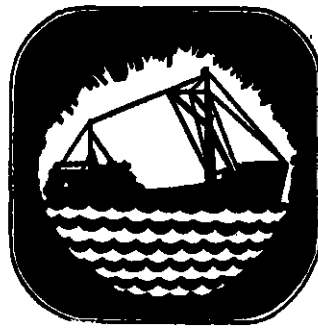


INTERNATIONAL COMMISSION

FOR THE

NORTHWEST ATLANTIC FISHERIES



SAMPLING YEARBOOK VOLUME 8

for the year 1963

Edited by B. F. CALVIN DEBAIE

Tables prepared and typed by Gertrude F. Schrader

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Dartmouth, N. S., Canada**

1965

SAMPLING YEARBOOK VOLUME 8

1963

Edited by B. F. CALVIN DEBAIE

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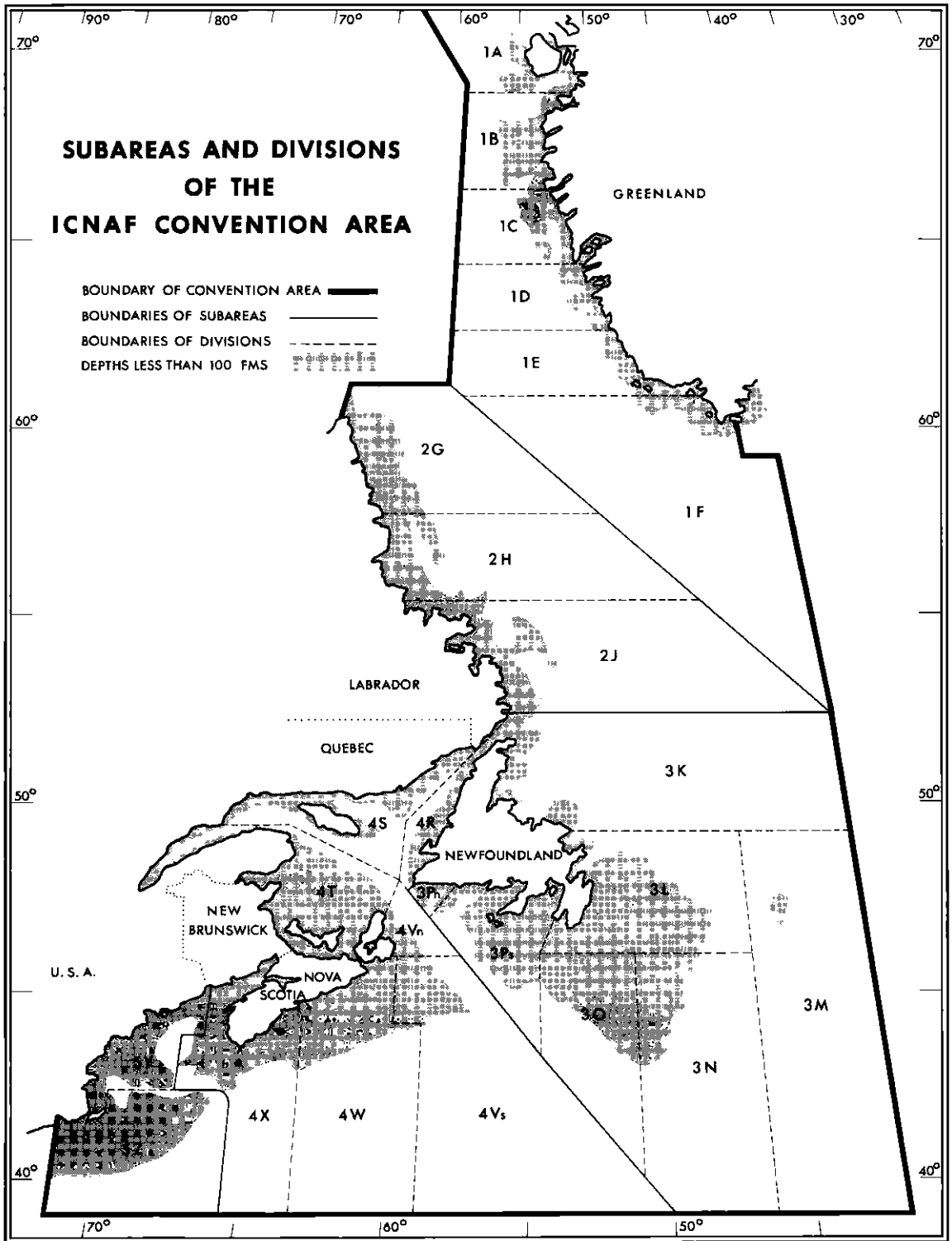
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INTRODUCTION

by B. F. Calvin DeBaie

This edition of the Sampling Yearbook summarises the data on lengths, ages and weights of cod, haddock, redfish, Greenland halibut, American plaice, witch, winter flounder, pollock, silver hake and herring, which have been collected in 1963 to further the investigations of the fisheries and fish stocks of the Northwest Atlantic.

In earlier 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 earlier years and first introduced in Volume 6 has come about as the result of a recommendation made by the Commission in 1961, which requested 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 order to bring the inconsistent reporting into a more comparable form. It should also be noted that the Guide to Tables has been again 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, following this introduction.

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.

NOTES ON THE SAMPLING DATA

The "Notes on the Sampling Data" which appear below have been contributed by the reporting countries. Each contributor is required to report to the Secretariat any information, pertinent to the sampling data, that he wishes to have published.

Canada (Maritimes and Quebec)

Reported by A. C. Kohler
D. N. Fitzgerald
A. Marcotte
P. Albert

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.

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 $2\frac{1}{2}$ pounds gutted weight. Small round haddock are sometimes landed in a separate market category. These market categories are usually sampled approximately in proportion to the relative numbers of each in a trip landing. When the final weighout is available the length frequency of the landings is determined by applying weighting factors to each category. Other species reported are not usually culled by market category. Length frequencies by sexes are 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, pollock, and cusk, and 1-cm groups for redfish and flounders. 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 longlines by Quebec.

Canada (Newfoundland)

Reported by A. M. Fleming
A. W. May
C. J. Elms

Length frequencies are based on sampling of the commercial landings of cod, haddock, redfish and American plaice. The research samples from Labrador were caught on commercial gears operated from a small research boat.

Measurements are of fork length recorded to the nearest centimetre and are carried out on shore, before appreciable culling by the plant has occurred. Samples of landings after discard indicate that discarding has taken place at sea before landing. Samples of landings before discard indicate that no discarding has occurred at sea before landing.

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

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

Denmark (Greenland)

Reported by Paul M. Hansen

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

Germany

Reported by Arno Meyer

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

Iceland

Reported by Jon Jonsson

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

Measurements are made of the total length to the nearest centimetre, and not of the fork length as has been erroneously reported in earlier issues of the Sampling Yearbook.

Portugal

Reported by Ruy Monteiro

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

United Kingdom

Reported by J. A. Gulland

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

TABLE 1

LENGTH FREQUENCIES - COD - IA - 1963

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

GEAR	GREENLANDERS ¹ , HAND LINE, LONG LINE (NK)	GREENLANDERS ¹ (NK)
CATCHES/LANDINGS	NK	
MONTH	JULY-AUGUST-SEPTEMBER	AUGUST-SEPTEMBER-OCTOBER
COUNTRY	DENMARK (GREENLAND)	
TONNAGE	NK	
42-44	-	4
45-47	-	-
48-50	-	13
51-53	-	18
54-56	-	31
57-59	-	31
60-62	-	62
63-65	6	94
66-68	-	125
69-71	6	228
72-74	23	125
75-77	51	116
78-80	119	67
81-83	130	31
84-86	186	22
87-89	79	13
90-92	226	4
93-95	96	-
96-98	40	-
99-101	23	4
102-104	11	4
105-107	7	4
TOTAL $\%$	1003	996
SERIAL NUMBERS	-	-
NUMBER OF SAMPLES	-	-
NUMBER OF FISH MEASURED	177	224
MEAN LENGTH (CM)	85.3	70.1
MEAN WEIGHT (KG)	-	-
TOTAL WEIGHT LANDED (TONS)	-	-
ESTIMATED NUMBER LANDED	-	-
MESH OR HOOK SIZE	-	-
RANGE OF DEPTHS (FM)	-	-

TABLE 2

LENGTH FREQUENCIES - COD - IB - 1963

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	OTTER TRAWL			HAND LINE & LONG LINE
	(COMMERCIAL)	(RESEARCH)	(NK)	(NK)
CATCHES/LANDINGS	CATCHES			NK
MONTH	OCTOBER	NOVEMBER	DECEMBER	JULY
COUNTRY	U. S. S. R.		GERMANY	DENMARK (GREENLAND)
TONNAGE	OVER 1800		2000	1)
24-26	-	1	-	-
27-29	-	3	-	-
30-32	1	9	-	-
33-35	-	8	-	6
36-38	2	17	-	-
39-41	4	25	48	11
42-44	11	41	83	29
45-47	38	89	100	17
48-50	15	53	83	74
51-53	17	38	80	126
54-56	29	40	42	114
57-59	32	41	35	103
60-62	39	42	52	143
63-65	75	62	69	69
66-68	159	107	90	91
69-71	105	71	121	114
72-74	114	88	59	40
75-77	133	104	31	29
78-80	68	50	28	11
81-83	43	32	31	6
84-86	41	26	21	11
87-89	33	20	3	-
90-92	11	11	14	6
93-95	15	8	7	-
96-98	8	4	-	-
99-101	4	4	-	-
102-104	2	3	-	-
105-107	1	1	3	-
108-110	-	1	-	-
TOTAL ‰	1000	999	1000	1000
SERIAL NUMBERS	-	-	14,15	-
NUMBER OF SAMPLES	7	18	2	-
NUMBER OF FISH MEASURED	2460	5841	289	175
MEAN LENGTH (CM)	70.33	64.00	61.0	60.1
MEAN WEIGHT (KG)	3.85	2.41	-	-
TOTAL WEIGHT LANDED (TONS)	40	102	0.5	-
ESTIMATED NUMBER LANDED	-	-	-	-
MESH SIZE (MM)	110	110	110	-
RANGE OF DEPTHS (FM)	119-194	47-185	100	44-60

1) M/S "DANA" AND M/C "ADOLF JENSEN"

TABLE 2
(CONT'D)

LENGTH FREQUENCIES - COD - IB - 1963

(FREQUENCIES IN 0/00 - 3 CM GROUPS)

GEAR	GREENLANDERS' (NK)			NK (RESEARCH)
	NK			
CATCHES/LANDINGS				
MONTH	JULY	JULY	JULY-AUGUST	JULY
COUNTRY	DENMARK (GREENLAND)			
TONNAGE	1)			2)
42-44	-	-	5	-
45-47	5	10	27	16
48-50	18	-	49	8
51-53	33	10	108	16
54-56	45	101	124	8
57-59	53	61	151	32
60-62	133	131	124	89
63-65	196	61	103	105
66-68	174	30	92	121
69-71	161	71	65	145
72-74	86	71	81	105
75-77	53	131	38	97
78-80	18	81	16	32
81-83	10	61	5	65
84-86	10	81	11	32
87-89	3	30	-	24
90-92	3	20	-	24
93-95	-	20	-	32
96-98	-	-	-	32
99-101	-	20	-	8
102-104	-	10	-	-
105-107	-	-	-	8
TOTAL 0/00	1001	1000	999	999
SERIAL NUMBERS	-	-	-	-
NUMBER OF SAMPLES	-	-	-	-
NUMBER OF FISH MEASURED	397	99	185	124
MEAN LENGTH (CM)	65.8	71.8	61.3	72.3
MEAN WEIGHT (KG)	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-
MESH OR HOOK SIZE	-	-	-	-
RANGE OF DEPTHS (FM)	-	-	-	49-98

1) GREENLANDERS'

2) M/S "DANA" AND M/C "ADOLF JENSEN"

TABLE 3

LENGTH FREQUENCIES - COD - IC - 1963

(FREQUENCIES IN $\frac{0}{00}$ - 3 CM GROUPS)

GEAR	OTTER TRAWL						
	(COMMERCIAL)				(RESEARCH)		
CATCHES/LANDINGS	CATCHES				NK		
MONTH	FEBRUARY	MARCH	APRIL	NOVEMBER	APRIL	APRIL	APRIL
COUNTRY	U. S. S. R.				NORWAY		
TONNAGE	OVER 1800				NK		
24-26	1	-	-	-	-	-	-
27-29	1	-	2	-	-	-	-
30-32	2	3	19	3	-	-	-
33-35	3	12	44	-	-	-	-
36-38	4	40	66	-	5	2	4
39-41	4	45	59	-	11	5	5
42-44	3	46	45	17	13	7	5
45-47	8	72	63	27	42	18	24
48-50	15	95	85	20	58	24	35
51-53	32	95	78	13	60	24	36
54-56	57	91	80	30	80	29	51
57-59	96	103	83	27	144	49	95
60-62	157	129	132	23	162	68	95
63-65	177	101	90	77	124	58	66
66-68	161	75	64	110	104	49	55
69-71	109	50	50	120	77	46	31
72-74	62	21	19	83	35	18	16
75-77	39	12	13	163	22	15	7
78-80	25	6	6	127	33	13	20
81-83	17	2	1	87	11	4	7
84-86	12	1	-	43	9	4	5
87-89	7	-	-	20	4	-	4
90-92	5	-	-	-	4	4	-
93-95	2	-	-	7	2	-	2
96-98	1	-	-	3	-	-	-
TOTAL $\frac{0}{00}$	1000	999	999	1000	1000	497 ¹⁾	563 ²⁾
SERIAL NUMBERS	-	-	-	-	-	-	-
NUMBER OF SAMPLES	91	20	14	1	-	5	-
NUMBER OF FISH MEASURED	42098	17794	7595	300	-	-	-
MEAN LENGTH (CM)	64.69	55.66	53.83	71.02	61.38	62.03	60.88
MEAN WEIGHT (KG)	2.54	1.65	1.78	3.54	-	-	-
TOTAL WEIGHT LANDED (TONS)	406	1284	507	21	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-
MESH SIZE (MM)	110	110	110	110	-	-	-
RANGE OF DEPTHS (FM)	55-227	66-147	66-205	111	-	-	-

1) TOTAL OF FEMALE ONLY

2) TOTAL OF MALE ONLY

TABLE 3
(CONT'D)

LENGTH FREQUENCIES - COD - IC - 1963

(FREQUENCIES IN 0/00 - 3 CM GROUPS)

GEAR	BOTTOM LONG LINE (RESEARCH)			LONG LINE, HAND LINE, AND GREENLANDERS ¹	NK (RESEARCH)		
				(NK)			
CATCHES/LANDINGS	NK						
MONTH	APRIL	APRIL	APRIL	JUNE	JULY	JULY	JULY
COUNTRY	NORWAY			DENMARK (GREENLAND)			
TONNAGE	NK						
30-32	-	-	-	-	12	-	1
33-35	-	-	-	-	81	-	4
36-38	-	-	-	-	130	-	6
39-41	5	9	14	-	155	-	6
42-44	5	5	9	-	106	-	4
45-47	13	18	31	-	62	-	2
48-50	27	9	36	-	37	-	2
51-53	18	18	36	-	75	-	10
54-56	5	22	27	41	25	-	12
57-59	45	45	90	41	43	-	12
60-62	40	58	99	55	31	-	17
63-65	45	140	184	137	50	42	59
66-68	36	94	130	205	50	-	95
69-71	22	63	86	151	50	-	137
72-74	5	45	50	151	31	-	156
75-77	27	27	54	68	37	42	107
78-80	13	22	36	82	6	-	101
81-83	5	36	40	14	6	104	84
84-86	5	18	23	14	6	167	69
87-89	13	14	27	14	6	125	54
90-92	5	9	9	-	-	167	27
93-95	-	5	9	14	-	208	17
96-98	-	5	5	-	-	62	11
99-101	-	-	-	14	-	62	1
102-104	-	5	5	-	-	-	1
105-107	-	-	-	-	-	21	-
108-110	-	-	-	-	-	-	-
111-113	-	-	-	-	-	-	1
TOTAL 0/00	334 ¹⁾	667 ²⁾	1000	1001	999	1000	996
SERIAL NUMBERS	-	-	-	-	-	-	-
NUMBER OF SAMPLES	2	2	2	-	-	-	-
NUMBER OF FISH MEASURED	-	-	-	73 ³⁾	161	48	801
MEAN LENGTH (CM)	63.80	67.30	66.13	69.9	50.3	88.6	74.5
MEAN WEIGHT (KG)	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-
MESH OR HOOK SIZE	-	-	-	-	-	-	-
RANGE OF DEPTHS (FM)	-	-	-	-	33-38	-	49-77

