80	50-60	-

TABLE 26

LENGTH FREQUENCIES - COD - 4X - 1961

(FREQUENCIES IN 0/00 - 3 CM GROUPS)

GEAR	LONG LINE (COMMERCIAL)			HAND LINE (COMMERCIAL)
	LANDINGS AFTER DISCARD			
CATCHES/LANDINGS	FEBRUARY	JUNE	NOVEMBER	OCTOBER
MONTH	CANADA (MARITIMES)			
COUNTRY				
TONNAGE	26-50			0-25
30-32	-	-	2	6
33-35	-	-	-	20
36-38	-	-	20	86
39-41	-	-	39	132
42-44	8	-	30	92
45-47	15	8	14	138
48-50	11	27	13	105
51-53	46	23	41	46
54-56	106	39	94	92
57-59	91	108	64	46
60-62	213	108	64	66
63-65	125	76	45	59
66-68	122	77	128	13
69-71	87	141	68	33
72-74	61	95	83	13
75-77	43	74	90	7
78-80	31	19	50	6
81-83	4	23	81	7
84-86	6	38	47	20
87-89	4	25	16	-
90-92	6	16	-	7
93-95	2	25	8	-
96-98	1	14	3	-
99-101	5	13	-	6
102-104	2	14	-	-
105-107	4	7	-	-
108-110	5	-	-	-
111-113	2	5	-	-
114-116	-	7	-	-
117-119	-	7	-	-
120-122	-	5	-	-
123-125	-	4	-	-
---	-	-	-	-
138-140	-	2	-	-
TOTAL 0/00	1000	1000	1000	1000
SERIAL NUMBERS	-	-	-	-
NUMBER OF SAMPLES	1	1	1	1
NUMBER OF FISH MEASURED	300	300	300	152
MEAN LENGTH (CM)	61.1	71.4	66.0	51.3
MEAN WEIGHT (KG)	3.17	4.01	3.05	1.56
TOTAL WEIGHT LANDED (TONS)	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-
HOOK SIZE (NUMBER)	16	11	11	16
RANGE OF DEPTHS (FM)	50	-	40-70	20

TABLE 26

LENGTH FREQUENCIES - COD - 5Y - 1961

(FREQUENCIES IN $\%$ - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)					
	LANDINGS					
CATCHES/LANDINGS	LANDINGS					
MONTH	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
COUNTRY	UNITED STATES					
TONNAGE	ALL SIZES					
42-44	-	-	5	-	-	-
45-47	40	79	29	-	14	-
48-50	80	20	45	57	76	-
51-53	80	10	37	57	62	48
54-56	120	29	68	106	97	94
57-59	40	78	102	107	97	141
60-62	80	20	102	124	97	48
63-65	80	146	94	83	68	95
66-68	40	117	109	66	89	96
69-71	40	136	77	89	104	143
72-74	-	117	98	98	82	48
75-77	80	30	57	73	42	95
78-80	-	20	59	57	34	-
81-83	40	20	25	16	34	48
84-86	80	20	38	-	35	48
87-89	80	20	15	41	21	48
90-92	-	20	3	-	41	-
93-95	40	78	9	-	7	-
96-98	-	20	19	-	-	-
99-101	-	-	9	-	-	-
102-104	-	-	-	16	-	-
105-107	80	-	-	-	-	-
108-110	-	20	-	-	-	-
111-113	-	-	-	16	-	-
114-116	-	-	-	-	-	-
117-119	-	-	-	-	-	48
TOTAL $\%$	1000	1000	1000	1000	1000	1000
SERIAL NUMBERS	-	-	-	-	-	-
NUMBER OF SAMPLES	1	2	5	2	3	1
NUMBER OF FISH MEASURED	25	73	222	91	145	21
MEAN LENGTH (CM)	-	-	-	-	-	-
MEAN WEIGHT (KG)	3.8	4.6	3.6	3.2	2.0	3.7
TOTAL WEIGHT LANDED (TONS)	136.9	127.4	89.1	132.6	149.8	92.0
EST. NO. LANDED (MILLIONS)	0.036	0.028	0.025	0.042	0.077	0.025
MESH SIZE	-	-	-	-	-	-
RANGE OF DEPTHS (FM)	63-95	65-95	60-130	70-105	20-90	58-85

TABLE 26

LENGTH FREQUENCIES - COD - 4X - 1961

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	LONG LINE (COMMERCIAL)			HAND LINE (COMMERCIAL)
	LANDINGS AFTER DISCARD			
CATCHES/LANDINGS	FEBRUARY	JUNE	NOVEMBER	OCTOBER
MONTH	CANADA (MARITIMES)			
COUNTRY	CANADA (MARITIMES)			
TONNAGE	26-50			0-25
30-32	-	-	2	6
33-35	-	-	-	20
36-38	-	-	20	86
39-41	-	-	39	132
42-44	8	-	30	92
45-47	15	8	14	138
48-50	11	27	13	105
51-53	46	23	41	46
54-56	106	39	94	92
57-59	91	108	64	46
60-62	213	108	64	66
63-65	125	76	45	59
66-68	122	77	128	13
69-71	87	141	68	33
72-74	61	95	83	13
75-77	43	74	90	7
78-80	31	19	50	6
81-83	4	23	81	7
84-86	6	38	47	20
87-89	4	25	16	-
90-92	6	16	-	7
93-95	2	25	8	-
96-98	1	14	3	-
99-101	5	13	-	6
102-104	2	14	-	-
105-107	4	7	-	-
108-110	5	-	-	-
111-113	2	5	-	-
114-116	-	7	-	-
117-119	-	7	-	-
120-122	-	5	-	-
123-125	-	4	-	-
---	-	-	-	-
138-140	-	2	-	-
TOTAL ‰	1000	1000	1000	1000
SERIAL NUMBERS	-	-	-	-
NUMBER OF SAMPLES	1	1	1	1
NUMBER OF FISH MEASURED	300	300	300	152
MEAN LENGTH (CM)	61.1	71.4	66.0	51.3
MEAN WEIGHT (KG)	3.17	4.01	3.05	1.56
TOTAL WEIGHT LANDED (TONS)	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-
HOOK SIZE (NUMBER)	16	11	11	16
RANGE OF DEPTHS (FM)	50	-	40-70	20

TABLE 26

LENGTH FREQUENCIES - COD - 5Y - 1961

(FREQUENCIES IN % - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)					
	LANDINGS					
CATCHES/LANDINGS	LANDINGS					
MONTH	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
COUNTRY	UNITED STATES					
TONNAGE	ALL SIZES					
42-44	-	-	5	-	-	-
45-47	40	79	29	-	14	-
48-50	80	20	45	57	76	-
51-53	80	10	37	57	62	48
54-56	120	29	68	106	97	94
57-59	40	78	102	107	97	141
60-62	80	20	102	124	97	48
63-65	80	146	94	89	68	95
66-68	40	117	109	66	89	96
69-71	40	136	77	83	104	143
72-74	-	117	98	98	82	48
75-77	80	30	57	73	42	95
78-80	-	20	59	57	34	-
81-83	40	20	25	16	34	48
84-86	80	20	38	-	35	48
87-89	80	20	15	41	21	48
90-92	-	20	3	-	41	-
93-95	40	78	9	-	7	-
96-98	-	20	19	-	-	-
99-101	-	-	9	-	-	-
102-104	-	-	-	16	-	-
105-107	80	-	-	-	-	-
108-110	-	20	-	-	-	-
111-113	-	-	-	16	-	-
114-116	-	-	-	-	-	-
117-119	-	-	-	-	-	48
TOTAL %	1000	1000	1000	1000	1000	1000
SERIAL NUMBERS	-	-	-	-	-	-
NUMBER OF SAMPLES	1	2	5	2	3	1
NUMBER OF FISH MEASURED	25	73	222	91	145	21
MEAN LENGTH (CM)	-	-	-	-	-	-
MEAN WEIGHT (KG)	3.8	4.6	3.6	3.2	2.0	3.7
TOTAL WEIGHT LANDED (TONS)	136.9	127.4	89.1	132.6	149.8	92.0
EST. NO. LANDED (MILLIONS)	0.036	0.028	0.025	0.042	0.077	0.025
MESH SIZE	-	-	-	-	-	-
RANGE OF DEPTHS (FM)	63-95	65-95	60-130	70-105	20-90	58-85

TABLE 26
(CONT'D)

LENGTH FREQUENCIES - COD - 5Y - 1961

(FREQUENCIES IN 9/00 - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)					
	LANDINGS					
CATCHES/LANDINGS	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL JAN.-DEC.
MONTH	UNITED STATES					
COUNTRY	ALL SIZES					
TORRAGE						
39-41	7	-	14	11	-	3
42-44	7	-	-	17	-	3
45-47	30	15	14	18	53	27
48-50	98	61	42	40	57	55
51-53	105	30	84	30	127	67
54-56	68	46	48	174	77	92
57-59	91	93	48	100	190	108
60-62	40	93	129	112	130	98
63-65	33	93	75	52	91	79
66-68	81	46	32	26	48	62
69-71	74	124	24	40	42	73
72-74	54	93	60	13	95	68
75-77	67	77	61	53	48	58
78-80	91	31	60	53	19	38
81-83	23	77	28	78	5	36
84-86	71	30	72	26	3	33
87-89	14	-	45	65	-	30
90-92	30	31	14	13	-	15
93-95	13	-	24	26	-	15
96-98	3	15	48	13	3	10
99-101	-	-	10	27	3	6
102-104	-	45	10	-	3	6
105-107	-	-	14	-	3	7
108-110	-	-	14	13	-	4
111-113	-	-	-	-	3	2
114-116	-	-	10	-	-	1
117-119	-	-	10	-	-	3
120-122	-	-	10	-	-	1
TOTAL 9/00	1000	1000	1000	1000	1000	1000
SERIAL NUMBERS	-	-	-	-	-	-
NUMBER OF SAMPLES	4	1	2	2	2	25
NUMBER OF FISH MEASURED	139	65	88	125	113	1107
MEAN LENGTH (CM)	-	-	-	-	-	-
MEAN WEIGHT (KG)	3.5	4.2	4.6	3.9	2.7	3.6
TOTAL WEIGHT LANDED (TONS)	105.2	160.0	190.5	278.2	291.9	1820.7
EST. NO. LANDED (MILLIONS)	0.030	0.038	0.041	0.071	0.086	0.499
MESH SIZE	-	-	-	-	-	-
RANGE OF DEPTHS (FM)	45-105	65-85	50-95	45-95	50-92	-

TABLE 27

LENGTH FREQUENCIES - COD - 52 - 1961

(FREQUENCIES IN 0/00 - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)						
CATCHES/LANDINGS	LANDINGS						
MONTH	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY
COUNTRY	UNITED STATES						
TONNAGE	ALL SIZES						
39-35	-	-	-	-	7	-	-
36-38	-	53	-	-	7	-	-
39-41	39	218	-	-	-	18	5
42-44	123	282	-	-	64	18	57
45-47	102	255	-	54	106	187	125
48-50	118	101	13	137	169	181	288
51-53	146	38	59	147	88	214	212
54-56	140	21	65	157	97	79	93
57-59	121	16	75	125	84	67	66
60-62	30	16	63	101	92	132	36
63-65	42	-	61	47	74	39	62
66-68	30	-	124	52	56	56	36
69-71	28	-	98	49	41	9	10
72-74	30	-	70	24	37	-	10
75-77	16	-	103	45	38	-	-
78-80	15	-	53	40	12	-	-
81-83	6	-	78	9	21	-	-
84-86	8	-	74	13	-	-	-
87-89	8	-	28	-	7	-	-
90-92	2	-	9	-	-	-	-
93-95	1	-	9	-	-	-	-
96-98	1	-	9	-	-	-	-
99-101	-	-	9	-	-	-	-
TOTAL 0/00	1000	1000	1000	1000	1000	1000	1000
SERIAL NUMBERS	-	-	-	-	-	-	-
NUMBER OF SAMPLES	7	2	2	3	3	3	3
NUMBER OF FISH MEASURED	451	188	195	195	195	219	212
MEAN LENGTH (CM)	-	-	-	-	-	-	-
MEAN WEIGHT (KG)	2.1	1.1	4.0	2.5	2.3	1.8	1.7
TOTAL WEIGHT LANDED (TONS)	529.7	541.2	1301.0	1279.4	1889.4	1388.0	1256.4
EST. NO. LANDED (MILLIONS)	0.256	0.509	0.323	0.515	0.829	0.772	0.728
MESH SIZE	-	-	-	-	-	-	-
RANGE OF DEPTHS (FM)	8-75	15-20	32-70	25-40	26-35	20-40	28-40

TABLE 27
(CONT'D)

LENGTH FREQUENCIES - COD - 52 - 1961

(FREQUENCIES IN $\%$ - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)					
CATCHES/LANDINGS	LANDINGS					
MONTH	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL JAN.-DEC.
COUNTRY	UNITED STATES					
TONNAGE	ALL SIZES					
33-35	-	21	-	-	-	3
36-38	-	113	-	-	-	16
39-41	-	133	-	-	-	33
42-44	12	173	6	26	25	64
45-47	146	137	49	42	50	111
48-50	237	81	161	91	102	152
51-53	166	64	245	237	186	156
54-56	91	86	241	227	134	122
57-59	86	51	137	156	96	89
60-62	95	30	105	92	67	76
63-65	73	31	19	58	63	47
66-68	28	16	14	15	40	36
69-71	24	21	17	24	71	27
72-74	10	17	-	3	59	17
75-77	22	18	3	23	25	20
78-80	8	6	3	-	33	10
81-83	2	1	-	3	40	9
84-86	-	1	-	3	5	5
87-89	-	-	-	-	4	3
90-92	-	-	-	-	-	1
93-95	-	-	-	-	-	1
96-98	-	-	-	-	-	1
99-101	-	-	-	-	-	1
TOTAL $\%$	1000	1000	1000	1000	1000	1000
SERIAL NUMBERS	-	-	-	-	-	-
NUMBER OF SAMPLES	4	5	4	4	5	45
NUMBER OF FISH MEASURED	457	431	425	305	433	3706
MEAN LENGTH (CM)	-	-	-	-	-	-
MEAN WEIGHT (KG)	2.0	1.5	1.9	2.1	2.6	2.0
TOTAL WEIGHT LANDED (TONS)	1008.9	982.1	1483.1	1274.8	603.9	13537.9
EST. NO. LANDED (MILLIONS)	0.512	0.658	0.778	0.619	0.236	6.735
MESH SIZE	-	-	-	-	-	-
RANGE OF DEPTHS (FM)	17-80	12-115	10-140	12-100	15-130	8-140