- 1) MALE TOTAL ONLY
- 2) FEMALE TOTAL ONLY
- 3) 74, ONE NOT MEASURED

TABLE 4

LENGTH FREQUENCIES - COD - ID - 1963

(FREQUENCIES IN % - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)							
	CATCHES			LANDINGS				
CATCHES/LANDINGS	FEBRUARY	JUNE	AUGUST	JAN./FEB.	JULY	AUGUST	SEPTEMBER	DECEMBER
MONTH	U. S. S. R.			GERMANY				
COUNTRY	OVER 1800			900-1800				
TONNAGE								
21-23	1	-	-	-	-	-	-	-
24-26	1	-	-	-	-	-	-	-
27-29	1	2	4	-	-	-	-	-
30-32	1	3	4	-	-	-	-	-
33-35	5	4	3	-	-	-	-	-
36-38	11	12	18	-	-	-	-	-
39-41	7	14	16	-	-	-	-	-
42-44	6	10	14	-	-	-	-	-
45-47	13	9	9	-	-	-	-	5
48-50	14	14	9	1	-	1	-	8
51-53	17	11	9	10	2	3	4	5
54-56	40	24	11	27	5	7	-	21
57-59	68	37	18	82	13	30	5	52
60-62	130	70	46	131	45	41	24	64
63-65	156	91	92	179	79	80	51	102
66-68	188	111	125	166	122	109	85	163
69-71	118	139	133	108	173	139	105	159
72-74	74	101	100	102	132	138	170	140
75-77	42	81	98	48	138	129	105	87
78-80	35	74	95	41	113	106	95	71
81-83	21	45	52	34	73	78	93	54
84-86	18	44	37	31	50	31	86	28
87-89	15	32	42	18	26	42	59	16
90-92	9	28	22	10	12	15	44	10
93-95	5	17	19	5	8	18	27	7
96-98	2	14	12	4	5	7	22	6
99-101	1	8	7	1	1	16	12	2
102-104	1	3	3	1	3	6	4	-
105-107	-	1	2	-	-	5	5	-
108-110	-	1	-	-	-	3	2	-
111-113	-	-	-	-	-	1	2	-
114-116	-	-	-	-	-	1	-	-
TOTAL %/00	1000	1000	1000	1000	1000	1000	1000	1000
SERIAL NUMBERS	-	-	-	3,9,10	39,41	43	47	55,57
NUMBER OF SAMPLES	16	19	19	3	2	1	1	2
NUMBER OF FISH MEASURED	3670	10054	2087	1179	807	581	411	1035
MEAN LENGTH (CM)	65.86	70.57	71.08	68.9	74.0	75.1	78.1	71.0
MEAN WEIGHT (KG)	2.99	4.00	4.08	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	443	159	-	674	157	173	151	268
ESTIMATED NUMBER LANDED	-	-	-	272679	55985	55514	39378	96247
MESH SIZE (MM)	110	110	110	120	120	120	120	120
RANGE OF DEPTHS (FM)	77-205	83-250	22-77	-	-	-	-	-

TABLE 4
(CONT'D)

LENGTH FREQUENCIES - COD - ID - 1963

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	OTTER TRAWL (RESEARCH)						
	CATCHES	NK					
CATCHES/LANDINGS	DECEMBER	APRIL	APRIL	APRIL	MAY	MAY	MAY
MONTH	DECEMBER	APRIL	APRIL	APRIL	MAY	MAY	MAY
COUNTRY	GERMANY	NORWAY					
TONNAGE	2000	NK					
33-35	6	-	-	-	-	-	-
36-38	-	19	9	28	-	-	-
39-41	-	-	-	-	-	-	-
42-44	28	-	-	-	-	-	-
45-47	67	18	9	28	-	-	-
48-50	39	28	19	46	-	-	-
51-53	45	9	46	55	-	9	9
54-56	39	55	19	74	38	9	47
57-59	34	37	75	111	66	38	104
60-62	67	65	46	111	66	76	142
63-65	67	83	83	166	94	76	170
66-68	118	65	46	111	47	38	85
69-71	129	19	75	93	57	94	151
72-74	118	19	37	55	19	38	57
75-77	79	9	9	19	19	47	66
78-80	62	19	-	19	47	76	123
81-83	56	9	9	19	9	19	28
84-86	11	28	-	28	-	9	9
87-89	17	-	9	9	-	-	-
90-92	6	9	-	9	-	9	9
93-95	6	9	9	19	-	-	-
96-98	-	-	-	-	-	-	-
99-101	-	-	-	-	-	-	-
102-104	-	-	-	-	-	-	-
105-107	-	-	-	-	-	-	-
108-110	-	-	-	-	-	-	-
111-113	-	-	-	-	-	-	-
114-116	6	-	-	-	-	-	-
TOTAL ‰	1000	500 ¹⁾	500 ²⁾	1000	462 ³⁾	538 ⁴⁾	1000
SERIAL NUMBERS	25	-	-	-	-	-	-
NUMBER OF SAMPLES	1	1	1	1	1	1	1
NUMBER OF FISH MEASURED	178	-	-	-	-	-	-
MEAN LENGTH (CM)	67.0	63.70	63.33	63.52	65.59	69.47	67.68
MEAN WEIGHT (KG)	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	178	-	-	-	-	-	-
MESH SIZE (MM)	110	-	-	-	-	-	-
RANGE OF DEPTHS (FM)	150	-	-	-	-	-	-

- 1) TOTAL FOR MALE ONLY
- 2) TOTAL FOR FEMALE ONLY
- 3) TOTAL FOR MALE ONLY
- 4) TOTAL FOR FEMALE ONLY

TABLE 4
(CONT'D)

LENGTH FREQUENCIES - COD - 10 - 1963

(FREQUENCIES IN 0/00 - 3 CM GROUPS)

GEAR	BOTTOM LONG LINE			LONG LINE AND HAND LINE	
	(RESEARCH)				
CATCHES/LANDINGS	NK				
MONTH	MAY	MAY	MAY	JULY	JULY-AUGUST
COUNTRY	NORWAY			DENMARK	(GREENLAND)
TONNAGE	NK				
36-38	-	-	-	3	-
39-41	-	10	10	10	-
42-44	10	-	10	23	-
45-47	10	20	30	13	-
48-50	10	10	20	23	-
51-53	30	20	50	25	-
54-56	50	10	60	23	11
57-59	30	70	100	48	-
60-62	40	10	50	89	46
63-65	60	20	80	131	80
66-68	30	70	100	111	57
69-71	50	70	120	146	23
72-74	20	70	90	98	138
75-77	20	30	50	80	57
78-80	10	30	40	48	126
81-83	-	10	10	40	46
84-86	40	30	70	28	46
87-89	10	30	40	30	92
90-92	20	20	40	15	92
93-95	-	20	20	13	34
96-98	-	10	10	3	11
99-101	-	-	-	5	46
102-104	-	-	-	3	23
105-107	-	-	-	-	34
108-110	-	-	-	3	-
111-113	-	-	-	-	11
114-116	-	-	-	-	-
117-119	-	-	-	-	11
120-122	-	-	-	-	-
122-134	-	-	-	-	11
TOTAL 0/00	440 ²⁾	560 ³⁾	1000	1005	995
SERIAL NUMBERS	-	-	-	-	-
NUMBER OF SAMPLES	1	1	1	-	-
NUMBER OF FISH MEASURED	-	-	-	398	87
MEAN LENGTH (CM)	66.07	67.71	66.99	68.2	81.8
MEAN WEIGHT (KG)	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-
HOOK SIZE	-	-	-	-	-
RANGE OF DEPTHS (FM)	-	-	-	55-82	55-142

- 1) M/C "ADOLF JENSEN"
- 2) TOTAL FOR MALE ONLY
- 3) TOTAL FOR FEMALE ONLY

TABLE 4
(CONT'D)

LENGTH FREQUENCIES - COD - ID - 1963

(FREQUENCIES IN % - 3 CM GROUPS)

GEAR	LONG LINE AND HAND LINE		LONG LINE, HAND LINE AND GREENLANDERS ¹		
	(NK)				
CATCHES/LANDINGS	NK				
MONTH	JUNE	JULY	MAY	MAY	OCTOBER
COUNTRY	DENMARK (GREENLAND)				
TONNAGE	1)		2)		
33-35	-	-	-	-	10
36-38	8	-	-	-	21
39-41	8	-	9	-	10
42-44	8	-	26	-	21
45-47	-	-	34	-	21
48-50	16	-	73	4	-
51-53	40	7	64	17	31
54-56	48	16	103	42	31
57-59	89	23	145	71	62
60-62	81	35	137	117	52
63-65	89	80	98	105	52
66-68	137	119	107	84	83
69-71	105	162	77	172	94
72-74	129	134	77	121	42
75-77	65	117	38	71	31
78-80	73	99	-	75	83
81-83	65	61	9	29	52
84-86	8	47	-	33	62
87-89	16	33	4	13	94
90-92	8	26	-	21	31
93-95	8	21	-	8	42
96-98	-	7	-	4	21
99-101	-	5	-	-	21
102-104	-	2	-	8	10
105-107	-	2	-	-	-
108-110	-	3	-	-	-
111-113	-	-	-	-	10
114-116	-	-	-	-	10
117-119	-	-	-	-	-
120-122	-	-	-	-	-
123-125	-	-	-	4	-
TOTAL %	1001	999	1001	999	997
SERIAL NUMBERS	-	-	-	-	-
NUMBER OF SAMPLES	-	-	-	-	-
NUMBER OF FISH MEASURED	124	573	234	239	96
MEAN LENGTH (CM)	67.8	74.0	58.3	70.0	73.2
MEAN WEIGHT (KG)	2.8	-	-	3.3	4.07
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-
MESH OR HOOK SIZE	-	-	-	-	-
RANGE OF DEPTHS (FM)	49-71	27-82	-	-	-

1) M/S "DANA" AND M/C "ADOLF JENSEN"

2) M/C "ADOLF JENSEN" AND GREENLANDERS¹

TABLE 5

LENGTH FREQUENCIES - COD - IE - 1963

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)				
	CATCHES	LANDINGS			
MONTH	JUNE	MARCH	APRIL	MAY	JUNE
COUNTRY	U. S. S. R.	GERMANY			
TONNAGE	OVER 1800	900-1800			500-900
36-38	1	-	-	-	-
39-41	1	-	-	-	-
42-44	2	-	-	-	-
45-47	7	-	4	-	-
48-50	13	-	8	-	1
51-53	35	-	19	-	11
54-56	63	3	80	14	22
57-59	89	18	145	60	64
60-62	69	86	132	54	75
63-65	103	167	162	129	103
66-68	145	195	159	208	133
69-71	115	212	78	205	149
72-74	96	111	72	115	133
75-77	105	74	53	82	109
78-80	50	46	30	29	63
81-83	30	33	29	39	62
84-86	25	20	11	26	16
87-89	20	17	8	22	21
90-92	13	9	5	10	13
93-95	11	4	2	3	9
96-98	7	3	3	4	6
99-101	3	1	-	-	3
102-104	2	1	-	-	5
105-107	1	-	-	-	2
TOTAL ‰	1000	1000	1000	1000	1000
SERIAL NUMBERS	-	17	21	35	36
NUMBER OF SAMPLES	33	1	1	1	1
NUMBER OF FISH MEASURED	14846	450	406	405	512
MEAN LENGTH (CM)	68.56	70.5	66.0	70.4	71.5
MEAN WEIGHT (KG)	3.00	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	771	94	78	175	270
ESTIMATED NUMBER LANDED	-	36644	35902	73646	107228
MESH SIZE (MM)	110	120	120	120	120
RANGE OF DEPTHS (FM)	83-233	-	-	-	-

TABLE 5
(CONT'D)

LENGTH FREQUENCIES - COD - IE - 1963

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	OTTER TRAWL (RESEARCH)						
	CATCHES	NK					
CATCHES/LANDINGS	DECEMBER	MAY	MAY	MAY	MAY	MAY	MAY-JUNE
MONTH	DECEMBER	MAY	MAY	MAY	MAY	MAY	MAY-JUNE
COUNTRY	GERMANY	DENMARK (GREENLAND)					
TONNAGE	2000	1)					
30-32	38	-	-	-	-	-	-
33-35	10	-	-	-	-	-	-
36-38	29	-	-	-	-	-	-
39-41	19	-	-	-	-	-	-
42-44	-	1	2	-	-	-	1
45-47	19	4	62	-	-	-	1
48-50	29	11	151	-	4	-	3
51-53	58	32	151	45	7	6	6
54-56	48	56	131	52	15	22	16
57-59	115	58	72	174	29	32	34
60-62	163	95	62	194	78	78	81
63-65	163	116	77	97	103	130	124
66-68	115	138	99	103	133	136	161
69-71	39	134	86	103	118	158	148
72-74	58	101	54	90	133	144	131
75-77	10	82	30	65	85	90	94
78-80	19	64	10	19	83	44	62
81-83	48	37	5	13	73	46	49
84-86	-	30	5	39	50	38	34
87-89	10	16	2	-	39	38	22
90-92	-	11	-	-	20	16	14
93-95	10	5	2	6	13	6	8
96-98	-	3	-	-	6	8	7
99-101	-	1	-	-	5	4	2
102-104	-	1	-	-	3	2	2
105-107	-	1	-	-	3	-	1
108-110	-	-	-	-	1	-	-
TOTAL ‰/00	1000	997	1001	1000	1001	998	1001
SERIAL NUMBERS	34	-	-	-	-	-	-
NUMBER OF SAMPLES	1	-	-	-	-	-	-
NUMBER OF FISH MEASURED	104	2230	405	155	2797	499	5485
MEAN LENGTH (CM)	61.5	68.6	59.1	65.4	72.9	71.3	71.0
MEAN WEIGHT (KG)	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-
MESH SIZE (MM)	110	-	-	-	-	-	-
RANGE OF DEPTHS (FM)	60-70	80-180	80-100	120-150	165-180	70-190	70-180

1) S/T "SKALLABERG"

TABLE 5
(CONT'D)

LENGTH FREQUENCIES - COD - IE - 1963

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	LONG LINE AND HAND LINE	LONG LINE, HAND LINE AND GREENLANDERS'		
		(NK)		
CATCHES/LANDINGS	NK			
MONTH	AUGUST	AUGUST	AUGUST	AUGUST
COUNTRY	DENMARK (GREENLAND)			
TONNAGE	1)	2)		
33-35	-	-	-	5
36-38	-	-	-	3
39-41	-	-	-	5
42-44	-	3	-	5
45-47	-	-	-	10
48-50	8	3	-	31
51-53	15	23	10	107
54-56	8	49	10	196
57-59	15	62	10	132
60-62	23	44	10	61
63-65	53	47	68	59
66-68	38	117	39	64
69-71	106	161	49	84
72-74	174	122	68	114
75-77	61	135	165	59
78-80	61	117	136	36
81-83	159	52	58	20
84-86	53	23	107	3
87-89	106	21	116	5
90-92	53	10	19	3
93-95	61	5	19	-
96-98	8	-	-	-
99-101	-	3	39	-
102-104	-	-	10	-
105-107	-	-	10	-
108-110	-	-	19	-
111-113	-	-	10	-
114-116	-	-	10	-
117-119	-	-	10	-
147	-	-	10	-
TOTAL ‰	1002	997	1002	1002
SERIAL NUMBERS	-	-	-	-
NUMBER OF SAMPLES	-	-	-	-
NUMBER OF FISH MEASURED	132	384	103	393
MEAN LENGTH (CM)	77.4	70.1	81.3	62.5
MEAN WEIGHT (KG)	4.267	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-
MESH OR HOOK SIZE	-	-	-	-
RANGE OF DEPTHS (FM)	82	27-109	55-66	22-82

1) M/S "DANA" AND M/C "ADOLF JENSEN"

2) M/C "ADOLF JENSEN" AND GREENLANDERS'

TABLE 6

LENGTH FREQUENCIES - COD - IF - 1963

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	OTTER TRAWL							(RESEARCH) CATCHES
	(COMMERCIAL)						CATCHES	
	CATCHES ¹⁾		LANDINGS					
CATCHES/LANDINGS	JULY	JULY	JANUARY	MARCH	APRIL	NOVEMBER	DECEMBER	
MONTH	PORTUGAL		GERMANY					
COUNTRY	1287.61		500-900				2000	
TONNAGE								
30-32	-	-	-	-	-	-	5	
33-35	-	-	-	-	-	-	28	
36-38	-	-	-	-	-	-	11	
39-41	-	-	-	-	-	-	11	
42-44	-	30	-	-	-	-	5	
45-47	20	70	1	1	-	-	17	
48-50	44	60	14	4	5	-	55	
51-53	104	35	37	12	58	1	50	
54-56	153	145	39	36	135	20	149	
57-59	129	80	30	54	164	67	166	
60-62	117	80	83	69	162	77	188	
63-65	113	110	63	154	137	106	94	
66-68	96	120	194	165	130	87	77	
69-71	88	100	250	168	104	140	22	
72-74	72	65	120	108	57	157	28	
75-77	48	50	77	69	23	161	33	
78-80	8	25	21	49	11	100	28	
81-83	4	15	26	39	7	67	11	
84-86	4	15	17	30	2	8	6	
87-89	-	-	11	16	2	8	-	
90-92	-	-	9	12	1	1	-	
93-95	-	-	3	9	1	-	6	
96-98	-	-	3	3	1	-	-	
99-101	-	-	2	2	-	-	-	
131	-	-	-	-	-	-	5	
133	-	-	-	-	-	-	5	
TOTAL ‰	1000	1000	1000	1000	1000	1000	1000	
SERIAL NUMBERS	A1,3,4	B+2	6	12,16,18	28	53	35	
NUMBER OF SAMPLES	3	1	1	3	1	1	1	
NUMBER OF FISH MEASURED	249	200	499	1160	531	437	181	
MEAN LENGTH (CM)	61.5	61.7	69.0	69.9	63.3	71.2	60.8	
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	
TOTAL WEIGHT LANDED (TONS)	-	-	177	300	100	53	-	
ESTIMATED NUMBER LANDED	-	-	72723	118239	55752	20204	-	
MESH SIZE (MM)	114	114	120	120	120	120	110	
RANGE OF DEPTHS (FM)	75-87	79	-	-	-	-	80-120	

1) CATCHES AFTER DISCARD

TABLE 6
(CONT'D)

LENGTH FREQUENCIES - COD - IF - 1963

(FREQUENCIES IN 0/00 - 3 CM GROUPS)

GEAR	LONG LINE, HAND LINE AND GREENLANDERS ¹ (RESEARCH)			
	NK			
CATCHES/LANDINGS				
MONTH	FEBRUARY	AUGUST	SEPTEMBER	SEPTEMBER
COUNTRY	DENMARK (GREENLAND)			
TONNAGE				
39-41	-	2	-	-
42-44	-	3	-	-
45-47	8	6	-	-
48-50	8	24	6	-
51-53	16	45	6	-
54-56	47	65	30	6
57-59	39	77	33	-
60-62	54	92	36	23
63-65	109	112	48	41
66-68	132	139	120	82
69-71	302	145	180	123
72-74	155	137	186	111
75-77	93	81	156	216
78-80	31	40	96	134
81-83	-	14	54	105
84-86	-	6	24	99
87-89	-	8	18	41
90-92	-	2	3	6
93-95	8	2	3	-
96-98	-	-	-	-
99-101	-	-	3	6
102-104	-	-	-	-
105-107	-	-	-	-
108-110	-	-	-	6
TOTAL 0/00	1002	1000	1002	999
SERIAL NUMBERS	-	-	-	-
NUMBER OF SAMPLES	-	-	-	-
NUMBER OF FISH MEASURED	129	627	334	171
MEAN LENGTH (CM)	68.2	65.1	-	76.0
MEAN WEIGHT (KG)	2.952	2.5	3.200	4.168
TOTAL WEIGHT LANDED (TONS)	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-
MESH OR HOOK SIZE	-	-	-	-
RANGE OF DEPTHS (FM)	-	16-82	-	49-60