TABLE 28

AGE FREQUENCIES - COD - IA - 1961

(FREQUENCIES IN ‰)

GEAR		HADD LINE (NK)											
CATCHES/LANDINGS		(NK)											
MONTH		JULY-AUGUST						SEPTEMBER					
COUNTRY		DENMARK (GREENLAND)											
TONNAGE		(NK)											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	Tot.	00	99	Tot.	00	99	Tot.	00	99	Tot.
1957	4	338	293	631	50.3	49.8	50.0	130	150	280	49.7	49.7	49.7
1956	5	5	10	15	57.0	49.0	51.7	-	10	10	-	56.0	56.0
1955	6	-	5	5	-	67.0	67.0	20	10	30	63.5	60.0	62.3
1954	7	5	5	15	69.0	76.0	73.3	10	20	30	67.0	75.5	72.7
1953	8	20	30	50	77.8	81.8	78.9	90	100	190	79.2	78.8	79.0
1952	9	20	15	35	81.0	77.7	78.8	10	60	70	74.0	78.7	78.0
1951	10	5	5	10	84.0	90.0	87.0	20	40	60	79.5	84.8	83.0
1950	11	35	51	86	81.3	84.9	83.4	20	90	110	87.5	83.1	83.9
1949	12	-	5	5	-	90.0	90.0	10	-	10	85.0	-	85.0
1948	13	5	5	10	83.0	94.0	88.5	-	30	30	-	91.3	91.3
1947	14	40	61	101	86.3	91.0	89.1	80	30	110	83.1	88.7	84.6
1946	15	-	-	-	-	-	-	10	-	10	94.0	-	94.0
1945	16	5	-	5	85.0	-	85.0	10	30	40	112.0	94.3	98.8
1944	17	5	-	5	86.0	-	86.0	-	-	-	-	-	-
1943	18	5	10	15	-	94.5	89.3	-	-	-	-	-	-
1942	19	-	10	10	79.0	104.5	104.5	10	10	20	90.0	97.0	93.5
TOTAL ‰		488	505	998	/			420	580	1000	/		
SERIAL NUMBERS		-	-	-									
NUMBER OF SAMPLES		-	-	-									
NUMBER OF FISH AGED		-	-	198									
MEAN AGE		-	-	6.7									
MEAN WEIGHT (KG)		-	-	CA.3.3									
TOTAL WEIGHT LANDED (TONS)		-	-	-									
ESTIMATED NUMBER LANDED		-	-	-									
MESH OR HOOK SIZE		-	-	-									
RANGE OF DEPTHS (FM)		-	-	-									

1) ONE NOT SEXED

TABLE 28
(CONT'D)

AGE FREQUENCIES - COD - IA - 1961

(FREQUENCIES IN ‰)

GEAR		HAND LINE (NK)					
CATCHES/LANDINGS		(NK)					
MONTH		OCTOBER-NOVEMBER					
COUNTRY		DENMARK (GREENLAND)					
TONNAGE		(NK)					
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH		
		♂♂	♀♀	TOT.	♂♂	♀♀	TOT.
1954	7	30	75	105	78.5	77.4	77.4
1953	8	90	75	165	75.5	87.4	80.9
1952	9	30	15	45	84.0	86.0	84.7
1951	10	30	45	75	80.5	88.3	85.2
1950	11	75	75	150	84.6	89.2	86.9
1949	12	-	15	15	-	96.0	96.0
1948	13	45	15	60	86.3	97.0	89.0
1947	14	60	209	269	87.8	90.4	89.8
1946	15	-	-	-	-	-	-
1945	16	60	15	75	64.3	95.0	88.0
1944	17	-	-	-	-	-	-
1943	18	-	15	15	-	96.0	96.0
1942	19	30	-	30	88.5	-	88.5
TOTAL ‰		450	554	1004			
SERIAL NUMBERS		-	-	-			
NUMBER OF SAMPLES		-	-	-			
NUMBER OF FISH AGED		-	-	67			
MEAN AGE		-	-	11.6			
MEAN WEIGHT (KG)		-	-	7.2			
TOTAL WEIGHT LANDED (TONS)		-	-	-			
ESTIMATED NUMBER LANDED		-	-	-			
MESH OR HOOK SIZE		-	-	-			
RANGE OF DEPTHS (FM)		-	-	-			

TABLE 29

AGE FREQUENCIES - COD - IB - 1961

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (COMMERCIAL)						BOTTOM LONG LINE (RESEARCH)					
CATCHES/LANDINGS		NK						CATCHES					
MONTH		MAY-JUNE						APRIL					
COUNTRY		DENMARK (FARGES)						NORWAY					
TONNAGE		955						NK					
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1958	3	-	-	-	-	-	-	1	-	1	48.0	-	48.0
1957	4	39	55	94	44.8	46.7	45.9	164	176	340	52.1	52.0	52.1
1956	5	16	86	102	57.5	56.4	56.5	96	109	205	58.8	61.0	60.0
1955	6	63	102	165	66.4	65.9	66.1	49	83	132	67.6	69.7	68.3
1954	7	39	39	78	72.8	74.6	73.7	43	45	88	71.4	73.6	72.5
1953	8	55	213	268	77.6	79.8	79.3	86	83	169	76.2	78.5	77.4
1952	9	16	31	47	80.0	85.0	84.0	18	15	33	78.2	81.4	79.7
1951	10	8	8	16	83.0	83.0	83.0	6	7	13	84.3	87.4	86.0
1950	11	16	23	39	93.0	87.7	89.8	2	1	3	82.3	92.5	84.3
1949	12	-	-	-	-	-	-	1	-	1	86.0	-	86.0
1948	13	-	16	16	-	90.5	90.5	1	-	1	84.5	-	84.5
1947	14	8	71	79	81.0	87.1	86.5	2	4	6	91.8	95.2	94.2
1946	15	-	16	16	-	81.0	81.0	2	1	3	83.0	124.5	96.8
1945	16	8	16	24	83.0	94.0	91.2	1	1	2	91.0	87.5	89.8
1944	17	8	31	39	74.0	104.2	98.2	-	-	-	-	-	-
1943	18	-	8	8	-	98.0	98.0	1	2	3	88.5	102.5	99.0
1942	19	-	-	-	-	-	-	-	-	-	-	-	-
1941	20	-	8	8	-	99.0	99.0	-	1	1	-	93.5	93.5
TOTAL ‰		276	723	999				473	528	1001			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	1				-	-	10			
NUMBER OF FISH AGED		35	92	127				805	898	1703			
MEAN AGE		7.60	8.82	8.48				5.8	5.9	5.8			
MEAN WEIGHT (KG)		-	-	-				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH OR HOOK SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)		-	-	-				-	-	25-170			

TABLE 29
(CONT'D)

AGE FREQUENCIES - COD - IB - 1961

(FREQUENCIES IN ‰)

GEAR		SHRIMP TRAWL (NK)													
CATCHES/LANDINGS		NK													
MONTH		JUNE						JUNE							
COUNTRY		DENMARK (GREENLAND)													
TONNAGE		NK													
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH				
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.		
1957	4	26	61	87	57.3	49.3	51.7	79	67	146	55.0	55.0	55.0		
1956	5	43	43	86	60.6	65.6	63.1	112	101	213	63.8	66.3	65.0		
1955	6	52	139	191	70.2	70.2	70.2	45	202	247	59.5	70.5	68.5		
1954	7	9	52	61	74.0	72.8	73.0	22	34	56	72.0	77.0	75.0		
1953	8	139	270	426	77.3	66.8	76.8	90	180	270	80.4	79.0	79.5		
1952	9	26	17	52	75.3	80.0	77.7	11	22	33	79.0	86.5	84.0		
1951	10	-	-	-	-	-	-	-	11	11	-	90.0	90.0		
1950	11	9	17	26	88.0	84.0	84.7	-	11	11	-	85.0	85.0		
1949	12	-	-	-	-	-	-	-	-	-	-	-	-		
1948	13	-	-	-	-	-	-	-	-	-	-	-	-		
1947	14	26	26	52	89.0	91.0	90.0	-	11	11	-	89.0	89.0		
1946	15	-	-	-	-	-	-	-	-	-	-	-	-		
1945	16	-	9	9	-	90.0	90.0	-	-	-	-	-	-		
1944	17	-	-	-	-	-	-	-	-	-	-	-	-		
1943	18	-	-	-	-	-	-	-	-	-	-	-	-		
1942	19	-	9	9	-	103.0	103.0	-	-	-	-	-	-		
TOTAL ‰		330	643	999	/			359	639	998	/				
SERIAL NUMBERS				15											16
NUMBER OF SAMPLES				-											-
NUMBER OF FISH AGED				115											89
MEAN AGE				7.5											6.4
MEAN WEIGHT (KG)				CA.3.5											-
TOTAL WEIGHT LANDED (TONS)				-											-
ESTIMATED NUMBER LANDED				-											-
MESH OR HOOK SIZE				-											-
RANGE OF DEPTHS				-											-

1) THREE NOT SEXED

TABLE 29
(CONT'D)

AGE FREQUENCIES - COD - 18 - 1961

(FREQUENCIES IN ‰)

GEAR		SHRIMP TRAWL (NK)											
CATCHES/LANDINGS		NK						NK					
MONTH		JULY-AUGUST						SEPTEMBER-OCTOBER					
COUNTRY		DENMARK (GREENLAND)											
TONNAGE		NK											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1957	4	300	280	580	52.4	53.7	53.0	-	40	40	-	50.8	50.8
1956	5	50	100	160 ¹⁾	62.6	61.5	62.1	10	10	20	65.0	63.0	64.0
1955	6	70	50	120	70.0	74.6	71.9	30	69	99	57.7	66.3	63.7
1954	7	20	40	60	75.5	74.8	75.0	59	50	109	68.8	69.6	69.2
1953	8	10	50	60	70.0	79.6	78.0	119	109	228	71.5	74.0	72.7
1952	9	-	-	-	-	-	-	10	20	30	78.0	77.5	77.7
1951	10	-	-	-	-	-	-	40	-	40	76.5	-	76.5
1950	11	-	10	10	-	92.0	92.0	30	59	89	76.7	78.0	77.6
1949	12	-	-	-	-	-	-	10	-	10	67.0	-	67.0
1948	13	-	-	-	-	-	-	20	10	30	77.5	84.0	79.7
1947	14	-	10	10	-	86.0	86.0	119	99	218	78.9	81.9	80.3
1946	15	-	-	-	-	-	-	30	10	40	78.0	82.0	79.0
1945	16	-	-	-	-	-	-	10	10	20	90.0	84.0	87.0
1944	17	-	-	-	-	-	-	-	-	-	-	-	-
1943	18	-	-	-	-	-	-	-	-	-	-	-	-
1942	19	-	-	-	-	-	-	20	10	30	79.0	84.0	80.7
TOTAL ‰		450	540	1000				507	496	1003			
SERIAL NUMBERS													
NUMBER OF SAMPLES													
NUMBER OF FISH AGED													
MEAN AGE													
MEAN WEIGHT (KG)													
TOTAL WEIGHT LANDED (TONS)													
ESTIMATED NUMBER LANDED													
MESH OR HOOK SIZE													
RANGE OF DEPTHS													

1) ONE NOT SEXED

TABLE 29
(CONT'D)

AGE FREQUENCIES - COD - 18 - 1961

(FREQUENCIES IN ⁰/100)

GEAR		HAND LINE AND LONG LINE (RESEARCH)											
CATCHES/LANDINGS		NK											
MONTH		JULY						AUGUST					
COUNTRY		DENMARK (GREENLAND)											
TONNAGE		NK											
YEAR-CLASS	AGE	⁰ /100 FREQUENCY			MEAN LENGTH			⁰ /100 FREQUENCY			MEAN LENGTH		
		⁰ /100	⁰ /100	TOT.	⁰ /100	⁰ /100	TOT.	⁰ /100	⁰ /100	TOT.	⁰ /100	⁰ /100	TOT.
1958	3	13	5	18	39.2	38.0	38.9	26	46	72	36.0	40.4	38.8
1957	4	412	439	851	50.0	49.8	49.9	377	397	774	51.2	50.2	50.7
1956	5	19	21	40	63.6	62.5	63.0	20	40	60	60.7	59.0	59.6
1955	6	21	24	45	68.4	70.6	69.5	33	20	53	69.6	71.7	70.4
1954	7	8	5	13	71.3	72.5	71.8	7	-	7	69.0	-	69.0
1953	8	16	11	27	74.7	78.5	76.2	13	7	20	82.0	82.0	83.0
1952	9	-	3	3	-	74.0	74.0	-	-	-	-	-	-
1951	10	-	-	-	-	-	-	-	-	-	-	-	-
1950	11	3	-	3	86.0	-	86.0	-	13	13	-	92.5	92.5
TOTAL ⁰ /100		492	508	1000				476	523	999			
SERIAL NUMBERS				7						8			
NUMBER OF SAMPLES		-	-	-				-	-	-			
NUMBER OF FISH AGED				376						151			
MEAN AGE				4.3						4.4			
MEAN WEIGHT (KG)				-						1.6			
TOTAL WT. LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH OR HOOK SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS		-	-	-				-	-	-			