1) M/C "ADOLF JENSEN" AND GREENLANDERS¹

TABLE 7

LENGTH FREQUENCIES - COD - 26 - 1963

(FREQUENCIES IN 0/00 - 3 CM GROUPS)

GEAR	CATCHES	
	OTTER TRAWL (EXPLORATORY)	JIGGER (RESEARCH)
CATCHES/LANDINGS	CATCHES	
MONTH	APRIL	AUGUST
COUNTRY	U. S. S. R.	CANADA (NEWFOUNDLAND)
TONNAGE	1800	1)
36-38	1	1
39-41	3	19
42-44	15	37
45-47	42	142
48-50	66	164
51-53	109	165
54-56	162	179
57-59	183	130
60-62	154	85
63-65	110	51
66-68	67	15
69-71	44	4
72-74	22	6
75-77	13	1
78-80	5	-
81-83	2	-
84-86	1	-
87-89	1	-
TOTAL 0/00	1000	999
SERIAL NUMBERS	-	-
NUMBER OF SAMPLES	15	2
NUMBER OF FISH MEASURED	19612	726
MEAN LENGTH (CM)	58.51	53.22
MEAN WEIGHT (KG)	1.91	-
TOTAL WEIGHT LANDED (TONS)	1185	-
ESTIMATED NUMBER LANDED	-	-
MESH OR HOOK SIZE	110	No.5
RANGE OF DEPTHS (FM)	140-242	10-20

1) SMALL BOAT

TABLE 8

LENGTH FREQUENCIES - COD - 2H - 1963

(FREQUENCIES IN 0/00 - 3 CM GROUPS)

GEAR	OTTER TRAWL (EXPLORATORY)	JIGGER (COMMERCIAL AND RESEARCH)
CATCHES/LANDINGS	CATCHES	CATCHES-NO DISCARD
MONTH	APRIL	AUGUST
COUNTRY	U. S. S. R.	CANADA (NEWFOUNDLAND)
TONNAGE	1800	0-25
30-32	1	-
33-35	1	2
36-38	3	5
39-41	21	17
42-44	46	39
45-47	83	73
48-50	118	127
51-53	188	136
54-56	197	194
57-59	123	181
60-62	110	120
63-65	56	60
66-68	25	26
69-71	14	10
72-74	3	6
75-77	5	2
78-80	3	1
81-83	1	1
84-86	1	-
87-89	-	-
90-92	1	-
TOTAL 0/00	1000	1000
SERIAL NUMBERS	-	-
NUMBER OF SAMPLES	3	7
NUMBER OF FISH MEASURED	1256	5199
MEAN LENGTH (CM)	57.9	54.78
MEAN WEIGHT (KG)	-	-
TOTAL WEIGHT LANDED (TONS)	-	-
ESTIMATED NUMBER LANDED	-	-
MESH OR HOOK SIZE	110	No. 5
RANGE OF DEPTHS (FM)	129-193	4-25

TABLE 9

LENGTH FREQUENCIES - COD - 2J - 1963

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)						
CATCHES/LANDINGS	CATCHES	CATCHES AFTER DISCARD					
MONTH	FEBRUARY	MAY	MAY	MAY	SEPTEMBER	SEPTEMBER	SEPTEMBER
COUNTRY	POLAND	PORTUGAL					
TONNAGE	2670	1287.6 t					
MORNING/EVENING			MORNING	EVENING		MORNING	EVENING
27-29	1	-	-	-	-	-	-
30-32	3	-	-	-	-	-	-
33-35	6	-	1	-	-	-	-
36-38	9	-	21	-	3	14	15
39-41	23	30	44	-	23	44	67
42-44	69	60	49	27	90	76	105
45-47	113	77	82	41	113	95	145
48-50	153	110	126	102	136	140	130
51-53	157	134	135	150	156	169	152
54-56	139	151	122	218	138	131	123
57-59	119	130	122	170	143	112	75
60-62	72	90	70	95	85	69	65
63-65	48	70	103	95	40	83	67
66-68	42	64	50	82	28	30	22
69-71	20	33	23	14	23	13	12
72-74	13	20	16	7	13	10	13
75-77	6	13	15	-	3	14	8
78-80	3	3	1	-	3	-	2
81-83	1	3	1	-	3	-	-
84-86	1	3	10	-	-	-	-
87-89	1	7	-	-	-	-	-
90-92	1	-	-	-	-	-	-
93-95	-	-	5	-	3	-	-
96-98	-	-	1	-	-	-	-
99-101	-	-	1	-	-	-	-
TOTAL ‰	1000	998	998	1001	1003	1000	1001
SERIAL NUMBERS	-	2-3-4	1-5-8-10	10	1)	2)	2)
NUMBER OF SAMPLES	2	3	4	1	5	4	4
NUMBER OF FISH MEASURED	3026	299	795	147	398	1000	600
MEAN LENGTH (CM)	53.6	56.0	55.4	56.4	53.7	53.4	51.9
MEAN WEIGHT (KG)	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-
MESH SIZE (MM)	100	114	114	114	114	114	114
RANGE OF DEPTHS (FM)	175-197	140-160	166-250	220	100-146	94-166	94-166

1) 12-23-26-27-28

2) 14-17-20-25

TABLE 9
(CONT'D)

LENGTH FREQUENCIES - COD - 2J - 1963

(FREQUENCIES IN % - 3 CM GROUPS)

GEAR	OTTER TRAWL			TRAP			JIGGER
	(EXPLORATORY)			(COMMERCIAL)			1)
CATCHES/LANDINGS	CATCHES			CATCHES-NO DISCARD			
MONTH	FEBRUARY	MARCH	APRIL	MAY	JULY	AUGUST	AUGUST
COUNTRY	U. S. S. R.			CANADA (NEWFOUNDLAND)			
TONNAGE	1800			0-25			
24-26	-	-	2	2	-	-	-
27-29	-	-	6	9	-	-	-
30-32	1	1	17	24	-	-	1
33-35	8	3	23	33	-	1	3
36-38	28	23	24	31	7	14	11
39-41	50	54	43	40	22	24	14
42-44	197	121	87	72	59	73	32
45-47	186	168	149	109	75	125	72
48-50	158	165	158	108	74	141	120
51-53	172	173	132	115	90	154	124
54-56	72	113	115	124	70	127	131
57-59	56	65	87	113	86	103	121
60-62	29	46	62	86	88	99	103
63-65	12	21	36	54	90	48	89
66-68	12	17	23	34	92	34	56
69-71	7	11	15	21	77	16	43
72-74	4	6	6	10	57	17	27
75-77	2	4	6	7	42	8	18
78-80	1	3	3	3	24	8	14
81-83	1	2	2	1	16	2	6
84-86	1	2	1	1	8	4	4
87-89	2	1	1	-	3	3	2
90-92	-	1	-	-	8	-	2
93-95	1	-	-	-	1	1	2
96-98	-	-	-	-	3	-	1
99-101	-	-	-	-	2	-	1
102-104	-	-	-	-	2	-	-
105-107	-	-	-	-	-	-	-
108-110	-	-	-	-	1	-	-
111-113	-	-	-	-	-	-	-
114-116	-	-	-	-	-	-	-
117-119	-	-	-	-	1	-	-
120-122	-	-	-	-	-	-	-
123-125	-	-	-	-	-	-	-
126-128	-	-	-	-	1	-	-
129-131	-	-	-	-	1	-	-
TOTAL %	1000	1000	998	998	1000	1002	997
SERIAL NUMBERS	-	-	-	-	4-7	89	-
NUMBER OF SAMPLES	-	12	50	56	4	2	4
NUMBER OF FISH MEASURED	1253	5186	34187	35636	1448	1062	5432
MEAN LENGTH (CM)	51.97	53.83	50.95	51.97	60.46	54.02	57.27
MEAN WEIGHT (KG)	-	-	1.00	1.35	-	-	-
TOTAL WEIGHT LANDED (TONS)	3090	245	10742	3584	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-
MESH SIZE (MM)	110	110	110	110	3½-4 ²⁾	3½-4 ²⁾	5 ³⁾
RANGE OF DEPTHS (FM)	139-175	129-210	102-255	134-189	9-11	10-14	5-25

- 1) (COMMERCIAL AND RESEARCH)
- 2) INCHES - COTTON
- 3) NUMBER

TABLE 10

LENGTH FREQUENCIES - COD - 3K - 1963

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

GEAR	OTTER TRAWL (COMMERCIAL)					
CATCHES/LANDINGS	CATCHES	CATCHES AFTER DISCARD				
MONTH	FEBRUARY	JULY	AUGUST	AUGUST	SEPTEMBER	SEPTEMBER
COUNTRY	POLAND	PORTUGAL				
TONNAGE	2670	1287.61				
MORNING/EVENING			MORNING	EVENING	MORNING	EVENING
24-26	2	-	-	-	-	-
27-29	4	-	-	-	-	-
30-32	6	-	-	-	-	-
33-35	9	-	-	-	-	-
36-38	20	4	15	7	-	-
39-41	40	16	48	67	4	20
42-44	84	32	73	67	48	33
45-47	149	48	103	200	64	67
48-50	179	96	140	127	80	113
51-53	153	173	153	113	180	147
54-56	119	161	173	127	112	107
57-59	83	193	100	60	108	120
60-62	51	76	70	73	116	113
63-65	35	64	50	33	128	127
66-68	21	72	20	40	16	7
69-71	13	36	18	53	32	53
72-74	12	20	13	7	36	13
75-77	6	-	15	13	32	27
78-80	3	-	3	-	4	7
81-83	3	-	5	-	-	27
84-86	2	-	3	7	40	20
87-89	2	-	-	-	-	-
90-92	2	-	-	-	-	-
93-95	1	-	3	-	-	-
96-98	1	4	-	7	-	-
99-101	-	-	-	-	-	-
102-104	-	-	-	-	-	-
105-107	-	-	-	-	-	-
108-110	-	4	-	-	-	-
TOTAL $\%$	1000	999	1005	1001	1000	1001
SERIAL NUMBERS	-	20-21-22	25-29	25	37	37
NUMBER OF SAMPLES	6	3	2	1	1	1
NUMBER OF FISH MEASURED	5387	249	400	150	250	150
MEAN LENGTH (CM)	51.7	56.5	53.5	51.9	58.1	57.9
MEAN WEIGHT (KG)	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH SIZE (MM)	100	114	114	114	114	114
RANGE OF DEPTHS (FM)	175-190	119-133	119-151	151	140	140

TABLE 10
(CONT'D)

LENGTH FREQUENCIES - COD - 3K - 1963

(FREQUENCIES IN $\frac{0}{00}$ - 3 CM GROUPS)

GEAR	OTTER TRAWL (EXPLORATORY)				LONG LINE	LINE TRAWL ¹⁾
	CATCHES				LANDINGS BEFORE DISCARD	
CATCHES/LANDINGS	CATCHES				LANDINGS BEFORE DISCARD	
MONTH	MARCH	APRIL	MAY	JUNE	JUNE	JUNE
COUNTRY	U. S. S. R.				CANADA (NEWFOUNDLAND)	
TONNAGE	1800				0-25	
21-23	-	-	2	1	-	-
24-26	2	1	3	3	-	-
27-29	6	2	9	12	-	-
30-32	28	3	19	39	-	-
33-35	45	18	30	81	-	1
36-38	67	38	34	125	2	10
39-41	80	78	44	169	2	29
42-44	126	133	84	154	4	58
45-47	183	200	150	179	2	84
48-50	165	201	151	116	22	124
51-53	115	129	123	57	44	129
54-56	75	73	102	35	44	197
57-59	42	39	73	12	44	120
60-62	21	10	58	9	68	82
63-65	15	16	37	5	72	67
66-68	8	8	25	1	82	54
69-71	6	8	17	1	103	32
72-74	4	14	11	1	93	27
75-77	3	8	9	-	80	16
78-80	2	5	7	-	73	10
81-83	1	3	4	-	56	8
84-86	1	3	3	-	50	4
87-89	2	3	2	-	27	2
90-92	2	6	1	-	34	3
93-95	-	-	1	-	20	1
96-98	-	-	-	-	15	1
99-101	-	-	-	-	16	-
102-104	-	-	-	-	12	1
105-107	-	-	-	-	15	-
108-110	-	1	-	-	7	-
111-113	-	-	-	-	2	-
114-116	-	-	-	-	6	-
117-119	-	-	-	-	-	-
120-122	-	-	-	-	2	-
123-125	-	-	-	-	2	-
126-140	-	-	-	-	1	-
TOTAL $\frac{0}{00}$	999	1000	999	1000	1000	1000
SERIAL NUMBERS	-	-	-	-	-	-
NUMBER OF SAMPLES	16	5	54	5	5	9
NUMBER OF FISH MEASURED	7017	1072	18262	3246	968	1763
MEAN LENGTH (CM)	47.29	49.12	51.13	43.0	73.32	56.07
MEAN WEIGHT (KG)	-	-	-	-	3.91	1.64
TOTAL WEIGHT LANDED (TONS)	3828	1335	836	37	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH OR HOOK SIZE	110 ²⁾	110 ²⁾	110 ²⁾	110 ²⁾	No. 15	No. 15
RANGE OF DEPTHS (FM)	164-220	139-150	-	102-261	130-150	4-35

1) LONGLINE PULLED BY HAND - SHALLOW

2) MESH SIZE - (MM)

TABLE 10
(CONT'D)

LENGTH FREQUENCIES - COD - 3K - 1963

(FREQUENCIES IN 0/00 - 3 CM GROUPS)

GEAR	HAND LINE		TRAP (COMMERCIAL)		JIGGER	GILL NET
	LANDINGS BEFORE DISCARD					
CATCHES/LANDINGS	LANDINGS BEFORE DISCARD					
MONTH	JUNE	JULY	JUNE	JULY	JULY	SEPTEMBER
COUNTRY	CANADA (NEWFOUNDLAND)					
TONNAGE	0-25					
33-35	4	-	1	1	-	1
36-38	8	-	10	9	6	3
39-41	33	6	35	24	29	3
42-44	69	21	67	50	41	5
45-47	107	34	101	80	45	4
48-50	144	70	130	100	71	3
51-53	136	113	140	113	109	2
54-56	140	153	130	120	121	8
57-59	116	161	116	117	125	11
60-62	91	144	83	98	117	28
63-65	68	96	66	78	94	54
66-68	38	84	41	60	80	86
69-71	25	54	26	51	62	107
72-74	9	34	24	37	42	131
75-77	8	16	12	23	26	140
78-80	3	6	7	17	13	98
81-83	1	2	5	10	8	72
84-86	-	3	2	5	4	64
87-89	-	-	2	3	4	44
90-92	-	2	1	2	1	37
93-95	-	-	1	1	1	30
96-98	-	1	-	1	1	20
99-101	-	-	-	-	-	16
102-104	-	-	-	-	-	7
105-107	-	-	-	-	-	6
108-110	-	-	-	-	-	3
111-113	-	-	-	-	-	3
114-116	-	-	-	-	-	4
117-119	-	-	-	-	-	3
120-122	-	-	-	-	-	4
123-125	-	-	-	-	-	1
126-128	-	-	-	-	-	1
135-137	-	-	-	-	-	1
TOTAL 0/00	1000	1000	1000	1000	1000	1000
SERIAL NUMBERS	-	-	-	-	-	-
NUMBER OF SAMPLES	6	8	22	31	19	26
NUMBER OF FISH MEASURED	1181	2416	4105	8686	2877	2467
MEAN LENGTH (CM)	53.98	58.97	54.87	57.55	58.82	77.00
MEAN WEIGHT (KG)	1.48	1.96	1.60	1.92	2.07	4.48
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH OR HOOK SIZE	No.3021	No.3020	4 ¹⁾	4 ²⁾	No.5	6-7 ³⁾
RANGE OF DEPTHS (FM)	7-15	3-15	9-18	8-17	6-20	17-70

1) INCHES - COTTON

2) INCHES

3) INCHES - NYLON

TABLE 11

LENGTH FREQUENCIES - COD - 3L - 1963

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)				
	CATCHES		CATCHES AFTER DISCARD		
CATCHES/LANDINGS	JANUARY	NOVEMBER	JUNE	JUNE	JUNE
MONTH	POLAND		PORTUGAL		
COUNTRY	2670		1287.61		
TONNAGE					
MORNING/EVENING			MORNING		EVENING
18-20	1	-	-	-	-
21-23	5	-	-	-	-
24-26	27	-	-	-	-
27-29	48	-	-	-	-
30-32	80	-	-	-	-
33-35	109	20	-	-	-
36-38	129	14	-	-	-
39-41	156	27	-	5	10
42-44	143	68	12	22	20
45-47	113	54	37	33	40
48-50	72	109	68	56	90
51-53	38	82	71	40	80
54-56	27	123	93	64	50
57-59	12	109	65	67	130
60-62	9	75	65	73	70
63-65	7	27	96	76	110
66-68	5	20	77	100	80
69-71	3	20	83	71	40
72-74	5	68	96	76	70
75-77	3	41	56	69	60
78-80	3	61	31	42	20
81-83	1	41	40	40	60
84-86	1	27	37	40	20
87-89	1	7	28	27	-
90-92	-	-	3	18	10
93-95	1	7	3	16	20
96-98	-	-	6	18	10
99-101	1	-	12	16	-
102-104	-	-	9	7	-
105-107	-	-	6	-	10
108-110	-	-	-	4	-
111-113	-	-	3	7	-
114-116	-	-	-	4	-
117-119	-	-	-	2	-
120-122	-	-	-	-	-
123-125	-	-	3	-	-
129-131	-	-	-	2	-
132-134	-	-	-	2	-
141-143	-	-	-	2	-
TOTAL ‰	1000	1000	1000	999	1000
SERIAL NUMBERS	-	-	4-5-8-12	3-6-11	6
NUMBER OF SAMPLES	3	1	4	3	1
NUMBER OF FISH MEASURED	2151	147	324	550	100
MEAN LENGTH (CM)	41.2	59.1	66.4	69.0	64.2
MEAN WEIGHT (KG)	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-
MESH SIZE (MM)	100	100	114	114	114
RANGE OF DEPTHS (FM)	175-190	-	90-105	60-120	97-100