TABLE 30

AGE FREQUENCIES - COD - IC - 1961

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (RESEARCH)						BOTTOM LONG LINE (RESEARCH)						
CATCHES/LANDINGS		CATCHES												
MONTH		APRIL						APRIL						
COUNTRY		NORWAY												
TONNAGE		NK												
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH			
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.	
1958	3	-	7	7	-	38.0	38.0	-	-	-	-	-	-	-
1957	4	315	206	521	51.7	51.3	51.5	27	25	52	52.4	50.0	51.3	
1956	5	81	71	152	62.5	60.6	62.1	25	22	47	58.6	58.8	58.7	
1955	6	60	32	92	68.4	66.5	67.7	43	55	98	67.2	68.4	67.9	
1954	7	21	43	64	72.2	70.4	71.0	37	35	72	71.7	73.4	72.5	
1953	8	67	60	127	75.1	75.3	75.2	172	186	358	75.6	79.3	77.5	
1952	9	4	7	11	85.0	84.5	84.7	45	60	105	77.1	80.8	79.2	
1951	10	4	3	7	82.0	88.0	85.0	18	23	41	77.7	83.5	81.0	
1950	11	-	-	-	-	-	-	21	55	76	86.1	88.2	87.6	
1949	12	-	-	-	-	-	-	4	10	14	83.5	88.8	87.3	
1948	13	4	3	7	80.0	95.0	87.5	12	6	18	84.2	85.7	84.7	
1947	14	-	4	4	-	86.0	86.0	14	31	45	82.7	89.0	87.1	
1946	15	4	-	4	84.0	-	84.0	-	8	8	-	91.2	91.2	
1945	16	-	-	-	-	-	-	6	14	20	84.0	97.7	93.6	
1944	17	-	-	-	-	-	-	6	10	16	90.0	95.2	93.2	
1943	18	4	-	4	91.0	-	91.0	2	12	14	83.0	97.2	95.1	
1942	19	-	-	-	-	-	-	2	10	12	83.0	96.4	94.2	
1941	20	-	-	-	-	-	-	-	-	-	-	-	-	
1940	21	-	-	-	-	-	-	-	2	2	-	108.0	108.0	
1939	22	-	-	-	-	-	-	-	-	-	-	-	-	
1938	23	-	-	-	-	-	-	-	-	-	-	-	-	
1937	24	-	-	-	-	-	-	-	2	2	-	104.0	104.0	
TOTAL ‰		564	436	1000				434	566	1000				
SERIAL NUMBERS														
NUMBER OF SAMPLES				2						4				
NUMBER OF FISH AGED		159	123	282				222	289	511				
MEAN AGE		5.04	5.61	5.25				8.31	9.33	8.88				
MEAN WEIGHT (KG)		-	-	-				-	-	-				
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-				
ESTIMATED NUMBER LANDED		-	-	-				-	-	-				
MESH OR HOOK SIZE		-	-	-				-	-	-				
RANGE OF DEPTHS		-	-	-				-	-	-				

TABLE 30
(CONT'D)

AGE FREQUENCIES - COD - IC - 1961

(FREQUENCIES IN ‰)

GEAR		HAND LINE AND LONG LINE (NK)													
CATCHES/LANDINGS		NK													
MONTH		AUGUST						AUGUST							
COUNTRY		DENMARK (GREENLAND)													
TONNAGE		NK													
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH				
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.		
1959	2	6	13	19	27.0	33.0	31.0	-	-	-	-	-	-		
1958	3	130	130	260	37.2	38.9	38.0	25	13	38	42.0	40.0	41.3		
1957	4	279	377	656	47.1	46.9	47.0	50	75	125	50.8	51.8	51.4		
1956	5	19	13	32	67.3	47.5	59.4	50	88	138	59.8	68.9	65.5		
1955	6	-	-	-	-	-	-	-	13	13	-	74.0	74.0		
1954	7	13	-	13	66.5	-	66.5	50	25	75	77.8	83.0	79.5		
1953	8	-	-	-	-	-	-	75	88	163	81.7	79.9	80.7		
1952	9	-	6	6	-	65.0	65.0	25	38	63	84.5	81.3	82.6		
1951	10	-	-	-	-	-	-	-	50	50	-	80.5	80.5		
1950	11	6	-	6	91.0	-	91.0	-	38	38	-	92.7	92.7		
1949	12	-	-	-	-	-	-	-	-	-	-	-	-		
1948	13	-	-	-	-	-	-	13	13	26	80.0	91.0	85.5		
1947	14	6	-	6	82.0	-	82.0	125	75	200	81.3	87.3	83.6		
1946	15	-	-	-	-	-	-	-	-	-	-	-	-		
1945	16	-	-	-	-	-	-	38	13	51	82.7	99.0	86.8		
1944	17	-	-	-	-	-	-	-	-	-	-	-	-		
1943	18	-	-	-	-	-	-	-	-	-	-	-	-		
1942	19	-	-	-	-	-	-	-	13	13	-	104.0	104.0		
1941	20	-	-	-	-	-	-	-	13	13	-	84.0	84.0		
TOTAL ‰		459	539	998	/			451	555	1006	/				
SERIAL NUMBERS				19											20
NUMBER OF SAMPLES				-											-
NUMBER OF FISH AGED				154											80
MEAN AGE				3.9											9.1
MEAN WEIGHT (KG)				-											-
TOTAL WEIGHT LANDED (TONS)				-											-
ESTIMATED NUMBER LANDED				-											-
MESH OR HOOK SIZE				-					-						
RANGE OF DEPTHS				-					-						

TABLE 30
(CONT'D)

AGE FREQUENCIES - COD - IC - 1961

(FREQUENCIES IN ⁰/₀₀)

GEAR		HAND LINE (RESEARCH)					
CATCHES/LANDINGS		CATCHES					
MONTH		AUGUST					
COUNTRY		DENMARK (GREENLAND)					
TONNAGE		NK					
YEAR-CLASS	AGE	⁰ / ₀₀ FREQUENCY			MEAN LENGTH		
		⁰⁰	⁰⁰	TOTAL	⁰⁰	⁰⁰	TOTAL
1958	3	10	5	15	43.5	40.0	42.3
1957	4	383	244	627	51.9	52.1	52.0
1956	5	90	79	160	64.7	69.2	66.7
1955	6	20	25	45	70.0	74.6	72.6
1954	7	20	20	40	74.0	70.8	72.4
1953	8	30	40	70	76.2	80.3	78.5
1952	9	5	-	5	80.0	-	80.0
1951	10	5	-	5	78.0	-	78.0
1950	11	10	5	15	84.0	87.0	85.0
1949	12	-	-	-	-	-	-
1948	13	5	-	5	81.0	-	81.0
1947	14	10	5	15	85.0	92.0	87.3
TOTAL ⁰ / ₀₀		588	414	1002			
SERIAL NUMBERS					9		
NUMBER OF SAMPLES					-		
NUMBER OF FISH AGED					201		
MEAN AGE					5.0		
MEAN WEIGHT (KG)					2.2		
TOTAL WEIGHT LANDED (TONS)					-		
ESTIMATED NUMBER LANDED					-		
MESH OR HOOK SIZE					-		
RANGE OF DEPTHS					-		

TABLE 31

AGE FREQUENCIES - COD - ID - 1961

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (COMMERCIAL)													
CATCHES/LANDINGS		CATCHES													
MONTH		APRIL 1)						APRIL 2)							
COUNTRY		ICELAND													
TONNAGE		NK													
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH				
		00'	99'	TOT.	00'	99'	TOT.	00'	99'	TOT.	00'	99'	TOT.		
1957	4	-	-	146	-	-	49.6	-	-	-	-	-	-		
1956	5	-	-	623	-	-	58.3	-	-	101	-	-	63.9		
1955	6	-	-	55	-	-	65.5	-	-	131	-	-	69.9		
1954	7	-	-	95	-	-	71.9	-	-	106	-	-	73.7		
1953	8	-	-	116	-	-	78.1	-	-	460	-	-	76.2		
1952	9	-	-	5	-	-	82.0	-	-	71	-	-	79.0		
1951	10	-	-	10	-	-	88.5	-	-	51	-	-	89.4		
1950	11	-	-	-	-	-	-	-	-	20	-	-	81.9		
1949	12	-	-	10	-	-	84.5	-	-	10	-	-	84.0		
1948	13	-	-	-	-	-	-	-	-	5	-	-	88.0		
1947	14	-	-	-	-	-	-	-	-	30	-	-	83.8		
1946	15	-	-	-	-	-	-	-	-	10	-	-	87.0		
1945	16	-	-	-	-	-	-	-	-	-	-	-	-		
1944	17	-	-	-	-	-	-	-	-	5	-	-	-		
TOTAL ‰		-	-	1000	/			-	-	1000	/				
SERIAL NUMBERS		-	-	-				-	-	-				-	-
NUMBER OF SAMPLES		-	-	-				-	-	-				-	-
NUMBER OF FISH AGED		-	-	199				-	-	-				-	198
MEAN AGE		-	-	-				-	-	-				-	-
MEAN WEIGHT (KG)		-	-	-				-	-	-				-	-
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-				-	-
ESTIMATED NUMBER LANDED		-	-	-				-	-	-				-	-
MESH OR HOOK SIZE		-	-	-				-	-	-				-	-
RANGE OF DEPTHS (FM)		-	-	-	-	-	-	-	-						

1) FISKENAES BANK

2) DANAS BANK

TABLE 31
(CONT'D)

AGE FREQUENCIES - COD - ID - 1961

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (COMMERCIAL)											
CATCHES/LANDINGS		CATCHES											
MONTH		APRIL 1)						APRIL 1)					
COUNTRY		ICELAND											
TONNAGE		NK											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1957	4	-	-	51	-	-	54.7	-	-	5	-	-	47.0
1956	5	-	-	111	-	-	64.6	-	-	51	-	-	61.0
1955	6	-	-	197	-	-	68.6	-	-	213	-	-	68.7
1954	7	-	-	91	-	-	75.0	-	-	162	-	-	72.5
1953	8	-	-	444	-	-	76.8	-	-	431	-	-	76.5
1952	9	-	-	56	-	-	79.4	-	-	36	-	-	80.3
1951	10	-	-	30	-	-	84.2	-	-	36	-	-	80.3
1950	11	-	-	5	-	-	73.0	-	-	46	-	-	84.3
1949	12	-	-	5	-	-	96.0	-	-	5	-	-	96.0
1948	13	-	-	5	-	-	77.0	-	-	-	-	-	-
1947	14	-	-	5	-	-	84.0	-	-	15	-	-	89.0
TOTAL ‰		-	-	1000	-	-	-	-	-	1000	-	-	-
SERIAL NUMBERS		-	-	-	/						-	-	-
NUMBER OF SAMPLES		-	-	-							-	-	-
NUMBER OF FISH AGED		-	-	198							-	-	-
MEAN AGE		-	-	-							-	-	-
MEAN WEIGHT (KG)		-	-	-							-	-	-
TOTAL WEIGHT LANDED (TONS)		-	-	-							-	-	-
ESTIMATED NUMBER LANDED		-	-	-							-	-	-
MESH OR HOOK SIZE		-	-	-							-	-	-
RANGE OF DEPTHS (FM)		-	-	-							-	-	-

1) FYLLA BANK

TABLE 31
(CONT'D)

AGE FREQUENCIES - COD - 1D - 1961

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL											
		(RESEARCH)					(COMMERCIAL)						
CATCHES/LANDINGS		CATCHES					NK						
MONTH		APRIL					MAY						
COUNTRY		NORWAY					DENMARK (FAROES)						
TONNAGE		NK					955						
YEAR-CLASS	AGE	‰/OO FREQUENCY			MEAN LENGTH			‰/OO FREQUENCY			MEAN LENGTH		
		OO	OO	TOT.	OO	OO	TOT.	OO	OO	TOT.	OO	OO	TOT.
1957	4	156	221	377	50.6	52.2	51.5	252	214	466	52.1	51.0	51.5
1956	5	205	189	394	57.6	60.0	58.8	78	49	127	59.3	59.3	59.3
1955	6	25	98	123	66.3	67.7	67.4	39	49	88	67.8	67.0	67.3
1954	7	-	33	33	-	72.8	72.8	34	29	63	69.4	71.2	70.2
1953	8	33	8	41	77.5	82.0	78.4	73	136	209	75.6	78.0	77.2
1952	9	-	8	8	-	77.0	77.0	5	10	15	76.5	83.5	81.2
1951	10	8	8	16	84.0	82.0	83.0	5	5	10	77.5	67.5	70.8
1950	11	-	-	-	-	-	-	5	10	15	79.5	94.0	89.2
1949	12	-	-	-	-	-	-	-	-	-	-	-	-
1948	13	-	-	-	-	-	-	-	-	-	-	-	-
1947	14	8	-	8	76.0	-	76.0	-	-	-	-	-	-
1946	15	-	-	-	-	-	-	-	-	-	-	-	-
1945	16	-	-	-	-	-	-	-	10	10	-	100.0	100.0
TOTAL ‰/OO		435	565	1000				491	512	1003			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	1				-	-	1			
NUMBER OF FISH AGED		53	69	122				101	105	206			
MEAN AGE		5.19	5.07	5.12				6.1	5.3	5.7			
MEAN WEIGHT (KG)		-	-	-				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH OR HOOK SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)		-	-	-				-	-	45			

TABLE 31
(CONT'D)

AGE FREQUENCIES - COD - ID - 1961

(FREQUENCIES IN ‰/00)

GEAR		OTTER TRAWL (COMMERCIAL)											
CATCHES/LANDINGS		CATCHES											
MONTH		SEPTEMBER 1)					SEPTEMBER 2)						
COUNTRY		ICELAND											
TONNAGE		NK											
YEAR-CLASS	AGE	‰/00 FREQUENCY			MEAN LENGTH			‰/00 FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1958	3	-	-	31	-	-	48.5	-	-	-	-	-	-
1957	4	-	-	163	-	-	53.9	-	-	164	-	-	55.9
1956	5	-	-	551	-	-	63.5	-	-	369	-	-	67.1
1955	6	-	-	82	-	-	71.9	-	-	103	-	-	73.9
1954	7	-	-	20	-	-	79.3	-	-	56	-	-	78.9
1953	8	-	-	92	-	-	77.9	-	-	149	-	-	81.5
1952	9	-	-	10	-	-	87.0	-	-	21	-	-	91.8
1951	10	-	-	10	-	-	103.5	-	-	31	-	-	82.7
1950	11	-	-	10	-	-	90.0	-	-	51	-	-	87.2
1949	12	-	-	5	-	-	57.0	-	-	5	-	-	102.0
1948	13	-	-	-	-	-	-	-	-	10	-	-	97.5
1947	14	-	-	26	-	-	81.8	-	-	31	-	-	86.3
1946	15	-	-	-	-	-	-	-	-	5	-	-	100.0
1945	16	-	-	-	-	-	-	-	-	-	-	-	-
1944	17	-	-	-	-	-	-	-	-	-	-	-	-
1943	18	-	-	5	-	-	81.0	-	-	-	-	-	-
TOTAL ‰/00		-	-	1005				-	-	995			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF FISH AGED		-	-	196				-	-	195			
MEAN AGE		-	-	-				-	-	-			
MEAN WEIGHT (KG)		-	-	-				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH OR HOOK SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)		-	-	-				-	-	-			

1) FISKENAES BANK

2) FYLLA BANK

TABLE 31
(CONT'D)

AGE FREQUENCIES - COD - ID - 1961

(FREQUENCIES IN 0/00)

GEAR		BOTTOM LONG LINE (RESEARCH)											
CATCHES/LANDINGS		CATCHES											
MONTH		APRIL						MAY					
COUNTRY		NORWAY											
TONNAGE		NK											
YEAR-CLASS	AGE	0/00 FREQUENCY			MEAN LENGTH			0/00 FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1958	3	-	-	-	-	-	-	3	-	3	37.0	-	37.0
1957	4	33	54	87	50.0	49.6	49.7	26	21	47	52.4	53.0	52.7
1956	5	47	25	72	60.2	60.0	60.1	44	32	76	59.1	60.3	59.6
1955	6	40	43	83	66.8	68.1	67.5	50	38	88	65.5	68.6	66.9
1954	7	47	54	101	69.4	73.9	71.8	38	56	94	70.5	71.2	70.9
1953	8	174	268	442	74.9	76.2	75.7	159	303	462	74.3	77.2	76.2
1952	9	36	33	69	79.2	79.1	79.2	21	53	74	76.9	81.9	80.4
1951	10	7	11	18	79.5	83.7	82.0	15	23	38	80.0	84.0	82.5
1950	11	33	40	73	81.3	81.2	81.2	6	29	35	80.5	85.1	84.3
1949	12	-	4	4	-	92.0	92.0	9	3	12	80.3	87.0	82.0
1948	13	7	4	11	71.0	85.0	75.7	15	3	18	79.2	88.0	80.7
1947	14	11	21	32	84.3	87.8	86.7	6	29	35	82.0	83.5	83.2
1946	15	-	-	-	-	-	-	3	3	6	80.0	102.0	91.0
1945	16	-	4	4	-	90.0	90.0	-	-	-	-	-	-
1944	17	-	-	-	-	-	-	-	3	3	-	83.0	83.0
1943	18	-	-	-	-	-	-	-	3	3	-	83.0	83.0
1942	19	-	4	4	-	100.0	100.0	3	3	6	88.0	90.0	89.0
TOTAL 0/00		435	565	1000				398	602	1000			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES				3						2			
NUMBER OF FISH AGED		120	156	276				135	205	340			
MEAN AGE		7.66	7.95	7.82				7.68	8.31	8.06			
MEAN WEIGHT (KG)		-	-	-				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH OR HOOK SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)		-	-	-				-	-	-			

TABLE 31
(CONT'D)

AGE FREQUENCIES - COD - ID - 1961

(FREQUENCIES IN %/00)

GEAR		LONG LINE (NK)											
CATCHES/LANDINGS		NK											
MONTH		APRIL						APRIL					
COUNTRY		DENMARK						GREENLAND					
TONNAGE		NK											
YEAR-CLASS	AGE	%00 FREQUENCY			MEAN LENGTH			%00 FREQUENCY			MEAN LENGTH		
		♂	♀	TOT.	♂	♀	TOT.	♂	♀	TOT.	♂	♀	TOT.
1957	4	43	31	74	48.7	52.0	50.1	41	54	95	52.1	50.3	51.1
1956	5	4	8	12	63.0	58.0	59.7	62	54	116	60.1	60.5	60.3
1955	6	12	12	24	70.7	68.7	69.7	25	107	132	69.7	73.7	72.9
1954	7	20	27	47	70.6	75.0	73.2	8	74	83 ¹⁾	69.0	74.4	73.9
1953	8	203	395	598	75.3	78.6	77.5	62	269	335 ²⁾	77.1	80.6	80.0
1952	9	20	70	90	76.8	80.1	79.4	17	66	83	86.3	83.6	84.2
1951	10	16	23	39	82.0	84.7	83.6	8	29	37	80.0	84.9	83.8
1950	11	4	62	66	83.0	87.4	87.1	8	25	33	83.5	79.3	80.4
1949	12	4	4	8	89.0	82.0	89.0	-	8	8	-	89.5	89.5
1948	13	4	8	12	84.0	86.5	85.7	-	12	12	-	94.0	94.0
1947	14	12	8	20	83.7	83.5	83.6	8	41	50 ¹⁾	87.0	86.0	86.2
1946	15	-	4	4	-	88.0	88.0	-	-	-	-	-	-
1945	16	4	-	4	81.0	-	81.0	-	8	8	-	88.5	88.5
1944	17	-	4	4	-	97.0	97.0	-	-	-	-	-	-
1943	18	-	-	-	-	-	-	-	4	4	-	94.0	94.0
1942	19	-	-	-	-	-	-	-	4	4	-	95.0	95.0
TOTAL %00		346	656	1002				239	755	1000			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	-				-	-	-			
NUMBER OF FISH AGED		-	-	256				-	-	242			
MEAN AGE		-	-	8.3				-	-	7.7			
MEAN WEIGHT (KG)		-	-	3.8				-	-	3.8			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH OR HOOK SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)		-	-	148				-	-	44-93			

1) ONE NOT SEXED

2) FOUR NOT SEXED

TABLE 31
(CONT'D)

AGE FREQUENCIES - COD - 10 - 1961

(FREQUENCIES IN %)

GEAR		LONG LINE (NK)											
CATCHES/LANDINGS		NK											
MONTH		MAY					JUNE						
COUNTRY		DENMARK					GREENLAND						
TONNAGE		NK											
YEAR-CLASS	AGE	% FREQUENCY			MEAN LENGTH			% FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1957	4	113	63	176	49.9	51.9	50.6	9	14	23	51.0	56.0	54.0
1956	5	86	68	154	61.4	62.5	61.8	5	-	5	56.0	-	56.0
1955	6	29	54	77	66.6	69.9	68.9	27	5	32	67.8	69.0	69.0
1954	7	14	54	68	73.3	75.1	74.7	23	23	46	70.6	76.6	76.6
1953	8	54	140	194	76.3	76.7	76.6	68	54	122	76.9	80.3	80.3
1952	9	9	41	50	74.5	83.0	81.5	5	14	19	80.0	88.3	88.3
1951	10	5	32	37	78.0	79.9	79.6	-	5	5	-	94.0	94.0
1950	11	5	90	95	85.0	85.1	85.1	77	45	122	83.5	92.2	92.2
1949	12	-	-	-	-	-	-	14	-	14	82.3	-	82.3
1948	13	-	23	23	-	87.4	87.4	32	32	64	84.1	93.3	93.3
1947	14	32	68	100	83.0	87.9	86.3	149	127	276	86.5	93.6	93.6
1946	15	-	-	-	-	-	-	9	-	9	96.0	-	96.0
1945	16	-	18	18	-	83.8	83.8	72	59	131	84.8	95.4	95.4
1944	17	-	-	-	-	-	-	9	9	18	92.5	104.0	104.0
1943	18	-	-	-	-	-	-	27	14	41	85.3	96.0	96.0
1942	19	-	9	9	-	95.5	95.5	32	45	77	89.9	101.3	101.3
TOTAL %		341	660	1001				558	446	1004			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	-				-	-	-			
NUMBER OF FISH AGED				221						221			
MEAN AGE				8.0						12.7			
MEAN WEIGHT (KG)				3.4						CA.6.3			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH OR HOOK SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)				44-93						66-178			

TABLE 31
(CONT'D)

AGE FREQUENCIES - COD - ID - 1961

(FREQUENCIES IN ‰)

GEAR		HAND LINE AND LONG LINE (NK)											
CATCHES/LANDINGS		NK											
MONTH		JANUARY						FEBRUARY					
COUNTRY		DENMARK						(GREENLAND)					
TONNAGE		NK											
YEAR-CLASS	AGE	‰/00 FREQUENCY			MEAN LENGTH			‰/00 FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1957	4	110	77	187	44.8	44.0	44.5	24	95	119	-	-	-
1956	5	-	11	11	-	60.0	60.0	24	36	60	-	-	-
1955	6	44	11	55	59.3	67.0	60.8	48	36	84	-	-	-
1954	7	-	11	11	-	67.0	67.0	48	60	108	-	-	-
1953	8	88	99	187	68.2	76.9	72.8	12	119	191	-	-	-
1952	9	33	99	132	79.0	76.9	77.4	36	71	107	-	-	-
1951	10	22	11	33	74.5	79.0	76.0	12	36	48	-	-	-
1950	11	99	55	154	75.0	80.2	76.9	95	24	119	-	-	-
1949	12	11	11	22	80.0	81.0	80.5	-	12	12	-	-	-
1948	13	11	22	33	73.0	84.0	80.3	36	12	48	-	-	-
1947	14	77	55	132	80.6	87.2	83.3	24	95	119	-	-	-
1946	15	-	-	-	-	-	-	-	-	-	-	-	-
1945	16	-	-	-	-	-	-	12	12	24	-	-	-
1944	17	-	-	-	-	-	-	12	-	12	-	-	-
1943	18	-	-	-	-	-	-	-	-	-	-	-	-
1942	19	11	22	33	80.0	86.5	84.3	12	-	12	-	-	-
1941	20	-	-	-	-	-	-	-	-	-	-	-	-
1940	21	11	-	11	108.0	-	108.0	-	-	-	-	-	-
1939	22	-	-	-	-	-	-	-	-	-	-	-	-
1938	23	-	-	-	-	-	-	-	-	-	-	-	-
1937	24	-	-	-	-	-	-	-	-	-	-	-	-
1936	25	-	-	-	-	-	-	-	12	12	-	-	-
TOTAL ‰/00		517	484	1001				396	620	1015			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	-				-	-	-			
NUMBER OF FISH AGED				91						84			
MEAN AGE				9.3						9.3			
MEAN WEIGHT (KG)				3.9						6.4			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH OR HOOK SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)		-	-	-				-	-	-			

TABLE 31
(CONT'D)

AGE FREQUENCIES - COD - ID - 1961

(FREQUENCIES IN ‰)

GEAR		HAND LINE AND LONG LINE (NK)											
CATCHES/LANDINGS		NK											
MONTH		MARCH						APRIL					
COUNTRY		DENMARK						GREENLAND					
TONNAGE		NK											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1958	3	11	5	16	37.0	34.0	36.0	275	275	550	50.1	49.5	49.8
1957	4	178	265	449 ¹⁾	50.3	49.5	49.8	235	150	385	59.6	59.3	59.4
1956	5	97	249	346	59.7	58.7	58.9	5	15	20	68.0	68.3	68.3
1955	6	32	49	81	69.0	67.9	68.3	15	-	15	74.0	-	74.0
1954	7	5	32	37	65.0	70.2	69.4	-	15	15	-	80.7	80.7
1953	8	-	16	16	-	75.0	75.0	-	5	5	-	81.0	81.0
1952	9	5	43	48	81.0	80.4	80.4	5	-	5	79.0	-	79.0
1951	10	-	-	-	-	-	-	5	-	5	84.0	-	84.0
-	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	30	-	5	5	-	78.0	78.0	-	-	-	-	-	-
TOTAL ‰		328	664	998	/			540	460	1000	/		
SERIAL NUMBERS		-	-	23				24					
NUMBER OF SAMPLES		-	-	-				-					
NUMBER OF FISH AGED		-	-	185				200					
MEAN AGE		-	-	5.0				3.6					
MEAN WEIGHT (KG)		-	-	1.4				1.7					
TOTAL WEIGHT LANDED (TONS)		-	-	-				-					
ESTIMATED NUMBER LANDED		-	-	-				-					
MESH OR HOOK SIZE		-	-	-				-					
RANGE OF DEPTHS (FM)		-	-	-				-					

1) ONE NOT SEXED

TABLE 31
(CONT'D)

AGE FREQUENCIES - COD - ID - 1961

(FREQUENCIES IN 0/00)

GEAR		HAND LINE AND LONG LINE (NK)														
CATCHES/LANDINGS		NK														
MONTH		APRIL						JULY								
COUNTRY		DENMARK (GREENLAND)														
TONNAGE		NK														
YEAR-CLASS	AGE	0/00 FREQUENCY			MEAN LENGTH			0/00 FREQUENCY			MEAN LENGTH					
		00	00	TOT.	00	00	TOT.	00	00	TOT.	00	00	TOT.			
1958	3	9	-	9	46.0	-	46.0	-	-	-	-	-	-			
1957	4	190	129	319	53.0	50.8	52.1	54	47	101	54.3	55.0	54.6			
1956	5	267	353	620	62.9	63.7	63.1	27	41	68	61.8	59.3	60.3			
1955	6	17	17	34	72.5	67.5	70.0	14	20	34	64.5	73.3	69.8			
1954	7	-	9	9	-	61.0	61.0	41	54	95	77.5	74.6	75.9			
1953	8	-	9	9	-	90.0	90.0	101	101	202	74.1	78.8	76.4			
1952	9	-	-	-	-	-	-	34	47	81	80.4	85.3	83.3			
1951	10	-	-	-	-	-	-	41	14	55	79.7	88.0	81.8			
1950	11	-	-	-	-	-	-	81	54	135	80.3	80.8	80.5			
1949	12	-	-	-	-	-	-	7	7	14	86.0	102.0	94.0			
1948	13	-	-	-	-	-	-	20	20	40	82.3	82.7	82.5			
1947	14	-	-	-	-	-	-	68	88	156	83.2	84.9	84.2			
1946	15	-	-	-	-	-	-	-	-	-	-	-	-			
1945	16	-	-	-	-	-	-	14	7	21	77.0	82.0	78.7			
TOTAL 0/00		483	517	1000	/			502	500	1002	/					
SERIAL NUMBERS		-	-	25				-						26		
NUMBER OF SAMPLES		-	-	-				-						-		
NUMBER OF FISH AGED		-	-	116				-						148		
MEAN AGE		-	-	4.7				-						9.2		
MEAN WEIGHT (KG)		-	-	-				-						-		
TOTAL WEIGHT LANDED (TONS)		-	-	-				-						-		
ESTIMATED NUMBER LANDED		-	-	-				-						-		
MESH OR HOOK SIZE		-	-	-				-						-		
RANGE OF DEPTHS (FM)		-	-	-				-						-		