TABLE 11
(CONT'D)

LENGTH FREQUENCIES - COD - 3L - 1963

(FREQUENCIES IN % - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)							
	CATCHES							LANDINGS ¹⁾
CATCHES/LANDINGS	CATCHES							LANDINGS ¹⁾
MONTH	JULY	JULY	JULY	AUGUST	AUGUST	SEPTEMBER	SEPTEMBER	MAY
COUNTRY	PORTUGAL							CAN. (NFLD.)
TONNAGE	1287.61							151-500
MORNING/EVENING		MORNING	EVENING	MORNING	EVENING			
36-38	-	20	7	-	-	-	8	-
39-41	-	40	100	32	40	16	20	-
42-44	20	75	120	32	7	36	68	-
45-47	53	108	120	68	47	68	80	-
48-50	67	128	40	92	107	92	116	-
51-53	127	95	53	76	73	92	116	-
54-56	193	120	140	96	107	100	144	38
57-59	133	85	93	72	100	16	108	19
60-62	100	98	100	96	87	132	60	38
63-65	67	98	93	136	107	100	60	38
66-68	100	45	80	40	67	16	36	38
69-71	33	53	53	24	27	32	40	66
72-74	27	18	-	40	33	56	28	94
75-77	20	10	-	32	40	52	20	85
78-80	20	3	-	24	40	12	20	132
81-83	20	3	-	16	7	24	36	47
84-86	13	-	-	68	13	64	20	66
87-89	-	3	-	12	20	4	-	66
90-92	7	3	-	8	7	12	-	104
93-95	-	-	-	16	47	44	4	28
96-98	-	-	-	8	7	24	-	38
99-101	-	-	-	4	13	4	4	28
102-104	-	-	-	-	7	-	-	28
105-107	-	-	-	4	-	-	-	29
108-110	-	-	-	-	-	-	-	9
111-113	-	-	-	4	-	4	8	-
114-116	-	-	-	-	-	-	-	-
117-119	-	-	-	-	-	-	-	9
120-122	-	-	-	-	-	-	4	-
TOTAL %	1000	1005	999	1000	1003	1000	1000	1000
SERIAL NUMBERS	13-17	15-18	18	34	34	40	38-39-41	-
NUMBER OF SAMPLES	2	2	1	1	1	1	3	1
NUMBER OF FISH MEASURED	150	400	150	250	150	250	250	106
MEAN LENGTH (CM)	58.4	54.9	53.8	62.4	62.9	63.5	58.3	80.71
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	5.23
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-	-	571
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	109196
MESH SIZE (MM)	114	114	114	114	114	114	114	412)
RANGE OF DEPTHS (FM)	150-161	150-157	150	141	141	157	121-148	55

1) LANDINGS AFTER DISCARD

2) INCHES - MANILLA

TABLE 11
(CONT'D)

LENGTH FREQUENCIES - COD - 3L - 1963

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

GEAR	LINE TRAWL 1)			LONG LINE 2)		LONG LINE 3)	HAND LINE		
	(COMMERCIAL)								
CATCHES/LANDINGS									
LANDINGS BEFORE DISCARD									
MONTH	SEPTEMBER	OCTOBER	NOVEMBER	JULY	SEPTEMBER	SEPTEMBER	JUNE	JULY	SEPTEMBER
COUNTRY	CANADA (NEWFOUNDLAND)								
TONNAGE	0-25			26-50			0-25		
	33-35	-	-	-	1	-	-	-	-
36-38	16	-	17	2	2	1	5	5	6
39-41	8	-	8	6	-	4	17	10	31
42-44	24	-	50	11	4	14	50	34	37
45-47	32	24	17	20	20	27	149	67	63
48-50	47	24	58	52	20	51	127	103	86
51-53	75	32	75	78	21	72	133	139	90
54-56	130	105	100	100	68	92	138	165	113
57-59	162	169	50	116	104	105	99	156	123
60-62	154	105	75	108	98	113	94	103	104
63-65	130	177	83	99	98	97	61	78	97
66-68	55	105	83	88	88	75	39	40	70
69-71	40	89	100	86	98	76	22	41	51
72-74	83	82	75	61	92	74	33	20	43
75-77	20	40	75	37	72	51	28	17	29
78-80	4	32	83	35	70	45	-	7	17
81-83	8	8	-	27	49	28	-	4	12
84-86	4	-	33	21	33	22	-	3	8
87-89	4	8	8	12	25	16	5	4	6
90-92	-	-	8	11	6	8	-	2	5
93-95	-	-	-	5	8	10	-	2	3
96-98	-	-	-	5	2	5	-	-	3
99-101	-	-	-	4	6	5	-	-	2
102-104	4	-	-	2	-	5	-	-	-
105-107	-	-	-	2	4	2	-	-	-
108-110	-	-	-	2	2	1	-	-	-
111-113	-	-	-	1	4	1	-	-	-
114-116	-	-	-	2	2	-	-	-	1
117-119	-	-	-	-	-	-	-	-	-
120-122	-	-	-	2	-	-	-	-	-
123-125	-	-	-	1	-	-	-	-	-
126-128	-	-	-	1	2	-	-	-	-
132-134	-	-	-	-	2	-	-	-	-
135-137	-	-	-	1	-	-	-	-	-
141-143	-	-	-	1	-	-	-	-	-
TOTAL $\%$	1000	1000	998	1000	1000	1000	1000	1000	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	2	1	1	15	3	12	1	13	11
NUMBER OF FISH MEASURED	253	124	120	2019	511	2759	181	2420	1637
MEAN LENGTH (CM)	60.02	63.43	63.57	64.60	68.69	64.89	55.11	56.96	59.23
MEAN WEIGHT (KG)	2.05	2.34	2.50	2.63	3.20	2.68	1.65	1.79	2.07
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
HOOK SIZE (NUMBER)	15	15	15	17	17	17	3020 & 3021		
RANGE OF DEPTHS (FM)	28-35	45-60	45-60	120-155	120-140	10-60	7-8	4-20	10-30

1) LONG LINE PULLED BY HAND - SHALLOW WATER

2) DEEP INSHORE

3) SHALLOW INSHORE

TABLE 11
(CONT'D)

LENGTH FREQUENCIES - COD - 3L - 1963

(FREQUENCIES IN 0/00 - 3 CM GROUPS)

GEAR	TRAP			JIGGER	GILL NET	
	(COMMERCIAL)					
CATCHES/LANDINGS	LANDINGS BEFORE DISCARD					
MONTH	JUNE	JULY	AUGUST	JULY	JUNE	JULY
COUNTRY	CANADA (NEWFOUNDLAND)					
TONNAGE	0-25					
30-32	-	1	-	-	-	-
33-35	5	5	3	-	-	-
36-38	19	21	38	8	-	-
39-41	48	48	91	56	-	-
42-44	83	76	143	101	-	-
45-47	129	117	124	118	-	-
48-50	170	133	154	124	-	-
51-53	157	141	124	140	-	-
54-56	145	127	116	134	-	-
57-59	100	97	94	114	-	1
60-62	53	68	55	73	8	10
63-65	35	46	27	45	17	21
66-68	20	30	25	29	27	48
69-71	14	24	-	21	85	102
72-74	8	21	3	18	122	131
75-77	6	14	3	3	129	155
78-80	4	12	-	3	139	130
81-83	1	7	-	7	129	93
84-86	1	3	-	1	95	73
87-89	-	3	-	2	56	57
90-92	-	3	-	2	56	47
93-95	-	1	-	-	60	37
96-98	1	1	-	1	31	35
99-101	1	1	-	-	15	20
102-104	-	-	-	-	17	16
105-107	-	-	-	-	8	7
108-110	-	-	-	-	2	11
111-113	-	-	-	-	4	2
114-116	-	-	-	-	-	2
117-119	-	-	-	-	-	2
TOTAL 0/00	1000	1000	1000	1000	1000	1000
SERIAL NUMBERS	-	-	-	-	-	-
NUMBER OF SAMPLES	6	32	1	5	1	7
NUMBER OF FISH MEASURED	1810	8778	363	1131	482	1778
MEAN LENGTH (CM)	52.08	53.99	50.03	53.28	81.12	80.26
MEAN WEIGHT (KG)	1.39	1.60	1.24	1.51	4.87	4.76
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH OR HOOK SIZE	4 ¹⁾	4 ¹⁾	4 ¹⁾	No. 5	6-7 ²⁾	6-7 ³⁾
RANGE OF DEPTHS (FM)	9-14	9-17	14-16	7-16	12-25	10-18

1) INCHES - COTTON

2) INCHES

3) INCHES - NYLON

TABLE 12

LENGTH FREQUENCIES - COD - 3M - 1963

(FREQUENCIES IN 0/00 - 3 CM GROUPS)

GEAR	OTTER TRAWL	
	(COMMERCIAL)	(EXPLORATORY)
CATCHES/LANDINGS	CATCHES	
MONTH	MARCH	MARCH
COUNTRY	POLAND	U. S. S. R.
TONNAGE	2670	1800
36-38	2	-
39-41	2	1
42-44	33	12
45-47	60	56
48-50	127	122
51-53	188	162
54-56	146	162
57-59	174	44
60-62	70	127
63-65	91	93
66-68	57	60
69-71	21	32
72-74	19	15
75-77	5	7
78-80	2	6
81-83	1	-
84-86	-	1
87-89	1	-
90-92	1	-
TOTAL 0/00	1000	1000
SERIAL NUMBERS	-	-
NUMBER OF SAMPLES	24	4
NUMBER OF FISH MEASURED	4041	3163
MEAN LENGTH (CM)	56.02	56.9
MEAN WEIGHT (KG)	-	-
TOTAL WEIGHT LANDED (TONS)	3792	-
ESTIMATED NUMBER LANDED	-	-
MESH SIZE (MM)	110	100
RANGE OF DEPTHS (FM)	-	227-235

TABLE 13

LENGTH FREQUENCIES - COD - 3N - 1963

(FREQUENCIES IN $\frac{0}{00}$ - 3 CM GROUPS)

GEAR	OTTER TRAWL			
	(COMMERCIAL)		(EXPLORATORY)	
CATCHES/LANDINGS	LANDINGS AFTER DISCARD		CATCHES	
MONTH	APRIL	MAY	JULY	AUGUST
COUNTRY	CANADA (NEWFOUNDLAND)		U. S. S. R.	
TONNAGE	151-500		1800	
27-29	-	-	-	4
30-32	-	-	-	9
33-35	-	-	1	-
36-38	-	3	11	26
39-41	-	14	16	48
42-44	6	31	41	72
45-47	42	103	100	97
48-50	87	147	155	125
51-53	68	72	125	127
54-56	68	68	103	110
57-59	126	82	102	95
60-62	116	62	106	48
63-65	81	86	65	48
66-68	90	38	46	32
69-71	65	55	41	16
72-74	58	31	22	18
75-77	36	38	27	23
78-80	48	48	21	27
81-83	45	34	12	18
84-86	32	20	3	16
87-89	16	31	3	9
90-92	10	-	-	7
93-95	6	7	-	8
96-98	-	17	-	6
99-101	-	-	-	3
102-104	-	-	-	5
105-107	-	3	-	-
108-110	-	-	-	1
111-113	-	-	-	2
114-116	-	10	-	-
TOTAL $\frac{0}{00}$	1000	1000	1000	1000
SERIAL NUMBERS	-	-	-	-
NUMBER OF SAMPLES	1	1	7	11
NUMBER OF FISH MEASURED	310	292	1792	1404
MEAN LENGTH (CM)	63.93	61.80	56.59	56.32
MEAN WEIGHT (KG)	2.45	2.52	1.98	1.65
TOTAL WEIGHT LANDED (TONS)	102	160	-	-
ESTIMATED NUMBER LANDED	41643	63580	-	-
MESH SIZE (MM)	4 $\frac{1}{2}$)	4 $\frac{1}{2}$)	110	110
RANGE OF DEPTHS (FM)	90-105	55-90	-	44-64

1) INCHES - MANILLA

TABLE 14

LENGTH FREQUENCIES - COD - 30 - 1963

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)	
CATCHES/LANDINGS	LANDINGS AFTER DISCARD	
MONTH	MAY	JUNE
COUNTRY	CANADA (NEWFOUNDLAND)	
TONNAGE	151-500	
36-38	1	-
39-41	2	7
42-44	13	24
45-47	44	107
48-50	74	168
51-53	82	196
54-56	82	152
57-59	79	110
60-62	71	113
63-65	52	21
66-68	53	48
69-71	45	14
72-74	55	7
75-77	76	7
78-80	73	10
81-83	67	3
84-86	55	3
87-89	35	7
90-92	20	-
93-95	8	-
96-98	5	-
99-101	2	3
102-104	1	-
105-107	-	-
108-110	-	-
111-113	2	-
114-116	1	-
117-119	1	-
120-122	-	-
123-125	1	-
TOTAL ‰	1000	1000
SERIAL NUMBERS	-	-
NUMBER OF SAMPLES	9	1
NUMBER OF FISH MEASURED	1927	291
MEAN LENGTH (CM)	66.79	55.08
MEAN WEIGHT (KG)	2.87	1.44
TOTAL WEIGHT LANDED (TONS)	1900	57
ESTIMATED NUMBER LANDED	662817	39576
MESH SIZE (INCHES)	4 1/8-4 5/8 ¹⁾	4 1/2 ²⁾
RANGE OF DEPTHS (FM)	55-110	40-90

1) NYLON, MANILLA, TERYLENE

2) MANILLA

TABLE 15

LENGTH FREQUENCIES - COD - 3PN - 1963

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	LINE TRAWL (LONG LINE PULLED BY HAND)
CATCHES/LANDINGS	LANDINGS BEFORE DISCARD
MONTH	MARCH
COUNTRY	CANADA (NEWFOUNDLAND)
TONNAGE	0-25
36-38	1
39-41	10
42-44	14
45-47	34
48-50	56
51-53	87
54-56	118
57-59	124
60-62	123
63-65	117
66-68	109
69-71	74
72-74	44
75-77	31
78-80	19
81-83	11
84-86	8
87-89	7
90-92	1
93-95	3
96-98	1
99-101	3
102-104	1
105-107	2
108-110	1
111-113	1
TOTAL ‰	1000
SERIAL NUMBERS	-
NUMBER OF SAMPLES	5
NUMBER OF FISH MEASURED	1971
MEAN LENGTH (CM)	61.60
MEAN WEIGHT (KG)	2.28
TOTAL WEIGHT LANDED (TONS)	-
ESTIMATED NUMBER LANDED	-
HOOK SIZE (NUMBER)	6/0
RANGE OF DEPTHS (FM)	45-120

TABLE 16

LENGTH FREQUENCIES - COD - 9Ps - 1963

(FREQUENCIES IN %/00 - 3 CM GROUPS)

GEAR	LINE TRAWL		TRAP		GILL NET			
	(COMMERCIAL)							
CATCHES/LANDINGS	LANDINGS BEFORE DISCARD							
MONTH	MAY	SEPTEMBER	JUNE	JULY	MAY	JUNE	JULY	SEPTEMBER
COUNTRY	CANADA (NEWFOUNDLAND)							
TONNAGE	0-25							
30-32	-	-	2	6	-	-	-	-
33-35	-	-	10	42	-	-	-	-
36-38	20	2	44	128	-	-	-	-
39-41	42	32	102	162	-	1	1	-
42-44	71	59	124	146	2	1	-	7
45-47	126	80	132	129	4	1	1	3
48-50	101	82	130	97	3	3	1	5
51-53	116	103	116	82	4	5	3	4
54-56	96	130	112	64	10	8	12	11
57-59	74	87	84	47	26	19	33	12
60-62	84	101	54	37	67	37	49	22
63-65	49	93	33	24	107	79	94	22
66-68	47	53	22	17	140	121	126	46
69-71	47	43	14	8	145	146	144	63
72-74	28	26	10	5	141	160	147	80
75-77	34	18	5	4	98	138	122	108
78-80	25	15	3	2	96	83	91	122
81-83	10	11	1	-	49	69	55	100
84-86	10	10	1	-	45	45	48	89
87-89	7	12	-	-	17	30	27	73
90-92	7	7	-	-	14	15	13	58
93-95	2	8	-	-	10	10	12	49
96-98	-	5	-	-	7	8	8	41
99-101	-	7	-	-	7	11	1	24
102-104	-	8	-	-	3	1	4	20
105-107	2	3	-	-	3	4	4	14
108-110	-	1	-	-	-	3	2	12
111-113	-	1	-	-	-	-	1	3
114-116	-	1	-	-	-	-	-	3
117-119	-	1	-	-	2	1	-	5
120-122	2	1	-	-	-	1	-	-
123-125	-	-	-	-	-	-	1	3
126-128	-	-	-	-	-	-	-	1
TOTAL %/00	1000	1000	999	1000	1000	1000	1000	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	2	15	21	10	13	16	13	11
NUMBER OF FISH MEASURED	406	1296	3851	2403	1131	1416	1357	730
MEAN LENGTH (CM)	59.31	59.37	50.37	46.62	72.27	73.84	73.03	81.26
MEAN WEIGHT (KG)	1.77	2.16	1.34	1.10	3.43	3.82	3.66	4.82
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-
MESH OR HOOK SIZE	1)	1)	42)	42)	6-73)	6-73)	6-73)	6-73)
RANGE OF DEPTHS (FM)	35-60	8-70	11-18	12-15 ²	40-70	18-65	10-60	20-60

1) NUMBERS 15,16,6/0

2) INCHES - COTTON

3) INCHES - NYLON

TABLE 17

LENGTH FREQUENCIES - COD - 4R - 1963

(FREQUENCIES IN 0/00 - 3 CM GROUPS)

GEAR	OTTER TRAWL		TRAP
	(COMMERCIAL)		
CATCHES/LANDINGS	CATCHES ¹⁾	LANDINGS	CATCHES ²⁾
MONTH	AUGUST	JULY	JULY
COUNTRY	PORTUGAL	CANADA (MARITIMES)	CANADA (NEWFOUNDLAND)
TONNAGE	1287.61	151-500	0-25
24-26	-	-	1
27-29	-	-	11
30-32	-	-	53
33-35	-	-	107
36-38	-	-	198
39-41	-	5	212
42-44	7	20	124
45-47	120	64	88
48-50	93	111	73
51-53	113	145	55
54-56	73	106	28
57-59	13	85	17
60-62	93	64	11
63-65	120	52	16
66-68	80	77	8
69-71	73	77	1
72-74	20	64	-
75-77	27	43	-
78-80	7	33	-
81-83	27	14	-
84-86	53	4	-
87-89	20	13	-
90-92	-	3	-
93-95	40	4	-
96-98	7	3	-
99-101	7	3	-
102-104	-	2	-
105-107	-	3	-
108-110	-	-	-
111-113	-	-	-
114-116	-	1	-
117-119	7	1	-
120-122	-	1	-
123-125	-	-	-
126-128	-	2	-
129-131	-	1	-
TOTAL 0/00	1000	1001	1009
SERIAL NUMBERS	3	1	1-3
NUMBER OF SAMPLES	1	1	3
NUMBER OF FISH MEASURED	150	402	1143
MEAN LENGTH (CM)	62.5	61.0	41.94
MEAN WEIGHT (KG)	-	2.17	-
TOTAL WEIGHT LANDED (TONS)	-	-	-
ESTIMATED NUMBER LANDED	-	-	-
MESH SIZE (MM)	114	4 5/8 ³⁾	3 1/2-4 ⁴⁾
RANGE OF DEPTHS (FM)	-	35-40	4-9

- 1) AFTER DISCARD
- 2) NO DISCARD
- 3) INCHES
- 4) INCHES - COTTON

TABLE 18

LENGTH FREQUENCIES - COD - 4S - 1963

(FREQUENCIES IN $\frac{0}{00}$ - 3 CM GROUPS)

GEAR	OTTER TRAWL					
	(COMMERCIAL)		(NK)			
CATCHES/LANDINGS	LANDINGS		NK			
MONTH	JUNE	SEPTEMBER	AUGUST	OCTOBER	OCTOBER	OCTOBER
COUNTRY	CANADA (MARITIMES)		CANADA (QUEBEC)			
TONNAGE	26-50	51-150	NK			
36-38	10	-	8	2	9	6
39-41	42	-	36	34	29	50
42-44	90	12	107	113	99	47
45-47	74	52	130	167	110	69
48-50	112	93	168	123	136	110
51-53	137	198	112	155	151	141
54-56	150	215	117	145	139	157
57-59	163	157	102	101	110	116
60-62	74	140	74	57	55	94
63-65	85	58	64	39	38	66
66-68	24	29	43	15	43	41
69-71	15	23	10	15	14	44
72-74	3	6	8	7	9	28
75-77	7	12	5	10	12	-
78-80	6	-	10	7	12	13
81-83	2	6	-	2	17	3
84-86	3	-	5	2	6	9
87-89	1	-	-	2	3	6
90-92	-	-	-	-	6	-
93-95	-	-	-	-	3	-
96-98	-	-	-	-	-	-
99-101	1	-	-	-	-	-
TOTAL $\frac{0}{00}$	999	1001	999	996	1001	1000
SERIAL NUMBERS	2	3	-	-	-	-
NUMBER OF SAMPLES	1	1	1	1	1	1
NUMBER OF FISH MEASURED	403	172	392	406	345	319
MEAN LENGTH (CM)	54.2	56.3	53.13	52.50	54.44	55.93
MEAN WEIGHT (KG)	1.43	1.60	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	2.11	1.97	1.02	1.01
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH SIZE (INCHES)	4½	4½	4½	4½	4½	4½
RANGE OF DEPTHS (FM)	50	120-130	40-45	100	120	130

TABLE 19

LENGTH FREQUENCIES - COD - 4T - 1963

(FREQUENCIES IN $\frac{0}{00}$ - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)									
CATCHES/LANDINGS	LANDINGS									
MONTH	JUNE	JUNE	JULY	JULY	AUGUST	SEPTEMBER	SEPTEMBER	OCTOBER	OCTOBER	
COUNTRY	CANADA (MARITIMES)									
TONNAGE	26-50	51-150	26-50	51-150	26-50	26-50	51-150	26-50	51-150	
33-35	-	-	-	-	-	1	-	5	-	
36-38	6	3	13	8	12	38	16	78	106	
39-41	48	34	38	43	33	90	68	162	187	
42-44	127	91	148	123	99	120	112	130	116	
45-47	207	146	217	198	166	150	156	122	128	
48-50	194	163	189	175	158	174	165	98	161	
51-53	121	156	134	136	140	135	135	118	100	
54-56	120	134	101	116	104	111	125	88	65	
57-59	74	89	61	74	81	77	85	63	49	
60-62	30	67	40	52	56	41	58	41	33	
63-65	20	38	21	30	36	24	40	21	24	
66-68	17	26	14	15	21	12	18	16	12	
69-71	10	13	8	9	16	10	13	4	2	
72-74	-	12	6	5	11	3	2	8	6	
75-77	7	10	3	4	11	1	3	7	3	
78-80	13	4	2	4	15	4	1	7	1	
81-83	3	7	2	2	8	2	-	9	1	
84-86	-	2	1	3	8	2	1	3	-	
87-89	-	1	1	1	7	1	-	6	1	
90-92	-	1	-	1	4	1	-	4	-	
93-95	-	-	1	1	3	-	-	-	1	
96-98	3	-	1	-	3	1	-	2	1	
99-101	-	1	-	-	2	-	-	1	-	
102-104	-	-	-	-	2	-	-	1	1	
105-107	-	-	-	-	2	-	-	1	-	
108-110	-	1	-	-	1	-	-	3	-	
111-113	-	-	-	-	1	-	-	1	-	
114-116	-	1	-	-	1	-	-	2	1	
TOTAL $\frac{0}{00}$	1000	1000	1001	999	1001	998	998	1001	999	
SERIAL NUMBERS	6	19-21	7-11	22-25	12-15	16-17	26-28	18	29	
NUMBER OF SAMPLES	1	3	5	4	4	2	3	1	1	
NUMBER OF FISH MEASURED	441	1008	1844	1389	1612	946	1523	514	516	
MEAN LENGTH (CM)	50.9	53.0	50.2	51.1	54.0	50.0	51.1	50.0	47.6	
MEAN WEIGHT (KG)	1.22	1.33	1.22	1.28	1.61	1.28	1.33	1.36	1.13	
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-	-	-	-	
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-	
MESH SIZE (INCHES)	4 $\frac{5}{8}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$ -4 $\frac{3}{4}$	4 $\frac{1}{8}$ -4 $\frac{3}{4}$	4 $\frac{1}{2}$ -5	4 $\frac{5}{8}$ -4 $\frac{3}{4}$	4 $\frac{1}{2}$	4 $\frac{3}{4}$	4 $\frac{1}{2}$	
RANGE OF DEPTHS (FM)	50	60-90	40-80	40-60	20-50	25-35	16-50	40-60	50-80	

TABLE 19
(CONT'D)

LENGTH FREQUENCIES - COD - 4T - 1963

(FREQUENCIES IN $\frac{0}{00}$ - 3 CM GROUPS)

GEAR	OTTER TRAWL (NK)									
	NK									
CATCHES/LANDINGS	NK									
MONTH	JUNE	JUNE	JUNE	AUGUST	AUGUST	AUGUST	SEPTEMBER	SEPTEMBER	SEPTEMBER	OCTOBER
COUNTRY	CANADA (QUEBEC)									
TONNAGE	NK									
30-32	-	4	-	-	-	-	-	-	-	-
33-35	-	2	-	3	-	4	-	5	-	3
36-38	18	8	7	3	2	16	14	38	10	36
39-41	45	66	62	71	37	80	85	79	47	138
42-44	88	164	183	159	94	144	119	126	94	135
45-47	106	224	177	151	114	237	78	153	129	138
48-50	167	176	168	151	176	196	190	126	203	128
51-53	137	114	141	116	181	124	105	115	158	130
54-56	127	87	99	111	144	74	136	100	109	125
57-59	82	60	73	78	64	54	92	72	79	76
60-62	71	43	35	79	79	27	54	57	50	23
63-65	33	19	13	48	52	16	44	48	52	18
66-68	18	8	11	15	17	4	27	21	35	8
69-71	27	8	11	10	7	12	31	29	12	18
72-74	16	6	7	5	10	4	17	7	10	5
75-77	18	2	7	3	12	2	-	12	10	5
78-80	12	2	-	5	2	-	3	10	-	-
81-83	4	2	2	-	5	2	-	-	-	-
84-86	4	-	2	-	-	-	-	2	-	5
87-89	-	2	-	-	2	-	-	-	-	3
90-92	10	-	2	-	-	2	-	-	-	3
93-95	-	-	-	-	-	-	3	-	2	-
96-98	4	-	-	-	-	-	-	-	-	-
99-101	2	-	-	-	-	-	-	-	-	-
102-104	2	-	-	-	-	-	-	-	-	-
105-107	2	2	-	-	-	-	-	-	-	3
108-110	-	-	-	-	-	-	-	-	-	-
111-113	-	-	-	-	-	-	-	-	-	-
114-116	4	-	-	-	-	-	-	-	-	-
117-119	-	-	-	-	-	-	-	-	-	-
120-122	-	-	-	-	-	-	-	-	-	-
123-125	-	-	-	-	-	-	-	-	-	-
126-128	2	-	-	-	-	-	-	-	-	-
TOTAL $\frac{0}{00}$	999	999	1000	1002	998	998	998	1000	1000	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	1	1	1	1	1	1	-	-	-	1
NUMBER OF FISH MEASURED	490	483	453	397	404	485	294	419	404	384
MEAN LENGTH (CM)	54.63	49.99	50.03	51.03	52.76	48.93	52.11	51.40	52.19	49.70
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	.9	24	15	5	11	8	.3	8	4	5
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$
RANGE OF DEPTHS (FM)	45-50	50-60	40-60	45-50	55-60	90-95	130	70	40	100-110

TABLE 19
(CONT'D)

LENGTH FREQUENCIES - COD - 4T - 1963

(FREQUENCIES IN $\frac{0}{00}$ - 3 CM GROUPS)

GEAR	LINE TRAWL			DANISH SEINE		GILL NET			
	(NK)			(COMMERCIAL)		(NK)			
CATCHES/LANDINGS	NK			LANDINGS		NK			
MONTH	NK	NK	NK	JULY	SEPTEMBER	JULY	JULY	JULY	AUGUST
COUNTRY	CANADA (QUEBEC)			CANADA (MARITIMES)		CANADA (QUEBEC)			
TONNAGE	NK			26-50		NK			
36-38	2	-	14	34	28	-	-	18	13
39-41	2	21	26	106	123	-	-	-	-
42-44	9	29	61	187	116	51	9	18	-
45-47	26	57	89	229	183	136	9	9	-
48-50	60	57	87	227	171	85	-	9	-
51-53	76	93	136	101	151	153	26	9	25
54-56	106	93	129	60	111	136	78	61	38
57-59	112	79	129	11	59	85	78	44	139
60-62	151	107	122	14	26	102	224	158	127
63-65	102	93	47	17	15	68	103	132	101
66-68	78	57	33	5	8	51	95	140	152
69-71	84	29	37	2	3	34	129	193	152
72-74	54	21	19	2	3	17	103	96	25
75-77	39	21	26	1	-	34	34	44	51
78-80	22	21	16	2	-	17	69	26	13
81-83	11	21	9	-	-	34	9	-	63
84-86	15	7	-	1	-	-	26	18	13
87-89	9	7	2	-	-	-	-	9	25
90-92	6	14	5	-	2	-	-	-	25
93-95	9	29	2	-	-	-	-	9	-
96-98	15	21	5	-	-	-	9	-	25
99-101	2	7	-	-	-	-	-	9	13
102-104	-	43	2	-	2	-	-	-	-
105-107	2	29	2	-	-	-	-	-	-
108-110	2	-	-	-	-	-	-	-	-
111-113	2	7	-	-	-	-	-	-	-
114-116	-	7	-	-	-	-	-	-	-
117-119	-	-	-	-	-	-	-	-	-
120-122	2	7	-	-	-	-	-	-	-
123-125	2	7	-	-	-	-	-	-	-
126-128	-	-	-	-	-	-	-	-	-
129-131	-	-	2	-	-	-	-	-	-
141-143	-	7	-	-	-	-	-	-	-
144-146	-	7	-	-	-	-	-	-	-
TOTAL $\frac{0}{00}$	1000	998	1000	999	1001	1003	1001	1002	1000
SERIAL NUMBERS	-	-	-	4	5	-	-	-	-
NUMBER OF SAMPLES	1	1	3	1	1	1	1	1	1
NUMBER OF FISH MEASURED	537	140	427	366	369	59	116	114	79
MEAN LENGTH (CM)	63.63	67.78	56.88	47.3	48.9	57.08	65.77	65.97	68.22
MEAN WEIGHT (KG)	-	-	-	0.96	1.15	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	11	.4	-	-	-	.4	.6	.7	.4
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	-	4 $\frac{1}{2}$	4 $\frac{1}{2}$	5 $\frac{1}{2}$	5 $\frac{1}{2}$	4	5 $\frac{1}{2}$
RANGE OF DEPTHS (FM)	34	28	18-20	50	20-25	23	18-20	20	30

TABLE 20

LENGTH FREQUENCIES - COD - 4VN - 1963

(FREQUENCIES IN 0/00 - 3 CM GROUPS)

GEAR	OTTER TRAWL		LONG LINE		
	(COMMERCIAL)				
CATCHES/LANDINGS	LANDINGS				
MONTH	APRIL	MAY	JULY	SEPTEMBER	NOVEMBER
COUNTRY	CANADA (MARITIMES)				
TONNAGE	151-500		0-25		
33-35	-	17	2	-	-
36-38	-	76	5	-	14
39-41	16	153	14	28	31
42-44	55	137	43	28	37
45-47	117	161	32	85	48
48-50	152	183	47	134	110
51-53	192	102	85	125	144
54-56	162	67	140	228	134
57-59	128	36	165	79	126
60-62	62	19	144	96	84
63-65	42	15	103	57	80
66-68	28	8	62	49	42
69-71	14	6	82	32	38
72-74	10	3	22	19	28
75-77	3	3	9	19	38
78-80	5	3	8	11	14
81-83	4	2	10	4	9
84-86	2	2	7	1	6
87-89	3	1	5	-	3
90-92	2	1	5	1	4
93-95	1	3	3	1	4
96-98	1	1	1	1	2
99-101	1	1	1	1	-
102-104	-	-	3	1	-
105-107	-	-	1	-	1
108-110	-	-	-	-	-
111-113	-	-	1	-	1
114-116	-	-	-	-	-
117-119	-	-	1	-	1
120-122	-	-	-	-	-
123-125	-	-	-	-	1
TOTAL 0/00	1000	1000	1001	1000	1000
SERIAL NUMBERS	30	31	33	34	35
NUMBER OF SAMPLES	1	1	1	1	1
NUMBER OF FISH MEASURED	509	394	360	320	330
MEAN LENGTH (CM)	54.1	47.6	59.7	56.0	57.8
MEAN WEIGHT (KG)	1.64	1.00	2.13	1.91	2.02
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-
MESH OR HOOK SIZE	4½ ¹⁾	4 5/8 ¹⁾	No.6/0	No.6/0	No.6/0
RANGE OF DEPTHS (FM)	85-120	80-100	25-35	14-30	28-36

1) INCHES

TABLE 21

LENGTH FREQUENCIES - COD - 4Vs - 1963

(FREQUENCIES IN % - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)
CATCHES/LANDINGS	LANDINGS
MONTH	MAY
COUNTRY	CANADA (MARITIMES)
TONNAGE	151-500
39-41	11
42-44	61
45-47	93
48-50	133
51-53	96
54-56	131
57-59	115
60-62	88
63-65	77
66-68	67
69-71	43
72-74	27
75-77	16
78-80	13
81-83	16
84-86	5
87-89	3
90-92	-
93-95	-
96-98	3
99-101	-
102-104	2
TOTAL %	1000
SERIAL NUMBERS	32
NUMBER OF SAMPLES	1
NUMBER OF FISH MEASURED	375
MEAN LENGTH (CM)	57.2
MEAN WEIGHT (KG)	2.18
TOTAL WEIGHT LANDED (TONS)	-
ESTIMATED NUMBER LANDED	-
MESH SIZE (INCHES)	4½
RANGE OF DEPTHS (FM)	80-100