TABLE 31
(CONT'D)

AGE FREQUENCIES - COD - ID - 1961

(FREQUENCIES IN 0/00)

GEAR		HAND LINE AND LONG LINE (RESEARCH)											
CATCHES/LANDINGS		CATCHES											
MONTH		JULY					JULY						
COUNTRY		DENMARK (GREENLAND)											
TONNAGE		NK											
YEAR-CLASS	AGE	0/00 FREQUENCY			MEAN LENGTH			0/00 FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1958	3	-	-	-	-	-	-	-	5	5	-	43.0	43.0
1957	4	50	64	114	53.4	50.3	51.7	299	224	523	51.9	52.5	52.1
1956	5	29	14	43	61.8	69.0	64.2	100	129	229	63.4	62.5	62.9
1955	6	29	21	50	71.8	71.0	71.4	20	50	70	68.8	71.5	70.7
1954	7	14	43	57	69.5	79.8	77.3	10	35	45	74.4	76.3	75.8
1953	8	36	143	179	79.4	83.0	82.2	40	40	80	77.8	85.0	81.4
1952	9	21	36	57	87.3	80.2	82.9	10	5	15	82.5	97.0	87.3
1951	10	29	21	50	80.3	77.7	79.1	5	-	5	81.0	-	81.0
1950	11	36	43	79	83.4	90.2	87.1	5	15	20	78.0	92.7	89.0
1949	12	7	-	7	86.0	-	86.0	-	-	-	-	-	-
1948	13	21	21	42	81.7	92.3	87.0	-	-	-	-	-	-
1947	14	121	114	235	85.1	91.9	88.4	5	5	10	83.0	93.0	88.0
1946	15	-	-	-	-	-	-	-	-	-	-	-	-
1945	16	29	14	43	87.0	92.5	88.8	-	-	-	-	-	-
1944	17	14	-	14	89.0	-	89.0	-	-	-	-	-	-
1943	18	-	-	-	-	-	-	-	-	-	-	-	-
1942	19	21	7	28	85.0	94.0	87.3	-	-	-	-	-	-
TOTAL 0/00		457	541	998				494	508	1002			
SERIAL NUMBERS													
NUMBER OF SAMPLES													
NUMBER OF FISH AGED													
MEAN AGE													
MEAN WEIGHT (KG)													
TOTAL WEIGHT LANDED (TONS)													
ESTIMATED NUMBER LANDED													
MESH OR HOOK SIZE													
RANGE OF DEPTHS (FM)													

TABLE 31
(CONT'D)

AGE FREQUENCIES - COD - 10 - 1961

(FREQUENCIES IN %)

GEAR		HAND LINE (RESEARCH)					
CATCHES/LANDINGS		CATCHES					
MONTH		AUGUST					
COUNTRY		DENMARK (GREENLAND)					
TONNAGE		NK					
YEAR-CLASS	AGE	% FREQUENCY			MEAN LENGTH		
		08	99	TOT.	08	99	TOT.
1958	3	54	43	97	40.6	40.3	40.7
1957	4	22	43	65	55.0	49.3	51.2
1956	5	261	239	500	61.9	64.1	62.9
1955	6	33	11	44	71.3	68.0	70.5
1954	7	33	11	44	76.3	75.0	76.0
1953	8	54	33	87	77.0	81.3	78.9
1952	9	33	11	44	78.7	92.0	82.0
1951	10	22	22	44	81.5	83.0	82.3
1950	11	22	-	22	81.5	-	81.5
1949	12	-	11	11	-	92.0	92.0
1948	13	11	-	11	81.0	-	81.0
1947	14	22	11	33	81.0	104.0	88.7
TOTAL %		567	435	1002			
SERIAL NUMBERS					10		
NUMBER OF SAMPLES					-		
NUMBER OF FISH AGED					92		
MEAN AGE					6.1		
MEAN WEIGHT (KG)					2.9		
TOTAL WEIGHT LANDED (TONS)					-		
ESTIMATED NUMBER LANDED					-		
MESH OR HOOK SIZE					-		
RANGE OF DEPTHS (FM)					-		

TABLE 31
(CONT'D)

AGE FREQUENCIES - COD - ID - 1961

(FREQUENCIES IN ‰)

GEAR		HAND LINE, LONG LINE AND GREENLANDERS' (NK)											
CATCHES/LANDINGS		NK											
MONTH		AUGUST					NOVEMBER						
COUNTRY		DANMARK (GREENLAND)											
TONNAGE		NK											
YEAR-CLASS	AGE	‰/00 FREQUENCY			MEAN LENGTH			‰/00 FREQUENCY			MEAN LENGTH		
		00'	00'	TOT.	00'	00'	TOT.	00'	00'	TOT.	00'	00'	TOT.
1958	3	11	27	38	-	-	-	31	37	68	49.2	45.3	44.4
1957	4	280	341	621	-	-	-	191	333	591 ¹⁾	57.4	55.8	56.3
1956	5	93	66	159	-	-	-	68	74	142	65.7	62.6	64.1
1955	6	38	16	55	-	-	-	31	37	68	69.6	77.6	79.9
1954	7	5	16	22	-	-	-	19	19	37	72.3	79.7	79.0
1953	8	16	27	44	-	-	-	12	31	43	77.5	77.8	77.7
1952	9	11	5	16	-	-	-	12	6	19	80.0	86.0	82.0
1951	10	-	-	-	-	-	-	-	-	-	-	-	-
1950	11	16	16	33	-	-	-	-	49	49	-	82.1	82.1
1949	12	-	-	-	-	-	-	-	-	-	-	-	-
1948	13	-	5	5	-	-	-	-	-	-	-	-	-
1947	14	5	-	5	-	-	-	12	12	25	88.5	85.0	86.8
1946	15	-	-	-	-	-	-	-	-	-	-	-	-
1945	16	-	-	-	-	-	-	-	-	-	-	-	-
1944	17	-	-	-	-	-	-	-	-	-	-	-	-
1943	18	-	-	-	-	-	-	-	-	-	-	-	-
1942	19	-	-	-	-	-	-	6	6	12	89.0	100.0	94.5
1941	20	-	-	-	-	-	-	-	-	-	-	-	-
1940	21	-	-	-	-	-	-	-	6	6	-	114.0	114.0
TOTAL ‰/00		475	519	998	/			382	610	1000	/		
SERIAL NUMBERS		-	-	27				28					
NUMBER OF SAMPLES		-	-	-				-					
NUMBER OF FISH AGED		-	-	182				162					
MEAN AGE		-	-	4.9				5.4					
MEAN WEIGHT (KG)		-	-	2.2				-					
TOTAL WEIGHT LANDED (TONS)		-	-	-				-					
ESTIMATED NUMBER LANDED		-	-	-				-					
MESH OR HOOK SIZE		-	-	-	-								
RANGE OF DEPTHS (FM)		-	-	-	-								

1) ONE NOT SEXED

TABLE 32

AGE FREQUENCIES - COD - IE - 1961

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL											
		(COMMERCIAL) 1)						(RESEARCH)					
CATCHES/LANDINGS		CATCHES											
MONTH		APRIL						MAY					
COUNTRY		ICELAND						NORWAY					
TONNAGE		NK											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1957	4	-	-	-	-	-	-	4	14	18	47.0	45.7	46.0
1956	5	-	-	20	-	-	59.8	147	129	276	57.4	57.2	57.9
1955	6	-	-	149	-	-	69.5	60	55	115	66.8	70.2	68.4
1954	7	-	-	153	-	-	73.6	60	55	115	72.6	74.2	73.4
1953	8	-	-	383	-	-	77.0	129	161	290	76.9	78.1	77.6
1952	9	-	-	107	-	-	75.7	18	32	50	78.2	78.9	78.6
1951	10	-	-	71	-	-	83.5	5	32	37	84.0	86.9	86.0
1950	11	-	-	82	-	-	86.6	14	32	46	88.7	86.4	87.1
1949	12	-	-	10	-	-	89.5	5	-	5	84.0	-	84.0
1948	13	-	-	5	-	-	86.0	-	14	14	-	86.9	86.9
1947	14	-	-	15	-	-	82.7	9	14	23	84.0	85.9	84.8
1946	15	-	-	-	-	-	-	5	-	5	84.0	-	84.0
1945	16	-	-	-	-	-	-	5	-	5	84.0	-	84.0
1944	17	-	-	-	-	-	-	-	-	-	-	-	-
1943	18	-	-	10	-	-	95.0	-	-	-	-	-	-
TOTAL ‰		-	-	999	-	-	-	461	598	999	-	-	-
SERIAL NUMBERS		-	-	-	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES		-	-	-	-	-	-	-	-	2	-	-	-
NUMBER OF FISH AGED		-	-	196	-	-	-	100	117	217	-	-	-
MEAN AGE		-	-	-	-	-	-	7.07	7.51	7.31	-	-	-
MEAN WEIGHT (KG)		-	-	-	-	-	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)		-	-	-	-	-	-	-	-	-	-	-	-
ESTIMATED NUMBER LANDED		-	-	-	-	-	-	-	-	-	-	-	-
MESH OR HOOK SIZE		-	-	-	-	-	-	-	-	-	-	-	-
RANGE OF DEPTHS (FM)		-	-	-	-	-	-	-	-	-	-	-	-

1) FREDRIKSHAAB

TABLE 33

AGE FREQUENCIES - COD - IF - 1961

(FREQUENCIES IN %/00)

GEAR		OTTER TRAWL (COMMERCIAL)											
CATCHES/LANDINGS		NK						CATCHES ¹⁾					
MONTH		MAY						DECEMBER					
COUNTRY		DENMARK (FAROE)						ICELAND					
TONNAGE		NK											
		955			955			955			955		
YEAR-CLASS	AGE	%/00 FREQUENCY			MEAN LENGTH			%/00 FREQUENCY			MEAN LENGTH		
		00'	99'	TOT.	00'	99'	TOT.	00'	99'	TOT.	00'	99'	TOT.
1958	3	2	-	2	39.5	-	39.5	-	-	5	-	-	47.0
1957	4	10	13	23	45.3	48.0	46.8	-	-	30	-	-	55.5
1956	5	322	263	585	53.7	54.4	54.0	-	-	325	-	-	62.9
1955	6	23	31	54	61.0	62.4	61.8	-	-	46	-	-	72.7
1954	7	15	17	32	64.8	68.2	66.7	-	-	36	-	-	79.1
1953	8	67	79	146	76.3	74.8	75.0	-	-	360	-	-	81.5
1952	9	21	27	48	78.3	78.7	78.5	-	-	76	-	-	83.2
1951	10	10	6	16	79.5	73.5	77.3	-	-	5	-	-	86.0
1950	11	17	13	30	76.0	82.8	78.9	-	-	76	-	-	83.8
1949	12	10	4	14	81.3	79.0	80.6	-	-	5	-	-	88.0
1948	13	6	17	23	79.2	85.5	83.8	-	-	-	-	-	-
1947	14	13	6	19	82.3	85.5	83.4	-	-	30	-	-	80.3
1946	15	4	-	4	77.5	-	77.5	-	-	-	-	-	-
1945	16	2	-	2	89.5	-	89.5	-	-	5	-	-	80.0
1944	17	-	-	-	-	-	-	-	-	-	-	-	-
1943	18	-	2	2	-	84.5	84.5	-	-	-	-	-	-
TOTAL %/00		522	478	1000						999			
SERIAL NUMBERS		-	-	-						-			
NUMBER OF SAMPLES		-	-	3						-			
NUMBER OF FISH AGED		251	228	479						197			
MEAN AGE		6.6	6.4	6.5						-			
MEAN WEIGHT (KG)		-	-	-						-			
TOTAL WEIGHT LANDED (TONS)		-	-	-						-			
ESTIMATED NUMBER LANDED		-	-	-						-			
MESH OR HOOK SIZE		-	-	-						-			
RANGE OF DEPTHS (FM)		-	-	75-90						-			

1) CAPE FARVEL

TABLE 33
(CONT'D)

AGE FREQUENCIES - COD - IF - 1961

(FREQUENCIES IN %/00)

GEAR		BOTTOM LONG LINE (RESEARCH)						HAND LINE (NK)					
CATCHES/LANDINGS		CATCHES						NK					
MONTH		APRIL						AUGUST					
COUNTRY		NORWAY						DENMARK (GREENLAND)					
TONNAGE		NK						NK					
YEAR-CLASS	AGE	%00 FREQUENCY			MEAN LENGTH			%00 FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1957	4	6	-	6	48.0	-	48.0	8	8	16	51.9	49.9	49.8
1956	5	51	25	76	57.0	51.2	55.0	363	307	673 ¹⁾	56.9	56.3	56.4
1955	6	45	57	102	65.7	67.8	66.9	51	34	85	61.9	63.6	62.6
1954	7	25	83	108	67.8	71.5	70.6	14	17	31	62.8	67.3	65.9
1953	8	64	255	319	74.4	76.0	75.7	59	54	115 ¹⁾	71.7	72.4	70.2
1952	9	6	64	70	77.0	81.0	80.6	8	34	42	74.3	76.2	75.8
1951	10	-	57	57	-	82.0	82.0	8	8	16	78.7	78.7	78.7
1950	11	6	83	89	83.0	84.6	84.5	11	6	17	78.0	85.0	80.9
1949	12	6	-	6	86.0	-	86.0	-	-	-	-	-	-
1948	13	19	13	32	75.0	80.5	77.2	-	-	-	-	-	-
1947	14	6	64	70	91.0	82.8	83.5	9	-	9	69.0	-	69.0
1946	15	-	13	13	-	88.5	88.5	-	-	-	-	-	-
1945	16	6	-	6	81.0	-	81.0	-	-	-	-	-	-
1944	17	6	19	25	86.0	87.7	87.2	-	-	-	-	-	-
1943	18	-	13	13	-	92.0	92.0	-	-	-	-	-	-
1942	19	-	-	-	-	-	-	-	-	-	-	-	-
1941	20	-	6	6	-	96.0	96.0	-	-	-	-	-	-
TOTAL %00		246	752	998				525	468	998			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	1				-	-	-			
NUMBER OF FISH AGED		39	118	157				-	-	355			
MEAN AGE		8.00	9.42	9.06				-	-	5.9			
MEAN WEIGHT (KG)		-	-	-				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH OR HOOK SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)		-	-	-				-	-	-			

1) TWO NOT SEXED

TABLE 33
(CONT'D)

AGE FREQUENCIES - COD - IF - 1961

(FREQUENCIES IN ‰)

GEAR		HAND LINE, LONG LINE AND GREENLANDERS' (NK)																	
CATCHES/LANDINGS		NK																	
MONTH		JUNE						JULY											
COUNTRY		DENMARK (GREENLAND)																	
TONNAGE		NK																	
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH								
		08	99	TOT.	08	99	TOT.	08	99	TOT.	08	99	TOT.						
1957	4	15	15	30	49.7	52.0	50.8	30	20	50	51.0	54.9	52.9						
1956	5	365	435	800	58.1	57.9	58.0	465	409	874	58.0	57.4	57.7						
1955	6	55	90	145	62.8	64.8	64.1	20	25	45	63.0	62.8	62.9						
1954	7	5	5	10	73.0	79.0	76.0	-	-	-	-	-	-						
1953	8	10	-	10	78.0	-	78.0	15	10	25	78.7	75.0	77.2						
1952	9	-	-	-	-	-	-	-	-	-	-	-	-						
1951	10	-	-	-	-	-	-	-	-	-	-	-	-						
1950	11	-	-	-	-	-	-	-	5	5	-	97.0	97.0						
1949	12	-	-	-	-	-	-	-	-	-	-	-	-						
1948	13	-	-	-	-	-	-	-	-	-	-	-	-						
1947	14	5	-	5	83.0	-	83.0	-	-	-	-	-	-						
TOTAL ‰		455	545	1000	/			590	469	999	/								
SERIAL NUMBERS		-	-	29				-						-	-	30	-		
NUMBER OF SAMPLES		-	-	-				-						-	-	-	-		
NUMBER OF FISH AGED		-	-	200				-						-	-	198	-		
MEAN AGE		-	-	5.2				-						-	-	5.1	-		
MEAN WEIGHT (KG)		-	-	1.9				-						-	-	1.6	-		
TOTAL WEIGHT LANDED (TONS)		-	-	-				-						-	-	-	-		
ESTIMATED NUMBER LANDED		-	-	-				-						-	-	-	-		
MESH OR HOOK SIZE		-	-	-				-						-	-	-	-		
RANGE OF DEPTHS (FM)		-	-	-				-						-	-	-	-		

TABLE 33
(CONT'D)

AGE FREQUENCIES - COD - IF - 1961

(FREQUENCIES IN ‰)

GEAR		NK 1)					
CATCHES/LANDINGS		NK					
MONTH		AUGUST					
COUNTRY		DENMARK (GREENLAND)					
TONNAGE		NK					
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH		
		00'	00'	TOT.	00'	00'	TOT.
1957	4	5	-	5	47.0	-	47.0
1956	5	410	340	750	58.1	57.6	57.9
1955	6	25	45	70	64.8	64.2	64.4
1954	7	15	5	20	67.7	70.0	68.9
1953	8	50	55	105	73.2	74.0	73.6
1952	9	15	5	20	76.3	73.0	75.5
1951	10	5	-	5	80.0	-	80.0
1950	11	5	5	10	65.0	74.0	69.5
1949	12	-	5	5	-	89.0	89.0
1948	13	5	-	5	78.0	-	78.0
1947	14	-	-	-	-	-	-
1946	15	-	-	-	-	-	-
1945	16	5	-	5	64.0	-	64.0
TOTAL ‰		540	460	1000			
SERIAL NUMBERS					31		
NUMBER OF SAMPLES					-		
NUMBER OF FISH AGED					200		
MEAN AGE					5.7		
MEAN WEIGHT (KG)					2.2		
TOTAL WEIGHT LANDED (TONS)					-		
ESTIMATED NUMBER LANDED					-		
MESH OR HOOK SIZE					-		
RANGE OF DEPTHS (FM)					-		

1) GREENLANDERS'

TABLE 34

AGE FREQUENCIES - COD - 2J - 1961

(FREQUENCIES IN 0/00)

GEAR		OTTER TRAWL (NK)											
CATCHES/LANDINGS		CATCHES											
MONTH		FEBRUARY						MARCH					
COUNTRY		U. S. S. R.											
TONNAGE		1800											
YEAR-CLASS	AGE	0/00 FREQUENCY			MEAN LENGTH			0/00 FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1957	4	7	7	14	41.5	35.5	38.5	-	-	-	-	-	-
1956	5	27	20	47	44.9	44.5	45.8	-	-	-	-	-	-
1955	6	67	47	114	48.4	48.6	48.9	20	10	30	61.0	67.0	63.0
1954	7	80	80	160	54.4	55.8	54.5	10	51	61	58.0	64.6	63.5
1953	8	53	90	143	56.7	58.3	57.7	10	101	111	61.0	63.7	63.5
1952	9	50	47	97	59.8	61.9	60.8	30	61	91	62.0	65.3	64.3
1951	10	37	56	93	56.6	63.7	60.9	71	101	172	62.3	64.6	63.7
1950	11	33	37	70	64.0	65.9	65.0	20	51	71	65.5	68.8	67.9
1949	12	33	27	60	63.1	68.5	65.5	61	71	132	65.5	67.0	66.3
1948	13	40	30	70	64.0	68.3	65.9	61	40	101	66.0	66.2	66.1
1947	14	20	33	53	66.5	70.3	68.9	40	30	70	64.0	68.0	65.7
1946	15	7	30	37	62.5	69.7	68.4	30	81	111	66.0	67.4	67.0
1945	16	13	13	26	67.0	67.0	67.0	20	20	40	65.5	80.5	73.0
1944	17	3	3	6	70.0	61.0	65.5	10	-	10	61.0	-	61.0
1943	18	7	-	7	70.0	-	70.0	-	-	-	-	-	-
1942	19	3	-	3	64.0	-	64.0	-	-	-	-	-	-
TOTAL 0/00		480	520	1000				383	617	1000			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	1				-	-	1			
NUMBER OF FISH AGED		144	156	300				38	61	99			
MEAN AGE		9.4	9.6	9.5				11.7	10.8	11.2			
MEAN WEIGHT (KG)		2.1	2.4	2.2				2.6	2.9	2.8			
TOTAL WEIGHT LANDED (TONS)		-	-	26161				-	-	12353			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH OR HOOK SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)		-	-	175-180				-	-	172-175			

TABLE 34
(CONT'D)

AGE FREQUENCIES - COD - 2J - 1961

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (NK)											
CATCHES/LANDINGS		CATCHES											
MONTH		APRIL						JULY					
COUNTRY		U. S. S. R.											
TONNAGE		1800											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	00	TOT.	00	00	TOT.	00	00	TOT.	00	00	TOT.
1957	4	8	16	24	34.0	37.0	36.0	7	7	14	41.5	44.5	43.0
1956	5	40	27	67	46.9	43.9	45.6	33	36	69	46.0	46.0	46.0
1955	6	83	128	211	48.3	49.4	48.9	87	110	197	49.2	50.3	49.8
1954	7	86	173	259	49.4	49.8	49.7	126	114	240	52.5	53.2	52.8
1953	8	35	86	121	52.7	53.0	52.9	100	114	214	54.7	55.6	55.2
1952	9	43	82	125	53.6	55.6	54.9	40	70	110	55.7	57.7	57.7
1951	10	43	37	80	56.1	59.0	57.4	27	33	60	58.0	59.2	58.6
1950	11	15	12	27	58.0	58.0	59.3	10	30	40	60.0	62.3	61.7
1949	12	4	27	31	64.0	59.2	60.2	7	7	14	64.0	64.0	64.0
1948	13	4	23	27	58.0	63.5	62.7	10	16	26	64.0	-	63.6
1947	14	-	12	12	-	67.0	67.0	-	3	3	-	76.0	76.0
1946	15	-	-	-	-	-	-	-	7	7	-	67.0	67.0
1945	16	-	8	8	-	64.0	64.0	-	3	3	-	73.0	73.0
1944	17	4	-	4	97.0	-	97.0	3	-	3	79.0	-	79.0
1943	18	-	-	-	-	-	-	-	-	-	-	-	-
1942	19	-	-	-	-	-	-	-	-	-	-	-	-
1941	20	-	-	-	-	-	-	-	-	-	-	-	-
1940	21	-	-	-	-	-	-	-	-	-	-	-	-
1939	22	-	4	4	-	82.0	82.0	-	-	-	-	-	-
TOTAL ‰		365	635	1000				450	550	1000			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	1				-	-	1			
NUMBER OF FISH AGED		93	162	255				195	165	300			
MEAN AGE		7.6	8.2	7.9				7.5	7.9	7.8			
MEAN WEIGHT (KG)		1.3	1.3	1.3				1.4	1.5	1.5			
TOTAL WEIGHT LANDED (TONS)		-	-	7369				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH OR HOOK SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)		-	-	170				-	-	148-150			

TABLE 34
(CONT'D)

AGE FREQUENCIES - COD - 2J - 1961

(FREQUENCIES IN 0/00)

GEAR		NK (COMMERCIAL)					
CATCHES/LANDINGS		NK					
MONTH		MAY/JUNE-SEPTEMBER/OCTOBER					
COUNTRY		SPAIN					
TONNAGE		NK					
YEAR-CLASS	AGE	0/00 FREQUENCY			MEAN LENGTH		
		00	00	TOT.	00	00	TOT.
1959	2	-	9	9	-	38.0	38.0
1958	3	18	61	79	46.3	44.0	44.5
1957	4	31	95	126	52.9	48.9	49.8
1956	5	55	113	168	54.0	54.5	54.3
1955	6	55	119	174	56.2	56.8	56.6
1954	7	31	73	104	60.7	57.5	58.4
1953	8	21	95	116	58.4	60.6	60.2
1952	9	25	37	62	64.8	59.4	61.5
1951	10	25	31	56	61.2	64.6	63.0
1950	11	18	28	46	63.1	66.0	64.8
1949	12	3	25	28	67.0	64.2	64.7
1948	13	3	15	18	68.0	70.4	70.0
1947	14	3	6	9	73.0	62.5	66.0
1946	15	-	-	-	-	-	-
1945	16	-	-	-	-	-	-
1944	17	3	-	3	54.0	-	54.0
TOTAL 0/00		291	707	998			
SERIAL NUMBERS		-	-	-			
NUMBER OF SAMPLES		-	-	-			
NUMBER OF FISH AGED		-	-	-			
MEAN AGE		-	-	-			
MEAN WEIGHT (KG)		-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-			
ESTIMATED NUMBER LANDED		-	-	-			
MESH OR HOOK SIZE		-	-	-			
RANGE OF DEPTHS (FM)		-	-	-			

TABLE 35

AGE FREQUENCIES - COD - 3K - 1961

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (NK)											
CATCHES/LANDINGS		CATCHES											
MONTH		JANUARY						JUNE					
COUNTRY		U. S. S. R.						PORTUGAL					
TONNAGE		1800						1264					
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1957	4	14	14	28	38.5	37.7	38.1	-	10	10	-	45.0	45.0
1956	5	34	31	65	48.1	46.3	47.3	40	61	101	51.8	48.3	50.0
1955	6	61	55	116	54.5	57.0	55.7	20	30	50	59.0	57.7	58.3
1954	7	51	61	112	55.2	61.2	58.2	20	71	91	63.5	54.4	58.9
1953	8	89	61	144	60.9	65.2	62.1	131	131	262	57.8	61.8	59.8
1952	9	82	41	123	64.7	64.0	64.4	81	71	152	57.3	61.0	59.1
1951	10	37	31	68	66.4	70.0	68.0	61	51	112	59.8	59.6	59.7
1950	11	51	26	77	64.2	67.0	65.2	30	51	81	57.7	64.4	61.0
1949	12	58	21	79	70.7	71.0	70.8	10	40	50	62.0	66.3	62.5
1948	13	41	14	55	72.5	71.5	72.2	-	20	20	-	61.5	61.5
1947	14	37	26	63	77.1	79.0	77.8	-	20	20	-	67.0	67.0
1946	15	23	21	44	77.8	72.0	76.7	10	20	30	70.0	88.0	79.0
1945	16	14	-	14	74.5	-	74.5	-	10	10	-	71.0	71.0
1944	17	3	-	3	91.0	-	91.0	-	10	10	-	64.0	64.0
1943	18	3	-	3	91.0	-	91.0	-	-	-	-	-	-
1942	19	3	-	3	88.0	-	88.0	-	-	-	-	-	-
1941	20	-	-	-	-	-	-	-	-	-	-	-	-
1940	21	-	-	-	-	-	-	-	-	-	-	-	-
1939	22	3	-	3	85.0	-	85.0	-	-	-	-	-	-
TOTAL ‰		598	402	1000				403	596	999			
SERIAL NUMBERS		-	-	-				-	-	30			
NUMBER OF SAMPLES		1	1	1				-	-	1			
NUMBER OF FISH AGED		179	115	294				-	-	99			
MEAN AGE		9.8	8.9	9.5				-	-	8.9			
MEAN WEIGHT (KG)		2.7	2.6	2.7				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	170				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH OR HOOK SIZE		-	-	-				-	-	114 ¹⁾			
RANGE OF DEPTHS (FM)		-	-	164				-	-	120			

1) MESH SIZE - (MM)

TABLE 35
(CONT'D)