TABLE 22

LENGTH FREQUENCIES - COD - 4W - 1963

(FREQUENCIES IN 0/00 - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)		
CATCHES/LANDINGS	LANDINGS		
MONTH	APRIL	MAY	AUGUST
COUNTRY	CANADA (MARITIMES)		
TONNAGE	151-500		
42-44	2	23	-
45-47	17	77	125
48-50	38	185	476
51-53	77	212	206
54-56	92	140	75
57-59	118	119	44
60-62	117	114	25
63-65	91	76	8
66-68	81	21	8
69-71	47	25	6
72-74	43	4	12
75-77	47	-	8
78-80	61	-	3
81-83	45	1	1
84-86	45	-	1
87-89	38	-	1
90-92	24	1	-
93-95	12	-	1
96-98	2	1	-
99-101	-	-	-
102-104	2	-	-
105-107	-	-	-
108-110	-	-	-
111-113	-	-	-
114-116	-	-	-
117-119	-	-	-
120-122	1	-	-
TOTAL 0/00	1000	999	1000
SERIAL NUMBERS	36-37	38	39
NUMBER OF SAMPLES	2	1	1
NUMBER OF FISH MEASURED	558	263	277
MEAN LENGTH (CM)	66.5	54.8	51.5
MEAN WEIGHT (KG)	3.27	1.56	1.37
TOTAL WEIGHT LANDED (TONS)	-	-	-
ESTIMATED NUMBER LANDED	-	-	-
MESH SIZE (INCHES)	4 1/2 - 4 3/4	4 1/2	4 5/8
RANGE OF DEPTHS (FM)	46-52	-	55

TABLE 23

LENGTH FREQUENCIES - COD - 4X - 1963

(FREQUENCIES IN 0/00 - 3 CM GROUPS)

GEAR	OTTER TRAWL		LONG LINE	
	(COMMERCIAL)	(NK)	(COMMERCIAL)	
CATCHES/LANDINGS	LANDINGS			
MONTH	NOVEMBER	OCTOBER	APRIL	NOVEMBER
COUNTRY	CANADA (MARITIMES)			
TONNAGE	26-50	151-500	51-150	0-25
30-32	-	-	-	12
33-35	-	-	-	16
36-38	2	-	-	78
39-41	6	9	5	110
42-44	26	41	28	98
45-47	48	41	70	131
48-50	30	50	60	155
51-53	81	47	93	111
54-56	37	90	70	63
57-59	126	108	89	31
60-62	119	157	93	31
63-65	137	98	47	47
66-68	96	69	51	31
69-71	33	49	75	16
72-74	78	59	61	5
75-77	7	49	35	11
78-80	39	41	51	18
81-83	17	-	43	7
84-86	40	21	48	4
87-89	23	21	14	7
90-92	18	13	25	7
93-95	14	6	14	2
96-98	18	2	10	-
99-101	5	6	-	-
102-104	-	4	6	2
105-107	-	4	10	2
108-110	-	6	3	2
111-113	-	-	-	-
114-116	-	4	-	2
117-119	-	2	-	-
120-122	-	-	-	-
123-125	-	2	-	-
TOTAL 0/00	1000	999	1001	999
SERIAL NUMBERS	43	42	40	41
NUMBER OF SAMPLES	1	1	1	1
NUMBER OF FISH MEASURED	339	224	227	321
MEAN LENGTH (CM)	64.8	64.0	65.2	51.1
MEAN WEIGHT (KG)	3.12	3.21	3.29	1.62
TOTAL WEIGHT LANDED (TONS)	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-
MESH (INCHES) OR HOOK (NO.) SIZE	4½	4½	6/0	16
RANGE OF DEPTHS (FM)	-	-	55-60	-

TABLE 24

LENGTH FREQUENCIES - COD - 5Y - 1963

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)						
	LANDINGS						
CATCHES/LANDINGS	MARCH	MAY	JUNE	JULY	AUGUST	SEPTEMBER	NOVEMBER
MONTH	UNITED STATES						
COUNTRY	0-215						
TONNAGE							
39-41	-	-	-	11	-	-	-
42-44	-	2	-	11	-	-	-
45-47	-	9	-	15	-	-	-
48-50	32	10	-	51	-	94	29
51-53	160	8	-	131	-	165	88
54-56	218	20	-	175	-	126	78
57-59	149	13	51	160	-	181	69
60-62	59	25	-	149	333	150	69
63-65	90	15	-	102	67	126	98
66-68	106	9	-	47	133	-	108
69-71	106	2	-	40	133	16	137
72-74	80	28	51	51	-	31	108
75-77	-	54	51	7	67	47	118
78-80	-	105	103	7	-	16	69
81-83	-	216	179	7	67	16	29
84-86	-	211	154	15	67	16	-
87-89	-	118	51	7	-	16	-
90-92	-	49	154	-	67	-	-
93-95	-	72	103	7	67	-	-
96-98	-	26	51	7	-	-	-
99-101	-	2	51	-	-	-	-
102-104	-	2	-	-	-	-	-
105-107	-	4	-	-	-	-	-
108-110	-	2	-	-	-	-	-
TOTAL ‰/00	1000	1002	999	1000	1001	1000	1000
SERIAL NUMBERS	-	-	-	-	-	-	-
NUMBER OF SAMPLES	1	2	1	2	1	1	1
NUMBER OF FISH MEASURED	67	114	20	105	16	65	102
MEAN LENGTH (CM)	60.24	81.65	84.83	60.00	72.16	60.17	66.28
MEAN WEIGHT (KG)	2.43	5.90	5.78	2.67	3.72	2.44	3.25
TOTAL WEIGHT LANDED (TONS)	185	294	233	189	160	203	287
ESTIMATED NUMBER LANDED ¹⁾	761	498	403	707	430	831	883
MESH SIZE (INCHES)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
RANGE OF DEPTHS (FM)	78-100	50-100	85-100	72-120	65-100	55	80-120

1) FIGURES IN HUNDREDS

TABLE 25

LENGTH FREQUENCIES - COD - 5Z - 1963

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)						
	LANDINGS						
CATCHES/LANDINGS	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY
MONTH	UNITED STATES						
COUNTRY	0-499						
TONNAGE							
36-38	-	-	-	1	4	-	-
39-41	-	15	29	5	7	1	1
42-44	18	29	46	9	30	32	1
45-47	39	38	60	18	47	78	23
48-50	76	33	47	31	69	74	52
51-53	113	39	61	45	43	38	67
54-56	93	43	41	97	96	110	95
57-59	94	34	67	162	101	51	125
60-62	67	27	58	119	137	104	168
63-65	58	28	63	71	94	93	146
66-68	70	34	44	93	64	106	131
69-71	38	52	68	82	66	99	76
72-74	44	36	61	69	66	70	54
75-77	46	33	62	56	58	43	26
78-80	74	47	50	39	42	26	18
81-83	66	32	61	29	23	30	6
84-86	50	88	54	22	19	21	12
87-89	41	67	28	21	7	8	-
90-92	13	43	49	10	4	3	-
93-95	-	94	21	6	7	1	-
96-98	-	19	8	5	5	2	-
99-101	-	56	5	2	3	4	-
102-104	-	56	5	1	5	1	-
105-107	-	38	8	2	1	3	-
108-110	-	19	5	1	-	-	-
111-113	-	-	3	1	-	-	-
114-116	-	-	3	1	-	-	-
117-119	-	-	-	1	1	-	-
120-122	-	-	-	-	-	-	-
123-125	-	-	-	-	-	-	-
126-128	-	-	-	-	-	1	-
TOTAL ‰	1000	1000	1001	999	999	999	1001
SERIAL NUMBERS	-	-	-	-	-	-	-
NUMBER OF SAMPLES	8	4	8	10	8	7	8
NUMBER OF FISH MEASURED	825	340	590	1028	649	507	768
MEAN LENGTH (CM)	64.89	77.84	67.72	65.28	63.19	62.89	62.13
MEAN WEIGHT (KG)	3.27	5.71	3.83	3.24	3.00	2.94	2.73
TOTAL WEIGHT LANDED (TONS)	965	904	1031	1736	1482	1268	1755
ESTIMATED NUMBER LANDED ¹⁾	2948	1582	2695	5358	4941	4308	6438
MESH SIZE (INCHES)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
RANGE OF DEPTHS (FM)	12-115	14-130	10-115	25-100	25-115	20-100	22-120

1) FIGURES IN HUNDREDS

TABLE 25
(CONT'D)

LENGTH FREQUENCIES - COD - 5Z - 1963

(FREQUENCIES IN $\frac{0}{00}$ - 3 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)					
	LANDINGS					
CATCHES/LANDINGS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
MONTH	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
COUNTRY	CANADA (M)	UNITED STATES				
TONNAGE	151-500	0-499				
36-38	-	-	-	-	-	4
39-41	-	1	3	1	-	-
42-44	5	13	13	8	8	73
45-47	20	68	69	52	24	79
48-50	33	141	103	71	93	81
51-53	50	114	98	98	181	116
54-56	90	72	111	80	168	118
57-59	126	122	128	101	113	115
60-62	159	131	109	130	110	70
63-65	126	110	109	77	99	79
66-68	89	75	91	73	69	53
69-71	112	77	70	96	55	51
72-74	68	24	47	48	29	49
75-77	16	8	15	42	21	45
78-80	22	8	21	31	16	34
81-83	14	3	7	25	1	15
84-86	13	4	2	16	1	16
87-89	18	4	2	19	3	8
90-92	13	5	1	13	4	-
93-95	8	5	1	8	1	-
96-98	7	4	1	5	1	-
99-101	5	2	1	4	1	-
102-104	5	3	-	3	1	-
105-107	2	1	-	-	1	-
108-110	-	1	-	-	-	-
111-113	-	1	-	-	-	-
114-116	-	1	-	-	-	-
117-119	-	-	-	-	-	-
120-122	-	-	-	-	-	-
123-125	-	-	-	-	-	-
126-128	-	1	-	-	-	-
TOTAL $\frac{0}{00}$	1001	999	1002	1001	1000	1000
SERIAL NUMBERS	44	-	-	-	-	-
NUMBER OF SAMPLES	1	9	6	10	5	3
NUMBER OF FISH MEASURED	343	807	572	889	484	314
MEAN LENGTH (CM)	64.7	59.43	59.56	63.37	59.00	59.23
MEAN WEIGHT (KG)	2.96	2.52	2.45	3.01	2.38	2.50
TOTAL WEIGHT LANDED (TONS)	-	1432	957	1241	715	418
ESTIMATED NUMBER LANDED ¹⁾	-	5689	3908	4122	3002	1673
MESH SIZE (INCHES)	4 5/8	4.5	4.5	4.5	4.5	4.5
RANGE OF DEPTHS (FM)	45-50	21-120	24-125	20-130	15-120	17-100

1) FIGURES IN HUNDREDS

TABLE 26

LENGTH FREQUENCIES - COD - 1963

(FREQUENCIES IN ‰ - 3 CM GROUPS)

AREA	SOUTH-EAST GREENLAND			
GEAR	OTTER TRAWL (COMMERCIAL)			
CATCHES/LANDINGS	LANDINGS			
MONTH	JANUARY	APRIL	MAY	SEPTEMBER/OCTOBER
COUNTRY	GERMANY			
TONNAGE	500-900			
42-44	-	-	-	1
45-47	-	-	-	3
48-50	-	-	3	16
51-53	2	-	15	61
54-56	3	1	19	95
57-59	13	19	45	90
60-62	15	23	71	77
63-65	52	58	124	80
66-68	94	113	139	71
69-71	134	144	124	66
72-74	130	142	118	93
75-77	134	125	102	100
78-80	97	104	53	69
81-83	94	80	43	54
84-86	79	69	34	37
87-89	76	34	29	25
90-92	40	34	24	24
93-95	12	27	25	15
96-98	12	17	12	11
99-101	5	4	8	8
102-104	3	2	6	3
105-107	3	2	3	1
108-110	-	2	3	-
111-113	1	-	-	-
114-116	-	-	-	-
117-119	1	-	-	-
TOTAL ‰	1000	1000	1000	1000
SERIAL NUMBERS	1,4,8	22	30,33	45,48,50
NUMBER OF SAMPLES	3	1	2	3
NUMBER OF FISH MEASURED	380	376	847	1308
MEAN LENGTH (CM)	77.2	76.2	72.3	69.8
MEAN WEIGHT (KG)	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	192	129	59	133
ESTIMATED NUMBER LANDED	60187	40906	22375	55911
MESH SIZE (MM)	120	120	120	120
RANGE OF DEPTHS (FM)	-	-	-	-

TABLE 27

LENGTH FREQUENCIES - COD - 1963

(FREQUENCIES IN $^{\circ}/_{00}$ - 3 CM GROUPS)

AREA	EAST GREENLAND - DOHRN BANK			
GEAR	OTTER TRAWL (COMMERCIAL)			
CATCHES/LANDINGS	LANDINGS			
MONTH	JANUARY	APRIL	JULY	NOVEMBER
COUNTRY	GERMANY			
TONNAGE	500-900			
42-44	-	1	-	-
45-47	2	1	-	-
48-50	3	3	3	-
51-53	8	8	6	-
54-56	18	6	4	8
57-59	30	8	17	20
60-62	37	21	17	23
63-65	47	34	32	30
66-68	50	61	64	67
69-71	43	88	73	95
72-74	84	122	83	121
75-77	92	116	143	110
78-80	86	113	123	120
81-83	87	95	119	107
84-86	89	101	84	77
87-89	104	86	76	78
90-92	65	68	45	62
93-95	69	32	39	26
96-98	42	14	26	26
99-101	19	14	23	9
102-104	17	7	17	17
105-107	8	1	3	-
108-110	-	-	3	4
TOTAL $^{\circ}/_{00}$	1000	1000	1000	1000
SERIAL NUMBERS	7	15,25,27	40	54
NUMBER OF SAMPLES	1	3	1	1
NUMBER OF FISH MEASURED	734	1119	441	467
MEAN LENGTH (CM)	80.3	79.0	79.9	79.1
MEAN WEIGHT (KG)	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	73	247	140	101
ESTIMATED NUMBER LANDED	18263	68537	38226	26042
MESH SIZE (MM)	120	120	120	120
RANGE OF DEPTHS (FM)	-	-	-	-

TABLE 28

AGE FREQUENCIES - COD - IA - 1963

(FREQUENCIES IN ‰)

GEAR		GREENLANDERS ¹											
		(RESEARCH)						(NK)					
CATCHES/LANDINGS		NK											
MONTH		JULY-AUGUST-SEPTEMBER						AUGUST-SEPTEMBER-OCTOBER					
COUNTRY		DENMARK (GREENLAND)											
TONNAGE		1)						2)					
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	00	TOT.	00	00	TOT.	00	00	TOT.	00	00	TOT.
1959	4	-	-	-	-	-	-	27	49	76	57.2	52.7	54.3
1958	5	-	-	-	-	-	-	22	27	49	57.4	62.8	60.4
1957	6	-	6	6	-	75.0	75.0	317	420	737	69.3	71.0	70.3
1956	7	11	17	28	76.5	74.7	75.4	22	36	58	73.6	78.3	76.5
1955	8	17	34	51	81.7	77.7	79.0	4	9	13	79.0	78.5	78.7
1954	9	28	22	51	82.6	83.0	82.8	9	-	9	75.0	-	75.0
1953	10	112	275	393	84.5	85.8	85.3	22	18	40	88.6	83.3	86.2
1952	11	28	45	184	85.6	87.5	86.4	-	-	-	-	-	-
1951	12	-	51	51	-	89.4	89.4	-	4	4	-	100.0	100.0
1950	13	39	73	112	89.0	89.0	89.0	4	-	4	74.0	-	74.0
1949	14	6	-	6	91.0	-	91.0	-	-	-	-	-	-
1948	15	6	22	28	86.0	92.8	91.4	-	-	-	-	-	-
1947	16	51	84	135	89.6	92.8	91.6	4	4	9	86.0	105.0	95.5
1946	17	-	-	-	-	-	-	-	-	-	-	-	-
1945	18	6	11	17	88.0	88.0	88.0	-	-	-	-	-	-
1944	19	-	6	6	-	92.0	92.0	-	-	-	-	-	-
1943	20	-	11	11	-	98.5	98.5	-	-	-	-	-	-
1942	21	17	6	22	88.0	100.0	91.0	-	-	-	-	-	-
TOTAL ‰		321	663	1001				431	567	999			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	-				-	-	-			
NUMBER OF FISH AGED		-	-	178				-	-	224			
MEAN AGE		-	-	10.7				-	-	6.2			
MEAN WEIGHT (KG)		-	-	5.342				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH OR HOOK SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)		-	-	-				-	-	-			

- 1) GREENLANDERS¹ AND M/C "ADOLF JENSEN"
- 2) GREENLANDERS¹
- 3) TWO NOT SEXED
- 4) TWO NOT SEXED AND ONE NOT MEASURED

TABLE 29

AGE FREQUENCIES - COD - 18 - 1963

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (COMMERCIAL)											
CATCHES/LANDINGS		CATCHES											
MONTH		OCTOBER						NOVEMBER					
COUNTRY		U. S. S. R.											
TONNAGE		1800											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	Tot.	00	99	Tot.	00	99	Tot.	00	99	Tot.
1961	2	-	-	-	-	-	-	-	2	2	-	37.00	37.00
1960	3	20	10	30	46.00	49.00	47.00	213	114	327	45.01	46.30	45.49
1959	4	50	23	73	55.00	54.58	54.86	80	85	165	56.11	56.90	56.50
1958	5	43	53	96	65.80	66.43	66.17	48	48	96	63.40	64.39	63.90
1957	6	236	271	507	70.75	72.04	71.44	177	175	352	69.50	72.60	71.09
1956	7	37	17	54	77.08	79.00	77.68	5	5	10	70.00	79.00	74.50
1955	8	20	20	40	81.50	85.00	83.25	3	3	6	83.50	86.50	85.00
1954	9	13	10	23	84.25	85.00	84.57	3	3	6	85.00	89.50	87.25
1953	10	70	40	110	85.15	85.00	85.09	20	5	25	87.49	96.01	89.20
1952	11	10	3	13	88.00	82.00	86.50	2	2	4	88.00	97.00	92.50
1951	12	7	3	10	86.50	97.00	89.98	-	-	-	-	-	-
1950	13	7	-	7	89.50	-	89.50	2	-	2	88.00	-	88.00
1949	14	7	-	7	86.50	-	86.50	-	-	-	-	-	-
1948	15	3	7	10	88.00	91.00	90.00	-	-	-	-	-	-
1947	16	10	10	20	92.00	88.99	90.50	-	5	5	-	99.01	99.01
TOTAL ‰		533	467	1000				553	447	1000			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	1				-	-	2			
NUMBER OF FISH AGED		160	140	300				332	268	600			
MEAN AGE		6.96	6.68	6.83				4.70	4.92	4.80			
MEAN WEIGHT (KG)		3.83	3.87	3.85				2.21	2.66	2.41			
TOTAL WEIGHT LANDED (TONS)		-	-	40				-	-	102			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH SIZE (MM)		-	-	110				-	-	110			
RANGE OF DEPTHS (FM)		-	-	155-166				-	-	100-130			