AGE FREQUENCIES - COD - 3K - 1961

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (NK)											
CATCHES/LANDINGS		CATCHES											
MONTH		JULY						AUGUST					
COUNTRY		PORTUGAL											
TONNAGE		1264											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1957	4	15	30	45	41.0	45.5	43.2	23	20	43	44.3	43.0	43.6
1956	5	65	51	116	48.5	51.6	50.1	70	67	137	50.4	52.5	51.4
1955	6	60	76	136	55.6	56.2	55.9	74	117	191	57.7	57.6	57.6
1954	7	65	91	156	59.5	59.3	59.4	23	44	67	56.7	59.2	57.9
1953	8	35	66	101	61.1	61.6	61.4	44	97	141	60.0	63.3	61.6
1952	9	40	25	65	63.6	62.0	62.8	33	70	103	59.1	63.8	61.4
1951	10	20	45	65	64.0	64.8	64.4	13	44	57	65.3	67.3	66.3
1950	11	20	50	70	61.8	64.5	63.2	20	44	64	61.8	65.8	63.8
1949	12	50	35	85	61.8	65.7	63.7	17	54	71	63.0	68.2	65.6
1948	13	20	40	60	67.0	59.3	63.2	10	27	37	66.3	67.8	67.1
1947	14	20	15	35	67.3	65.0	66.1	9	13	16	65.0	67.0	66.0
1946	15	20	15	35	69.3	73.3	71.3	27	30	57	66.0	68.7	67.6
1945	16	5	15	20	70.0	67.3	68.6	3	7	10	64.0	75.0	69.5
1944	17	-	10	10	-	73.0	73.0	-	-	-	-	-	-
1943	18	-	-	-	-	-	-	-	7	7	-	74.0	74.0
TOTAL ‰		435	564	999	/			360	641	1001	/		
SERIAL NUMBERS		-	-	32-33				-	-	36-38-39			
NUMBER OF SAMPLES		-	-	2				-	-	3			
NUMBER OF FISH AGED		-	-	199				-	-	299			
MEAN AGE		-	-	8.8				-	-	8.5			
MEAN WEIGHT (KG)		-	-	-				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH OR HOOK SIZE		-	-	114 ¹⁾				-	-	114 ¹⁾			
RANGE OF DEPTHS (FM)		-	-	150				-	-	-125-135			

1) MESH SIZE - (MM)

TABLE 35
(CONT'D)

AGE FREQUENCIES - COD - 3K - 1961

(FREQUENCIES IN %/00)

GEAR		OTTER TRAWL (NK)											
CATCHES/LANDINGS		CATCHES											
MONTH		OCTOBER						NOVEMBER					
COUNTRY		PORTUGAL											
TONNAGE		1264											
YEAR-CLASS	AGE	%00 FREQUENCY			MEAN LENGTH			%00 FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1958	3	-	-	-	-	-	-	2	2	4	40.0	46.0	43.0
1957	4	10	-	10	48.0	-	48.0	92	72	164	45.5	45.6	45.6
1956	5	50	30	80	50.6	56.0	53.3	158	118	276	52.4	52.3	52.4
1955	6	80	30	110	58.0	56.3	57.2	94	78	172	56.7	57.2	57.0
1954	7	80	40	120	60.1	59.3	59.7	58	34	92	61.4	60.8	61.1
1953	8	50	50	100	64.4	64.8	64.9	36	32	68	60.9	64.4	62.6
1952	9	90	110	200	68.6	66.8	67.7	48	34	82	62.8	64.7	63.7
1951	10	80	40	120	67.5	67.5	67.5	8	18	26	61.3	66.0	63.7
1950	11	20	30	50	67.5	72.3	69.9	14	18	32	62.6	66.1	64.3
1949	12	10	20	30	70.0	69.0	69.5	16	24	40	64.5	67.0	65.7
1948	13	20	30	50	63.0	71.3	67.1	4	2	6	65.5	64.0	64.7
1947	14	20	30	50	69.5	69.0	69.3	10	12	22	71.0	69.8	70.4
1946	15	20	10	30	63.0	68.0	65.5	6	6	12	72.0	73.3	72.6
1945	16	20	10	30	65.2	72.0	68.6	-	2	2	-	70.0	70.0
1944	17	-	10	10	-	102.0	102.0	-	2	2	-	81.0	81.0
1943	18	10	-	10	-	76.0	76.0	-	-	-	-	-	-
TOTAL %00		560	440	1000				546	454	1000			
SERIAL NUMBERS		-	-	43				44-48-50-51-54					
NUMBER OF SAMPLES		-	-	1				-			5		
NUMBER OF FISH AGED		-	-	100				-			500		
MEAN AGE		-	-	9.3				-			6.7		
MEAN WEIGHT (KG)		-	-	-				-			-		
TOTAL WEIGHT LANDED (TONS)		-	-	-				-			-		
ESTIMATED NUMBER LANDED		-	-	-				-			-		
MESH SIZE (MM)		-	-	114				-			114		
RANGE OF DEPTHS (FM)		-	-	94				-			90-175		

TABLE 35
(CONT'D)

AGE FREQUENCIES - COD - 3K - 1961

(FREQUENCIES IN %/00)

GEAR		NK (COMMERCIAL)					
CATCHES/LANDINGS		NK					
MONTH		JUNE, AUGUST, NOVEMBER					
COUNTRY		SPAIN					
TONNAGE		NK					
YEAR-CLASS	AGE	%/00 FREQUENCY			MEAN LENGTH		
		00	10	TOT.	00	10	TOT.
1958	3	12	25	37	45.0	40.0	41.6
1957	4	49	111	160	53.0	53.7	53.4
1956	5	49	135	184	56.2	58.0	57.5
1955	6	86	98	184	58.2	63.3	60.9
1954	7	12	37	49	66.0	61.3	62.4
1953	8	49	62	111	60.2	59.4	59.7
1952	9	-	25	25	-	68.5	68.5
1951	10	25	74	99	57.0	64.5	62.6
1950	11	37	62	99	63.0	70.0	67.3
1949	12	-	37	37	-	72.0	72.0
1948	13	-	-	-	-	-	-
1947	14	12	-	12	68.0	-	68.0
TOTAL %/00		331	666	997			
SERIAL NUMBERS		-	-	-			
NUMBER OF SAMPLES		-	-	-			
NUMBER OF FISH AGED		-	-	-			
MEAN AGE		-	-	-			
MEAN WEIGHT (KG)		-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-			
ESTIMATED NUMBER LANDED		-	-	-			
MESH OR HOOK SIZE		-	-	-			
RANGE OF DEPTHS (FM)		-	-	-			

TABLE 36

AGE FREQUENCIES - COD - 3L - 1961

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (NK)											
CATCHES/LANDINGS		CATCHES											
MONTH		APRIL						MAY					
COUNTRY		PORTUGAL											
TONNAGE		1254											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1958	3	-	5	5	-	41.0	41.0	-	3	3	-	44.0	44.0
1957	4	15	51	66	49.6	49.8	46.7	27	17	44	45.9	46.0	46.0
1956	5	66	81	147	55.5	57.7	56.6	83	127	210	54.5	54.5	54.5
1955	6	207	116	323	60.4	59.9	60.1	213	210	423	61.0	59.6	60.3
1954	7	61	46	107	67.0	64.1	65.6	27	63	90	63.9	66.1	65.0
1953	8	51	46	97	70.6	70.5	70.5	50	47	97	70.0	69.8	69.9
1952	9	46	30	76	76.0	72.0	74.0	30	43	73	72.4	75.5	74.0
1951	10	40	15	55	79.1	78.7	78.9	10	7	17	79.3	73.0	76.2
1950	11	40	10	50	73.6	80.5	77.1	10	7	17	79.7	72.0	75.9
1949	12	15	-	15	81.0	-	81.0	13	7	20	82.2	77.0	78.6
1948	13	25	25	50	88.2	100.1	94.2	3	-	3	95.0	-	95.0
1947	14	-	-	-	-	-	-	-	3	3	-	82.0	82.0
1946	15	5	5	10	90.0	105.0	97.5	-	-	-	-	-	-
TOTAL ‰		571	430	1001	/			466	534	1000	/		
SERIAL NUMBERS		-	-	21-22				-	-	24-28-29			
NUMBER OF SAMPLES		-	-	2				-	-	3			
NUMBER OF FISH AGED		-	-	198				-	-	300			
MEAN AGE		-	-	7.2				-	-	6.5			
MEAN WEIGHT (KG)		-	-	-				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH SIZE (MM)		-	-	114				-	-	114			
RANGE OF DEPTHS (FM)		-	-	65-80				-	-	131-160			

TABLE 36
(CONT'D)

AGE FREQUENCIES - COD - 3L - 1961

(FREQUENCIES IN 0/00)

GEAR		NK (COMMERCIAL)					
CATCHES/LANDINGS		NK					
MONTH		APRIL/MAY, AUGUST					
COUNTRY		SPAIN					
TONNAGE		NK					
YEAR-CLASS	AGE	0/00 FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.
1959	2	-	13	13	-	38.6	38.6
1958	3	4	63	67	47.0	48.2	48.1
1957	4	29	105	134	49.8	53.3	52.5
1956	5	55	349	404	58.8	57.2	57.4
1955	6	71	160	231	62.3	61.6	61.8
1954	7	13	29	42	59.6	64.7	63.2
1953	8	-	55	55	-	74.3	74.3
1952	9	8	8	16	74.5	82.5	78.5
1951	10	8	8	16	89.5	67.0	78.2
1950	11	-	13	13	-	75.3	75.3
1949	12	-	8	8	-	75.5	75.5
1948	13	-	4	4	-	73.0	73.0
1947	14	-	-	-	-	-	-
1946	15	-	-	-	-	-	-
1945	16	-	-	-	-	-	-
1944	17	-	-	-	-	-	-
1943	18	-	-	-	-	-	-
1942	19	-	-	-	-	-	-
1941	20	-	4	4	-	130.0	130.0
TOTAL 0/00		188	819	1007			
SERIAL NUMBERS		-	-	-			
NUMBER OF SAMPLES		-	-	-			
NUMBER OF FISH AGED		-	-	-			
MEAN AGE		-	-	-			
MEAN WEIGHT (KG)		-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-			
ESTIMATED NUMBER LANDED		-	-	-			
MESH OR HOOK SIZE		-	-	-			
RANGE OF DEPTHS (FM)		-	-	-			

TABLE 97

AGE FREQUENCIES - COD - 34 - 1961

(FREQUENCIES IN 0/00)

GEAR		OTTER TRAWL (NK)																
CATCHES/LANDINGS		CATCHES																
MONTH		MARCH						OCTOBER										
COUNTRY		U. S. S. R.																
TONNAGE		1800																
YEAR-CLASS	AGE	0/00 FREQUENCY			MEAN LENGTH			0/00 FREQUENCY			MEAN LENGTH							
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.					
1960	1	5	11	16	14.5	14.1	14.25	-	-	-	-	-	-					
1959	2	3	5	8	20.5	20.5	20.5	-	-	-	-	-	-					
1958	3	32	24	56	31.9	32.7	32.2	37	30	67	39.7	39.3	39.55					
1957	4	38	41	79	42.6	42.8	42.7	156	150	306	45.9	46.2	46.1					
1956	5	53	59	112	47.05	49.5	48.8	117	84	201	52.9	51.4	52.2					
1955	6	30	12	42	49.5	55.0	51.1	27	27	54	55.4	57.6	56.5					
1954	7	216	102	318	57.2	59.0	57.7	97	106	203	60.3	62.1	61.6					
1953	8	165	89	254	57.8	60.02	58.6	63	77	140	61.15	61.3	61.2					
1952	9	19	11	30	57.4	62.9	59.4	7	3	10	62.5	61.0	62.0					
1951	10	16	8	24	61.2	60.5	61.0	-	10	10	-	67.0	67.0					
1950	11	13	7	20	64.9	68.8	66.2	-	3	3	-	67.0	67.0					
1949	12	14	16	30	67.6	71.5	69.6	3	3	6	73.0	58.0	65.5					
1948	13	4	4	8	67.0	68.9	67.6	-	-	-	-	-	-					
1947	14	-	3	3	-	71.5	71.5	-	-	-	-	-	-					
TOTAL 0/00		608	392	1000	/			507	493	1000	/							
SERIAL NUMBERS		-	-	-				-	-	-				-	-	-	-	-
NUMBER OF SAMPLES		4	4	4				1	1	1				1	1	1	1	1
NUMBER OF FISH AGED		461	296	757				152	148	300				152	148	300	152	148
MEAN AGE		7.2	7.1	7.2				5.7	5.9	5.8				5.7	5.9	5.8	5.7	5.9
MEAN WEIGHT (KG)		1.5	1.7	1.6				1.6	1.8	1.7				1.6	1.8	1.7	1.6	1.8
TOTAL WEIGHT LANDED (TONS)		-	-	5436				-	-	196				-	-	196	-	-
ESTIMATED NUMBER LANDED		-	-	-				-	-	-				-	-	-	-	-
MESH OR HOOK SIZE		-	-	-				-	-	-				-	-	-	-	-
RANGE OF DEPTHS (FM)		-	-	137-235				-	-	118				-	-	118	-	-

TABLE 38

AGE FREQUENCIES - COB - 3PN - 1961

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (RESEARCH)					
CATCHES/LANDINGS		CATCHES					
MONTH		MARCH					
COUNTRY		FRANCE					
TONNAGE		1469					
YEAR-CLASS	AGE	‰ FREQUENCIES			MEAN LENGTH		
		00	01	TOT.	00	01	TOT.
1958	3	-	-	8	-	-	38.5
1957	4	-	-	20	-	-	46.2
1956	5	-	-	146	-	-	51.6
1955	6	-	-	193	-	-	54.6
1954	7	-	-	232	-	-	61.0
1953	8	-	-	161	-	-	66.2
1952	9	-	-	102	-	-	70.1
1951	10	-	-	83	-	-	71.0
1950	11	-	-	27	-	-	78.6
1949	12	-	-	8	-	-	94.0
1948	13	-	-	8	-	-	95.5
1947	14	-	-	4	-	-	73.0
1946	15	-	-	4	-	-	85.0
1945	16	-	-	-	-	-	-
1944	17	-	-	-	-	-	-
1943	18	-	-	-	-	-	-
1942	19	-	-	4	-	-	125.0
TOTAL ‰		-	-	1000	-	-	-
SERIAL NUMBERS		-	-	2	-	-	-
NUMBER OF SAMPLES		-	-	6	-	-	-
NUMBER OF FISH AGED		-	-	254	-	-	-
MEAN AGE		-	-	7.3	-	-	-
MEAN WEIGHT (KG)		-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)		-	-	-	-	-	-
ESTIMATED NUMBER LANDED		-	-	-	-	-	-
MESH SIZE (MM)		-	-	120	-	-	-
RANGE OF DEPTHS (FM)		-	-	98-109	-	-	-

TABLE 38
(CONT'D)

AGE FREQUENCIES - COD - 3PN - 1961

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (NK)											
CATCHES/LANDINGS		CATCHES											
MONTH		FEBRUARY					MARCH						
COUNTRY		PORTUGAL											
TONNAGE		1264											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1958	3	-	3	3	-	44.0	44.0	-	-	-	-	-	-
1957	4	7	13	20	48.5	46.3	47.4	17	20	37	47.0	44.8	45.9
1956	5	93	63	156	50.8	52.7	51.7	114	104	218	49.3	49.7	49.5
1955	6	137	103	240	55.3	55.1	55.2	144	164	308	53.3	55.5	54.4
1954	7	127	97	224	58.6	58.7	58.6	74	60	134	58.4	60.5	59.4
1953	8	70	67	137	62.5	65.8	64.1	50	57	107	66.6	65.4	66.0
1952	9	30	33	63	65.1	64.9	65.0	37	34	71	66.9	66.7	66.8
1951	10	30	30	60	65.1	69.1	67.1	17	44	61	65.4	67.1	66.3
1950	11	23	20	43	68.1	70.2	69.1	7	10	17	67.0	79.3	73.2
1949	12	7	20	27	74.0	68.3	71.1	10	13	23	71.0	73.5	72.3
1948	13	7	3	10	72.0	73.0	72.5	7	10	17	89.5	82.7	86.1
1947	14	-	7	7	-	78.5	78.5	3	-	3	105.0	-	105.0
1946	15	3	3	6	72.0	79.0	75.5	-	3	3	-	92.0	92.0
1945	16	-	-	-	-	-	-	-	-	-	-	-	-
1944	17	-	-	-	-	-	-	-	-	-	-	-	-
1943	18	-	-	-	-	-	-	-	-	-	-	-	-
1942	19	-	-	-	-	-	-	-	-	-	-	-	-
1941	20	3	-	3	82.0	-	82.0	-	-	-	-	-	-
TOTAL ‰		537	462	999				480	519	999			
SERIAL NUMBERS		-	-	1-3-5				-	-	6-9-11			
NUMBER OF SAMPLES		-	-	3				-	-	3			
NUMBER OF FISH AGED		-	-	300				-	-	299			
MEAN AGE		-	-	7.3				-	-	6.9			
MEAN WEIGHT (KG)		-	-	-				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH SIZE (MM)		-	-	114				-	-	114			
RANGE OF DEPTHS (FM)		-	-	85-134				-	-	120-145			

TABLE 39

AGE FREQUENCIES - COD - 3Ps - 1961

(FREQUENCIES IN %/00)

GEAR		OTTER TRAWL (RESEARCH)											
CATCHES/LANDINGS		CATCHES											
MONTH		APRIL						AUGUST					
COUNTRY		FRANCE											
TONNAGE		1469						(NK)					
YEAR-CLASS	AGE	%00 FREQUENCY			MEAN LENGTH			%00 FREQUENCY			MEAN LENGTH		
		00	YY	TOT.	00	YY	TOT.	00	YY	TOT.	00	YY	TOT.
1957	4	-	-	45	-	-	40.7	-	-	65	-	-	56.20
1956	5	-	-	326	-	-	59.4	-	-	234	-	-	62.50
1955	6	-	-	360	-	-	60.1	-	-	286	-	-	71.10
1954	7	-	-	146	-	-	70.5	-	-	91	-	-	78.57
1953	8	-	-	112	-	-	81.4	-	-	99	-	-	84.00
1952	9	-	-	-	-	-	-	-	-	65	-	-	89.20
1951	10	-	-	11	-	-	91.0	-	-	91	-	-	95.28
1950	11	-	-	-	-	-	-	-	-	26	-	-	95.50
1949	12	-	-	-	-	-	-	-	-	26	-	-	104.50
1948	13	-	-	-	-	-	-	-	-	39	-	-	110.00
1947	14	-	-	-	-	-	-	-	-	26	-	-	115.00
1946	15	-	-	-	-	-	-	-	-	13	-	-	124.00
TOTAL %00		-	-	1000	/			-	-	1001	/		
SERIAL NUMBERS		-	-	5				-	-	4			
NUMBER OF SAMPLES		-	-	2				-	-	1			
NUMBER OF FISH AGED		-	-	89				-	-	77			
MEAN AGE		-	-	6.0				-	-	7.0			
MEAN WEIGHT (KG)		-	-	-				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	418			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH SIZE (MM)		-	-	120				-	-	50 ¹⁾			
RANGE OF DEPTHS (FM)		-	-	93-109				-	-	25			

1) NYLON

TABLE 39
(CONT'D)

AGE FREQUENCIES - COD - 3Ps - 1961

(FREQUENCIES IN 0/00)

GEAR		OTTER TRAWL													
		(RESEARCH)					(NK)								
CATCHES/LANDINGS		CATCHES													
MONTH		AUGUST					APRIL								
COUNTRY		FRANCE					PORTUGAL								
TONNAGE		NK					1264								
YEAR-CLASS	AGE	0/00 FREQUENCY			MEAN LENGTH			0/00 FREQUENCY			MEAN LENGTH				
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.		
1959	2	-	-	250	-	-	20.33	-	-	-	-	-	-		
1958	3	-	-	222	-	-	31.37	5	-	5	43.0	-	43.0		
1957	4	-	-	222	-	-	32.12	65	25	90	46.2	44.4	45.3		
1956	5	-	-	139	-	-	56.80	90	100	190	52.8	52.4	52.6		
1955	6	-	-	139	-	-	67.00	205	165	370	58.3	58.6	58.3		
1954	7	-	-	-	-	-	-	90	50	140	62.8	66.3	64.5		
1953	8	-	-	28	-	-	70.00	70	25	95	69.5	70.2	68.9		
1952	9	-	-	-	-	-	-	45	10	55	71.0	77.0	74.0		
1951	10	-	-	-	-	-	-	20	15	35	78.0	83.0	80.5		
1950	11	-	-	-	-	-	-	5	5	10	86.0	89.0	87.5		
1949	12	-	-	-	-	-	-	5	-	5	77.0	-	77.0		
1948	13	-	-	-	-	-	-	5	-	5	86.0	-	86.0		
TOTAL 0/00		-	-	1000	/			605	395	1000	/				
SERIAL NUMBERS		-	-	5&6				-	-	-				-	17-20
NUMBER OF SAMPLES		-	-	2				-	-	-				-	2
NUMBER OF FISH AGED		-	-	36				-	-	-				-	200
MEAN AGE		-	-	3.8				-	-	-				-	6.4
MEAN WEIGHT (KG)		-	-	-				-	-	-				-	-
TOTAL WEIGHT LANDED (TONS)		-	-	29				-	-	-				-	-
ESTIMATED NUMBER LANDED		-	-	-				-	-	-				-	-
MESH SIZE (MM)		-	-	50 ¹⁾				-	-	-				-	114
RANGE OF DEPTHS (FM)		-	-	76				-	-	-				-	90

1) NYLON

TABLE 40

AGE FREQUENCIES - COD - 3P - 1961

(FREQUENCIES IN ‰)

GEAR		NK (COMMERCIAL)					
CATCHES/LANDINGS		NK					
MONTH		MARCH/APRIL					
COUNTRY		SPAIN					
TONNAGE		NK					
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH		
		00'	99'	TOT.	00'	99'	TOT.
1958	3	-	48	48	-	52.5	52.5
1957	4	-	214	214	-	59.1	59.1
1956	5	71	333	404	60.0	63.7	63.0
1955	6	24	119	143	75.0	70.6	71.3
1954	7	24	24	48	82.0	92.0	87.0
1953	8	24	48	72	75.0	72.0	73.0
1952	9	-	24	24	-	90.0	90.0
1951	10	-	24	24	-	95.0	95.0
1950	11	-	-	-	-	-	-
1949	12	-	-	-	-	-	-
1948	13	-	24	24	-	93.0	93.0
TOTAL ‰		143	858	1001			
SERIAL NUMBERS		-	-	-			
NUMBER OF SAMPLES		-	-	-			
NUMBER OF FISH AGED		-	-	-			
MEAN AGE		-	-	-			
MEAN WEIGHT (KG)		-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-			
ESTIMATED NUMBER LANDED		-	-	-			
MESH OR HOOK SIZE		-	-	-			
RANGE OF DEPTHS (FM)		-	-	-			

TABLE 41

AGE FREQUENCIES - COD - 4R - 1961

(FREQUENCIES IN ‰/00)

GEAR		OTTER TRAWL (RESEARCH)					
CATCHES/LANDINGS		CATCHES					
MONTH		MARCH					
COUNTRY		FRANCE					
TONNAGE		NK					
YEAR-CLASS	AGE	‰/00 FREQUENCY			MEAN LENGTH		
		00	00	TOT.	00	00	TOT.
1958	3	-	-	4	-	-	25.0
1957	4	-	-	82	-	-	42.7
1956	5	-	-	192	-	-	51.0
1955	6	-	-	337	-	-	55.9
1954	7	-	-	216	-	-	63.0
1953	8	-	-	67	-	-	58.5
1952	9	-	-	51	-	-	62.6
1951	10	-	-	20	-	-	69.4
1950	11	-	-	23	-	-	81.5
1949	12	-	-	4	-	-	70.0
1948	13	-	-	-	-	-	-
1947	14	-	-	-	-	-	-
1946	15	-	-	4	-	-	109.0
TOTAL ‰/00		-	-	1000	/		
SERIAL NUMBERS		-	-	1			
NUMBER OF SAMPLES		-	-	6			
NUMBER OF FISH AGED		-	-	255			
MEAN AGE		-	-	5.8			
MEAN WEIGHT (KG)		-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-			
ESTIMATED NUMBER LANDED		-	-	-			
MESH SIZE (MM)		-	-	120			
RANGE OF DEPTHS (FM)		-	-	55-164			

TABLE 41
(CONT'D)

AGE FREQUENCIES - COD - 4R - 1961

(FREQUENCIES IN 0/00)

GEAR		OTTER TRAWL (NK)												
CATCHES/LANDINGS		CATCHES												
MONTH		MARCH						MARCH						
COUNTRY		PORTUGAL												
TONNAGE		1264												
YEAR-CLASS	AGE	0/00 FREQUENCY			MEAN LENGTH			0/00 FREQUENCY			MEAN LENGTH			
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.	
1958	3	-	5	5	-	41.0	41.0	-	-	-	-	-	-	-
1957	4	95	30	125	44.4	44.3	44.2	20	10	30	49.5	45.0	47.3	
1956	5	210	210	420	48.3	47.2	47.7	70	70	140	51.7	50.4	51.2	
1955	6	135	80	215	52.1	54.5	53.3	120	90	210	50.9	51.0	50.9	
1954	7	50	125	175	59.9	59.7	59.8	120	50	170	55.0	57.8	56.4	
1953	8	20	20	40	62.8	65.0	63.9	70	150	220	57.1	60.7	58.5	
1952	9	-	5	5	-	68.0	68.0	40	60	100	57.3	66.9	62.1	
1951	10	-	5	5	-	65.0	65.0	10	20	30	58.0	72.0	65.0	
1950	11	5	-	5	77.0	-	77.0	30	-	30	68.3	-	68.3	
1949	12	-	5	5	-	83.0	83.0	10	30	40	68.0	62.3	65.2	
1948	13	-	-	-	-	-	-	10	-	10	74.0	-	74.0	
1947	14	-	-	-	-	-	-	10	10	20	65.0	65.0	65.0	
TOTAL 0/00		515	485	1000				510	490	1000				
SERIAL NUMBERS		-	-	1-6				-	-	3				
NUMBER OF SAMPLES		-	-	2				-	-	1				
NUMBER OF FISH AGED		-	-	200				-	-	100				
MEAN AGE		-	-	5.7				-	-	8.5				
MEAN WEIGHT (KG)		-	-	-				-	-	-				
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-				
ESTIMATED NUMBER LANDED		-	-	-				-	-	-				
MESH SIZE (MM)		-	-	114				-	-	114				
RANGE OF DEPTHS (FM)		-	-	110-125				-	-	145				

TABLE 42

AGE FREQUENCIES - COD - 4T - 1961

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL											
		(RESEARCH)						(NK)					
CATCHES/LANDINGS		CATCHES											
MONTH		APRIL						APRIL					
COUNTRY		FRANCE						PORTUGAL					
TONNAGE		1469						1264					
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1957	4	-	-	35	-	-	41.0	10	20	30	47.0	45.0	46.0
1956	5	-	-	200	-	-	44.2	60	140	200	53.0	54.3	53.7
1955	6	-	-	423	-	-	50.2	120	70	190	53.8	54.3	54.1
1954	7	-	-	153	-	-	49.4	200	40	240	57.2	55.6	56.4
1953	8	-	-	71	-	-	62.0	80	60	140	60.8	60.7	60.7
1952	9	-	-	24	-	-	59.5	40	40	80	69.8	65.2	67.5
1951	10	-	-	59	-	-	53.0	20	50	70	65.0	66.7	65.9
1950	11	-	-	-	-	-	-	30	-	30	70.7	-	70.7
1949	12	-	-	35	-	-	76.0	-	20	20	-	81.0	81.0
TOTAL ‰		-	-	1000	/			560	440	1000	/		
SERIAL NUMBERS		-	-	4				-	-	9			
NUMBER OF SAMPLES		-	-	2				-	-	1			
NUMBER OF FISH AGED		-	-	85				-	-	100			
MEAN AGE		-	-	6.5				-	-	70			
MEAN WEIGHT (KG)		-	-	-				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH SIZE (MM)		-	-	120 ¹⁾				-	-	114			
RANGE OF DEPTHS (FM)		-	-	82-109				-	-	85			

1) NYLON