(CONT'D)

GEAR		OTTER TRAWL (RESEARCH)						LONG LINE (RESEARCH)					
CATCHES/LANDINGS		CATCHES						NK					
MONTH		DECEMBER						JULY					
COUNTRY		GERMANY						DENMARK (GREENLAND) ³⁾					
TONNAGE		2000						1)					
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	Tot.	00	99	Tot.	00	99	Tot.	00	99	Tot.
1960	3	-	-	345	-	-	46.5	34	23	57	43.5	40.3	42.2
1959	4	-	-	106	-	-	54.4	189	160	349	52.8	53.0	52.9
1958	5	-	-	96	-	-	-	103	91	194	59.6	61.8	60.6
1957	6	-	-	356	-	-	69.7	149	200	349	66.2	68.3	67.4
1956	7	-	-	26	-	-	-	6	11	17	70.0	68.5	69.0
1955	8	-	-	8	-	-	-	6	6	11	79.0	78.0	78.5
1954	9	-	-	-	-	-	-	6	-	6	84.0	-	84.0
1953	10	-	-	45	-	-	-	11	-	11	86.5	-	86.5
1952	11	-	-	-	-	-	-	6	-	6	84.0	-	84.0
1951	12	-	-	15	-	-	-	-	-	-	-	-	-
1947	16	-	-	3	-	-	-	-	-	-	-	-	-
TOTAL ‰		-	-	1000				510	491	1000			
SERIAL NUMBERS		-	-	14,15				-	-	-			
NUMBER OF SAMPLES		-	-	2				-	-	-			
NUMBER OF FISH AGED		-	-	169				-	-	175			
MEAN AGE		-	-	-				-	-	5.1			
MEAN WEIGHT (KG)		-	-	-				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	289				-	-	-			
MESH OR HOOK SIZE		-	-	110 ²⁾				-	-	-			
RANGE OF DEPTHS (FM)		-	-	100				-	-	44-60			

1) M/S "DANA" AND M/C "ADOLF JENSEN"

2) (MM)

3) STORE HELLEFISKEBANKE

TABLE 29
(CONT'D)

AGE FREQUENCIES - COD - 18 - 1963

(FREQUENCIES IN %/oo)

GEAR		LONG LINE (NK)						GREENLANDERS' (NK)					
CATCHES/LANDINGS		NK						NK					
MONTH		JULY ¹⁾						JULY					
COUNTRY		DENMARK (GREENLAND)						DENMARK (GREENLAND)					
TONNAGE		1)						2)					
YEAR-CLASS	AGE	%/oo FREQUENCY			MEAN LENGTH			%/oo FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1960	3	8	-	8	45.0	-	45.0	-	-	-	-	-	-
1959	4	8	8	16	50.0	51.0	50.5	-	-	-	-	-	-
1958	5	40	73	113	62.0	59.3	60.3	51	10	61	57.2	61.0	57.8
1957	6	194	371	564	67.6	69.2	68.7	343	303	646	65.5	68.5	66.9
1956	7	16	32	48	76.5	73.3	74.3	40	10	51	78.0	77.0	77.8
1955	8	16	8	24	73.0	83.0	76.3	30	30	61	87.0	83.0	85.0
1954	9	-	-	-	-	-	-	10	10	20	78.0	79.0	78.5
1953	10	24	89	113	86.7	85.6	85.9	30	61	91	83.7	87.7	86.3
1952	11	8	-	8	85.0	-	85.0	-	-	-	-	-	-
1951	12	-	-	-	-	-	-	10	-	10	101.0	-	101.0
1950	13	24	8	32	87.3	98.0	90.0	10	10	20	93.0	77.0	85.0
1947	16	40	16	56	94.4	93.0	94.0	20	10	30	86.5	100.0	91.0
1946	17	8	-	8	107.0	-	107.0	-	-	-	-	-	-
1945	18	-	-	-	-	-	-	-	10	10	-	102.0	102.0
1944	19	8	-	8	81.0	-	81.0	-	-	-	-	-	-
TOTAL %/oo		394	605	998				544	454	1000			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	-				-	-	-			
NUMBER OF FISH AGED		-	-	124				-	-	99			
MEAN AGE		-	-	7.4				-	-	7.2			
MEAN WEIGHT (KG)		-	-	-				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH OR HOOK SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)		-	-	49-98				-	-	-			

GEAR		GREENLANDERS' (NK)											
CATCHES/LANDINGS		NK											
MONTH		JULY-AUGUST											
COUNTRY		DENMARK (GREENLAND)											
TONNAGE		2)											
YEAR-CLASS	AGE	%/oo FREQUENCY			MEAN LENGTH			%/oo FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1960	3	5	-	5	45.0	-	45.0	-	-	-	-	-	-
1959	4	184	195	378	54.2	53.2	53.7	28	38	65	52.3	53.7	53.1
1958	5	146	151	297	61.4	62.4	61.9	50	68	118	59.6	61.9	60.9
1957	6	97	200	297	69.7	69.5	69.6	330	423	753	65.4	67.8	66.8
1956	7	5	-	5	73.0	-	73.0	5	25	30	69.0	76.2	75.0
1955	8	5	-	5	74.0	-	74.0	8	-	8	74.3	74.3	74.3
1954	9	-	-	-	-	-	-	3	3	5	81.0	76.0	78.5
1953	10	5	5	11	86.0	78.0	82.0	10	8	18	79.3	81.3	80.1
1952	11	-	-	-	-	-	-	-	3	3	-	85.0	85.0
TOTAL %/oo		447	551	998				434	568	1000			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	-				-	-	-			
NUMBER OF FISH AGED		-	-	185				-	-	397			
MEAN AGE		-	-	5.0				-	-	5.9			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH OR HOOK SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)		-	-	-				-	-	-			

- 1) M/S "DANA" AND M/C "ADOLF JENSEN"
2) GREENLANDERS'
3) STORE HELLEFISKEBANKE

TABLE 30

AGE FREQUENCIES - COD - IC - 1963

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (COMMERCIAL)													
CATCHES/LANDINGS		CATCHES													
MONTH		FEBRUARY						MARCH							
COUNTRY		U. S. S. R.													
TONNAGE		1800													
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH				
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.		
1961	2	1	1	2	19.00	25.00	22.00	-	-	-	-	-	-		
1960	3	2	4	6	38.50	36.40	37.93	28	32	60	38.74	39.07	38.92		
1959	4	33	32	65	52.81	52.00	52.42	134	134	268	48.79	51.22	49.00		
1958	5	101	80	181	58.87	58.93	58.93	94	134	228	57.25	57.04	57.13		
1957	6	334	340	674	64.93	66.01	65.47	175	260	435	62.53	64.48	63.70		
1956	7	15	18	33	74.26	74.71	74.53	3	3	6	62.50	73.00	67.75		
1955	8	10	6	16	76.28	82.45	78.67	3	-	3	59.50	-	59.50		
1954	9	2	1	3	83.50	88.00	85.00	-	-	-	-	-	-		
1953	10	12	7	19	83.29	85.33	84.10	-	-	-	-	-	-		
1952	11	-	1	1	-	94.00	94.00	-	-	-	-	-	-		
TOTAL ‰		510	490	1000	/			437	563	1000	/				
SERIAL NUMBERS		-	-	-				-	-	-				-	-
NUMBER OF SAMPLES		-	-	4				-	-	-				-	2
NUMBER OF FISH AGED		612	585	1197				262	338	600				-	-
MEAN AGE		5.83	5.83	5.83				5.01	5.12	5.07				-	-
MEAN WEIGHT (KG)		2.52	2.55	2.54				1.56	1.72	1.65				-	-
TOTAL WEIGHT LANDED (TONS)		-	-	406				-	-	1284				-	-
ESTIMATED NUMBER LANDED		-	-	-				-	-	-				-	-
MESH SIZE (MM)		-	-	110				-	-	110				-	-
RANGE OF DEPTHS (FM)		-	-	86-116				-	-	111-147				-	-
(CONT'D)															
GEAR		OTTER TRAWL (COMMERCIAL)													
CATCHES/LANDINGS		CATCHES													
MONTH		APRIL						NOVEMBER							
COUNTRY		U. S. S. R.													
TONNAGE		1800													
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH				
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.		
1961	2	-	-	-	-	-	-	3	-	3	31.00	-	31.00		
1960	3	47	40	87	40.21	37.24	38.89	43	23	66	45.77	50.29	47.35		
1959	4	90	73	163	48.91	50.89	49.78	30	40	70	55.99	55.24	55.60		
1958	5	87	167	254	56.95	58.90	58.21	118	118	236	68.71	67.77	68.26		
1957	6	162	318	480	61.48	64.21	63.31	210	163	373	72.28	74.05	73.03		
1956	7	-	7	7	-	79.00	79.00	100	93	193	80.80	81.57	81.16		
1955	8	-	3	3	-	58.00	58.00	23	7	30	78.14	85.00	79.66		
1954	9	-	-	-	-	-	-	3	3	6	85.00	82.00	83.50		
1953	10	-	3	3	-	91.00	91.00	10	7	17	79.99	95.50	86.20		
1952	11	-	-	-	-	-	-	3	-	3	85.00	-	85.00		
1951	12	-	-	-	-	-	-	3	-	3	97.00	-	97.00		
1950	13	-	3	3	-	76.00	76.00	-	-	-	-	-	-		
TOTAL ‰		386	614	1000	/			546	454	1000	/				
SERIAL NUMBERS		-	-	-				-	-	-				-	-
NUMBER OF SAMPLES		-	-	1				-	-	-				-	1
NUMBER OF FISH AGED		116	184	300				164	136	300				-	-
MEAN AGE		4.92	4.92	5.20				5.85	5.73	5.79				-	-
MEAN WEIGHT (KG)		1.46	1.99	1.78				3.52	3.55	3.54				-	-
TOTAL WEIGHT LANDED (TONS)		-	-	507				-	-	21				-	-
ESTIMATED NUMBER LANDED		-	-	-				-	-	-				-	-
MESH SIZE (MM)		-	-	110				-	-	110				-	-
RANGE OF DEPTHS (FM)		-	-	102-119				-	-	127-130				-	-

TABLE 30
(CONT'D)

AGE FREQUENCIES - COD - IC - 1963

(FREQUENCIES IN 0/00)

GEAR		LONG LINE (NK) 1)						HAND LINE (NK) 1)					
CATCHES/LANDINGS		NK						NK					
MONTH		JULY						JULY					
COUNTRY		DENMARK						GREENLAND					
TONNAGE		2)						2)					
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	3	-	-	-	-	-	-	20	17	37	37.7	39.8	38.6
1959	4	-	-	-	-	-	-	10	13	24	52.0	54.0	53.1
1958	5	-	-	-	-	-	-	40	13	54	64.3	60.5	63.3
1957	6	21	42	62	76.0	64.5	68.3	239	229	468	70.9	72.0	71.5
1956	7	-	-	-	-	-	-	61	84	145	79.4	79.3	79.3
1955	8	21	62	83	82.0	80.3	80.8	47	27	74	78.8	80.9	79.5
1954	9	21	21	42	90.0	84.0	87.0	13	20	34	82.8	83.3	83.1
1953	10	62	104	167	85.0	92.4	89.6	51	34	84	84.2	89.2	86.2
1952	11	-	62	62	-	91.7	91.7	13	3	17	82.3	91.0	84.0
1951	12	42	62	104	90.0	93.0	91.8	10	7	17	79.3	89.5	83.4
1950	13	21	146	167	85.0	92.9	91.9	7	13	20	86.0	94.3	91.5
1949	14	-	21	21	-	93.0	93.0	3	-	3	89.0	-	89.0
1948	15	-	42	42	-	86.5	86.5	-	3	3	-	83.0	83.0
1947	16	104	125	229	89.0	94.8	92.2	20	-	20	84.2	-	84.2
1942	21	-	21	21	-	85.0	85.0	-	-	-	-	-	-
TOTAL 0/00		292	708	1000				534	463	1000			
SERIAL NUMBERS		-	-	-	/						-	-	-
NUMBER OF SAMPLES		-	-	-							-	-	-
NUMBER OF FISH AGED		-	-	48							-	-	297
MEAN AGE		-	-	12.2							-	-	7.1
MEAN WEIGHT (KG)		-	-	-							-	-	-
TOTAL WEIGHT LANDED (TONS)		-	-	-							-	-	-
ESTIMATED NUMBER LANDED		-	-	-							-	-	-
MESH OR HOOK SIZE		-	-	-							-	-	-
RANGE OF DEPTHS (FM)		-	-	77-120							-	-	49-77

(CONT'D)

GEAR		HAND LINE (NK) 1)						GREENLANDERS' (RESEARCH)					
CATCHES/LANDINGS		NK						NK					
MONTH		JULY						JUNE					
COUNTRY		DENMARK						GREENLAND					
TONNAGE		2)						3)					
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	3	323	180	503	39.4	39.1	39.9	-	-	-	-	-	-
1959	4	68	62	130	48.1	48.3	48.2	27	-	27	57.0	-	57.0
1958	5	93	68	161	57.2	61.5	59.0	55	203	257	63.3	65.9	65.3
1957	6	87	75	161	68.4	70.7	69.4	284	311	595	68.4	71.2	69.8
1956	7	12	25	37	78.5	80.8	80.0	14	27	41	78.0	71.0	73.3
1955	8	-	-	-	-	-	-	-	14	14	-	76.0	76.0
1954	9	-	-	-	-	-	-	14	-	14	99.0	-	99.0
1953	10	-	6	6	-	78.0	78.0	27	14	41	81.5	93.0	85.3
1950	13	-	-	-	-	-	-	14	-	14	88.0	-	88.0
TOTAL 0/00		583	416	998				435	569	1003			
SERIAL NUMBERS		-	-	-	/						-	-	-
NUMBER OF SAMPLES		-	-	-							-	-	-
NUMBER OF FISH AGED		-	-	161							-	-	74
MEAN AGE		-	-	4.1							-	-	6.1
MEAN WEIGHT (KG)		-	-	-							-	-	-
TOTAL WEIGHT LANDED (TONS)		-	-	-							-	-	-
ESTIMATED NUMBER LANDED		-	-	-							-	-	-
MESH OR HOOK SIZE		-	-	-							-	-	-
RANGE OF DEPTHS (FM)		-	-	33-38							-	-	-

1) LL. HELLEFISKEBANKE
 2) M/S "DANA" AND M/C "ADOLF JENSEN"
 3) M/C "ADOLF JENSEN" AND GREENLANDERS'

TABLE 31

AGE FREQUENCIES - COD - ID - 1963

(FREQUENCIES IN %/00)

GEAR		OTTER TRAWL (COMMERCIAL)														
CATCHES/LANDINGS		CATCHES														
MONTH		FEBRUARY						JUNE								
COUNTRY		U. S. S. R.														
TONNAGE		1800														
YEAR-CLASS	AGE	%/00 FREQUENCY			MEAN LENGTH			%/00 FREQUENCY			MEAN LENGTH					
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.			
1960	3	-	-	-	-	-	-	14	4	18	98.86	98.50	98.77			
1959	4	13	10	23	49.00	55.00	51.58	33	18	51	49.69	49.93	49.78			
1958	5	97	37	134	59.02	60.73	59.50	138	80	218	58.87	59.26	59.02			
1957	6	434	304	738	66.82	68.47	67.48	259	143	402	67.87	70.06	68.68			
1956	7	27	33	60	75.25	75.70	75.49	61	69	130	75.52	75.55	75.55			
1955	8	3	10	13	76.00	79.99	79.00	27	18	45	79.24	83.68	81.04			
1954	9	3	-	3	76.00	-	76.00	18	12	30	81.07	86.65	83.32			
1953	10	10	7	17	77.98	88.00	82.00	27	22	49	84.76	91.30	87.73			
1952	11	3	-	3	79.00	-	79.00	2	6	8	86.50	91.00	89.86			
1951	12	-	3	3	-	94.00	94.00	4	6	10	94.00	94.51	94.30			
1950	13	-	3	3	-	91.00	91.00	7	9	16	89.71	94.36	92.20			
1949	14	3	-	3	79.00	-	79.00	-	-	-	-	-	-			
1948	15	-	-	-	-	-	-	4	3	7	87.25	91.00	88.87			
1947	16	-	-	-	-	-	-	5	9	14	89.20	98.50	94.93			
1946	17	-	-	-	-	-	-	-	1	1	-	91.00	91.00			
1943	20	-	-	-	-	-	-	-	1	1	-	91.00	91.00			
TOTAL %/00		593	407	1000	/			599	401	1000	/					
SERIAL NUMBERS		-	-	-				-	-	-				-	-	-
NUMBER OF SAMPLES		-	-	1				-	-	-				-	3	-
NUMBER OF FISH AGED		178	122	300				-	-	-				542	363	905
MEAN AGE		6.01	6.17	6.07				-	-	-				6.35	6.95	6.59
MEAN WEIGHT (KG)		2.85	3.20	2.99				-	-	-				2.63	3.32	2.91
TOTAL WEIGHT LANDED (TONS)		-	-	443				-	-	-				-	-	159
ESTIMATED NUMBER LANDED		-	-	-				-	-	-				-	-	-
MESH SIZE (MM)		-	-	110				-	-	-				-	-	110
RANGE OF DEPTHS (FM)		-	-	163-185				-	-	-				-	-	83-222

(CONT'D)

GEAR		OTTER TRAWL (COMMERCIAL)						OTTER TRAWL (RESEARCH)								
CATCHES/LANDINGS		CATCHES														
MONTH		AUGUST						DECEMBER								
COUNTRY		U. S. S. R.														
TONNAGE		1800						2000								
YEAR-CLASS	AGE	%/00 FREQUENCY			MEAN LENGTH			%/00 FREQUENCY			MEAN LENGTH					
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.			
1961	2	-	-	-	-	-	-	-	-	6	-	-	-			
1960	3	10	3	13	46.99	46.00	46.75	-	-	189	-	-	48.8			
1959	4	23	10	33	55.84	54.01	55.30	-	-	74	-	-	-			
1958	5	91	67	158	63.55	64.45	63.94	-	-	216	-	-	67.2			
1957	6	251	259	510	69.01	70.84	69.92	-	-	338	-	-	72.0			
1956	7	67	110	177	78.25	79.27	78.89	-	-	130	-	-	79.2			
1955	8	23	13	36	79.42	85.75	81.73	-	-	26	-	-	-			
1954	9	-	7	7	-	83.50	83.50	-	-	-	-	-	-			
1953	10	19	30	43	88.00	93.67	91.93	-	-	15	-	-	-			
1951	12	3	10	13	94.00	92.00	92.50	-	-	-	-	-	-			
1950	13	-	3	3	-	100.00	100.00	-	-	6	-	-	-			
1949	14	7	-	7	94.00	-	94.00	-	-	-	-	-	-			
TOTAL %/00		488	512	1000	/			-	-	1000	/					
SERIAL NUMBERS		-	-	-				-	-	-				-	25	-
NUMBER OF SAMPLES		-	-	1				-	-	-				-	1	-
NUMBER OF FISH AGED		146	153	299				-	-	-				-	178	-
MEAN AGE		6.16	6.51	6.34				-	-	-				-	-	-
MEAN WEIGHT (KG)		3.69	4.45	4.08				-	-	-				-	-	-
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-				-	-	-
ESTIMATED NUMBER LANDED		-	-	-				-	-	-				-	178	-
MESH SIZE (MM)		-	-	110				-	-	-				-	110	-
RANGE OF DEPTHS (FM)		-	-	27-83				-	-	-				-	150	-

TABLE 31
(CONT'D)

AGE FREQUENCIES - COD - ID - 1963

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (COMMERCIAL)											
CATCHES/LANDINGS		LANDINGS											
MONTH		JANUARY/FEBRUARY						JULY					
COUNTRY		GERMANY											
TONNAGE		900-1800											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1959	4	-	-	3	-	-	-	-	-	4	-	-	-
1958	5	-	-	99	-	-	-	-	-	110	-	-	64.7
1957	6	-	-	657	-	-	66.3	-	-	442	-	-	70.5
1956	7	-	-	59	-	-	-	-	-	310	-	-	78.0
1955	8	-	-	30	-	-	-	-	-	40	-	-	-
1954	9	-	-	36	-	-	-	-	-	19	-	-	-
1953	10	-	-	73	-	-	-	-	-	57	-	-	-
1952	11	-	-	4	-	-	-	-	-	1	-	-	-
1951	12	-	-	6	-	-	-	-	-	3	-	-	-
1950	13	-	-	14	-	-	-	-	-	10	-	-	-
1948	15	-	-	3	-	-	-	-	-	-	-	-	-
1947	16	-	-	4	-	-	-	-	-	4	-	-	-
1946	17	-	-	4	-	-	-	-	-	-	-	-	-
1945	18	-	-	1	-	-	-	-	-	-	-	-	-
1945 ¹⁾	>18 ¹⁾	-	-	7	-	-	-	-	-	-	-	-	-
TOTAL ‰		-	-	1000	/			-	-	1000	/		
SERIAL NUMBERS		-	-	3,9,10				-	-	39,41			
NUMBER OF SAMPLES		-	-	3				-	-	2			
NUMBER OF FISH AGED		-	-	458				-	-	379			
MEAN AGE		-	-	-				-	-	-			
MEAN WEIGHT (KG)		-	-	-				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	674				-	-	157			
ESTIMATED NUMBER LANDED		-	-	272679				-	-	55985			
MESH SIZE (MM)		-	-	120				-	-	120			
RANGE OF DEPTHS (FM)		-	-	-				-	-	-			

(CONT'D)

GEAR		OTTER TRAWL (COMMERCIAL)											
CATCHES/LANDINGS		LANDINGS											
MONTH		AUGUST						SEPTEMBER					
COUNTRY		GERMANY											
TONNAGE		900-1800											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1960	3	-	-	-	-	-	-	-	-	4	-	-	-
1959	4	-	-	16	-	-	-	-	-	17	-	-	-
1958	5	-	-	111	-	-	64.0	-	-	123	-	-	67.6
1957	6	-	-	419	-	-	71.1	-	-	346	-	-	72.9
1956	7	-	-	301	-	-	77.9	-	-	265	-	-	80.5
1955	8	-	-	41	-	-	-	-	-	21	-	-	-
1954	9	-	-	5	-	-	-	-	-	31	-	-	-
1953	10	-	-	58	-	-	-	-	-	101	-	-	88.5
1952	11	-	-	6	-	-	-	-	-	14	-	-	-
1951	12	-	-	6	-	-	-	-	-	23	-	-	-
1950	13	-	-	22	-	-	-	-	-	23	-	-	-
1949	14	-	-	1	-	-	-	-	-	-	-	-	-
1948	15	-	-	2	-	-	-	-	-	5	-	-	-
1947	16	-	-	11	-	-	-	-	-	22	-	-	-
1945 ¹⁾	18 ¹⁾	-	-	1	-	-	-	-	-	5	-	-	-
TOTAL ‰		-	-	1000	/			-	-	1000	/		
SERIAL NUMBERS		-	-	43				-	-	47			
NUMBER OF SAMPLES		-	-	1				-	-	1			
NUMBER OF FISH AGED		-	-	219				-	-	176			
MEAN AGE		-	-	-				-	-	-			
MEAN WEIGHT (KG)		-	-	-				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	173				-	-	151			
ESTIMATED NUMBER LANDED		-	-	55514				-	-	39378			
MESH SIZE (MM)		-	-	120				-	-	120			
RANGE OF DEPTHS (FM)		-	-	-				-	-	-			

1) BEFORE 1945 AND GREATER THAN 18 (AGE)

TABLE 31
(CONT'D)

AGE FREQUENCIES - COD - ID - 1963

(FREQUENCIES IN %/00)

GEAR		OTTER TRAWL (COMMERCIAL)						LONG LINE (RESEARCH)					
CATCHES/LANDINGS		LANDINGS						NK					
MONTH		DECEMBER						MAY					
COUNTRY		GERMANY						DENMARK (GREENLAND)					
TONNAGE		900-1800						1)					
YEAR-CLASS	AGE	%/00 FREQUENCY			MEAN LENGTH			%/00 FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1960	3	-	-	17	-	-	-	-	-	21	-	-	-
1959	4	-	-	79	-	-	-	8	13	21	55.5	52.0	53.4
1958	5	-	-	168	-	-	-	71	79	151	60.3	58.9	59.6
1957	6	-	-	530	-	-	-	134	460	594	66.6	68.9	68.4
1956	7	-	-	112	-	-	-	21	29	50	73.4	79.3	76.8
1955	8	-	-	10	-	-	-	13	25	38	71.0	77.8	75.6
1954	9	-	-	6	-	-	-	13	17	29	80.0	75.0	77.1
1953	10	-	-	44	-	-	-	13	38	50	81.3	86.3	85.1
1952	11	-	-	16	-	-	-	-	17	17	-	88.3	88.3
1951	12	-	-	2	-	-	-	4	4	8	83.0	94.0	88.5
1950	13	-	-	11	-	-	-	-	21	21	-	84.6	84.6
1949	14	-	-	-	-	-	-	-	4	4	-	84.0	84.0
1948	15	-	-	1	-	-	-	-	-	-	-	-	-
1947	16	-	-	4	-	-	-	4	8	13	91.0	96.0	94.3
1946	17	-	-	-	-	-	-	-	-	-	-	-	-
1945	18	-	-	-	-	-	-	-	4	4	-	124.0	124.0
TOTAL %/00		-	-	1000				281	719	1000			
SERIAL NUMBERS		-	-	55,57				-	-	-			
NUMBER OF SAMPLES		-	-	2				-	-	-			
NUMBER OF FISH AGED		-	-	379				-	-	239			
MEAN AGE		-	-	-				-	-	6.7			
MEAN WEIGHT (KG)		-	-	-				-	-	CA.3			
TOTAL WEIGHT LANDED (TONS)		-	-	268				-	-	-			
ESTIMATED NUMBER LANDED		-	-	96247				-	-	-			
MESH OR HOOK SIZE		-	-	1202)				-	-	-			
RANGE OF DEPTHS (FM)		-	-	-				-	-	-			

1) M/C "ADOLF JENSEN"

2) (NM)

TABLE 31
(CONT'D)

AGE FREQUENCIES - COD - ID - 1963

(FREQUENCIES IN 0/00)

GEAR		LONG LINE (RESEARCH)											
CATCHES/LANDINGS		NK											
MONTH		JULY-AUGUST ²⁾						OCTOBER					
COUNTRY		DENMARK						GREENLAND					
TONNAGE		1)											
YEAR-CLASS	AGE	0/00 FREQUENCY			MEAN LENGTH			0/00 FREQUENCY			MEAN LENGTH		
		00	09	TOT.	00	09	TOT.	00	09	TOT.	00	09	TOT.
1960	3	-	-	-	-	-	-	52	21	73	40.0	39.5	39.9
1959	4	-	11	11	-	56.0	56.0	10	42	52	58.0	50.8	52.0
1958	5	57	11	69	63.0	64.0	63.2	94	94	187	60.6	64.0	62.3
1957	6	149	172	322	68.2	72.7	70.6	94	104	198	68.1	71.3	69.8
1956	7	23	46	69	84.5	80.3	81.7	52	31	83	74.6	69.7	72.8
1955	8	23	57	80	84.0	81.0	81.9	31	31	62	80.3	84.0	82.2
1954	9	-	-	-	-	-	-	-	31	31	-	87.7	87.7
1953	10	92	80	172	89.0	88.9	88.9	31	42	73	89.3	94.8	92.4
1952	11	11	34	46	80.0	93.3	90.0	-	10	10	-	87.0	87.0
1951	12	-	-	-	-	-	-	21	-	21	85.0	-	85.0
1950	13	-	34	34	-	100.3	100.3	31	52	83	86.0	90.8	89.0
1949	14	-	-	-	-	-	-	10	-	10	94.0	-	94.0
1948	15	-	11	11	-	132.0	132.0	31	-	31	93.0	-	93.0
1947	16	69	34	103	89.7	98.7	92.7	31	31	62	85.7	90.0	87.8
1946	17	11	23	34	80.0	101.5	94.3	-	-	-	-	-	-
1945	18	11	-	11	87.0	-	87.0	10	-	10	75.0	-	75.0
1944	19	-	11	11	-	92.0	92.0	-	-	-	-	-	-
1943	20	11	-	11	100.0	-	100.0	-	-	-	-	-	-
1942	21	11	-	11	122.0	-	122.0	10	-	10	115.0	-	115.0
TOTAL 0/00		468	524	995				508	489	996			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	-				-	-	-			
NUMBER OF FISH AGED		-	-	87				-	-	96			
MEAN AGE		-	-	9.4				-	-	8.1			
MEAN WEIGHT (KG)		-	-	-				-	-	4.07			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH OR HOOK SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)		-	-	55-142				-	-	-			

GEAR		HAND LINE (RESEARCH)											
CATCHES/LANDINGS		NK											
MONTH		MAY						JUNE					
COUNTRY		DENMARK						GREENLAND					
TONNAGE		3)											
YEAR-CLASS	AGE	0/00 FREQUENCY			MEAN LENGTH			0/00 FREQUENCY			MEAN LENGTH		
		00	09	TOT.	00	09	TOT.	00	09	TOT.	00	09	TOT.
1960	3	14	14	28	41.3	42.3	41.8	8	16	24	43.0	37.5	39.3
1959	4	137	137	274	50.9	51.6	51.2	32	32	64	51.3	52.0	51.6
1958	5	123	184	307	59.3	60.3	59.9	89	137	226	60.6	60.5	60.6
1957	6	123	179	302	66.8	67.4	67.1	210	218	427	68.2	70.0	69.1
1956	7	28	42	71	67.0	76.6	72.7	89	56	145	76.3	75.4	75.9
1955	8	5	9	14	77.0	72.0	73.7	40	32	73	83.2	77.5	80.7
1954	9	-	5	5	-	82.0	82.0	8	-	8	82.0	-	82.0
1953	10	-	-	-	-	-	-	8	8	16	89.0	90.0	89.5
1948	15	-	-	-	-	-	-	-	16	16	-	81.0	81.0
TOTAL 0/00		430	570	1001				484	515	999			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	-				-	-	-			
NUMBER OF FISH AGED		-	-	212				-	-	124			
MEAN AGE		-	-	5.2				-	-	6.1			
MEAN WEIGHT (KG)		-	-	2.138				-	-	2.8			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH OR HOOK SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)		-	-	-				-	-	49-71			

- 1) M/C "ADOLF JENSEN"
2) FYLLA BANK
3) M/S "DANA" AND M/C "ADOLF JENSEN"

TABLE 31
(CONT'D)

AGE FREQUENCIES - COD - 1D - 1963

(FREQUENCIES IN 0/00)

GEAR		HAND LINE (RESEARCH)											
CATCHES/LANDINGS		NK											
MONTH		JULY 1)						JULY 2)					
COUNTRY		DENMARK						GREENLAND					
TONNAGE		3)						4)					
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	3	-	-	-	-	-	-	43	28	71	41.7	42.8	42.1
1959	4	5	-	5	55.0	-	55.0	43	64	106	59.7	49.0	50.9
1958	5	52	47	98	61.6	61.1	61.4	99	113	213	63.0	59.9	61.3
1957	6	212	207	420	69.2	71.6	70.4	177	142	319	67.5	71.6	69.3
1956	7	187	166	352	75.5	76.8	76.1	64	92	156	79.8	76.9	77.7
1955	8	10	21	31	77.0	87.3	83.8	14	28	43	72.0	84.0	80.0
1954	9	10	5	16	81.5	80.0	81.0	14	-	14	88.0	-	88.0
1953	10	26	16	41	81.6	93.7	86.1	-	21	21	-	89.7	89.7
1952	11	5	-	5	86.0	-	86.0	7	7	14	82.0	103.0	92.5
1951	12	5	-	5	96.0	-	96.0	-	7	7	-	90.0	90.0
1950	13	5	10	16	96.0	93.5	94.3	-	-	-	-	-	-
1949	14	5	-	5	106.0	-	106.0	-	-	-	-	-	-
1948	15	-	-	-	-	-	-	-	-	-	-	-	-
1947	16	5	-	5	95.0	-	95.0	35	-	35	89.4	-	89.4
TOTAL 0/00		527	472	999				496	502	999			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	-				-	-	-			
NUMBER OF FISH AGED		-	-	193				-	-	141			
MEAN AGE		-	-	6.8				-	-	6.2			
MEAN WEIGHT (KG)		-	-	-				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH OR HOOK SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)		-	-	-				-	-	55-82			

- 1) M/S "DANA" AND M/C "ADOLF JENSEN"
- 2) M/C "ADOLF JENSEN"
- 3) DANA BANK
- 4) FYLLA BANK

TABLE 32

AGE FREQUENCIES - COD - IE - 1969

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (COMMERCIAL)											
CATCHES/LANDINGS		CATCHES						LANDINGS					
MONTH		JUNE						MARCH					
COUNTRY		U. S. S. R.						GERMANY					
TONNAGE		OVER 1800						900-1800					
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1960	3	2	3	5	37.00	40.00	39.67	-	-	-	-	-	-
1959	4	2	2	4	58.00	52.00	55.00	-	-	-	-	-	-
1958	5	61	33	94	58.33	60.05	58.24	-	-	65	-	-	-
1957	6	324	179	503	68.08	69.58	68.62	-	-	596	-	-	67.5
1956	7	102	101	203	74.53	75.64	75.07	-	-	214	-	-	73.6
1955	8	30	23	53	78.16	82.21	79.96	-	-	17	-	-	-
1954	9	15	8	23	79.99	85.40	82.21	-	-	19	-	-	-
1953	10	28	10	38	82.18	88.51	83.83	-	-	56	-	-	-
1952	11	2	2	4	94.00	94.00	94.00	-	-	4	-	-	-
1951	12	12	8	20	91.42	90.40	91.00	-	-	9	-	-	-
1950	13	10	4	14	88.99	91.00	89.68	-	-	10	-	-	-
1949	14	2	-	2	88.00	-	88.00	-	-	-	-	-	-
1948	15	3	8	11	95.50	90.40	91.87	-	-	-	-	-	-
1947	16	15	6	21	91.66	91.75	91.69	-	-	7	-	-	-
1946	17	2	-	2	88.00	-	88.00	-	-	1	-	-	-
1945	18	-	3	3	-	92.50	92.50	-	-	-	-	-	-
1945 ¹⁾	>18 ¹⁾	-	-	-	-	-	-	-	-	2	-	-	-
TOTAL ‰		610	390	1000				-	-	1000			
SERIAL NUMBERS		-	-	-				-	-	17			
NUMBER OF SAMPLES		-	-	2				-	-	1			
NUMBER OF FISH AGED		368	237	605				-	-	192			
MEAN AGE		7.00	7.12	7.05				-	-	-			
MEAN WEIGHT (KG)		3.17	3.10	3.00				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	771				-	-	94			
ESTIMATED NUMBER LANDED		-	-	-				-	-	36644			
MESH SIZE (MM)		-	-	110				-	-	120			
RANGE OF DEPTHS (FM)		-	-	177-205				-	-	-			
(CONT'D)													
GEAR		OTTER TRAWL (COMMERCIAL)											
CATCHES/LANDINGS		LANDINGS											
MONTH		APRIL						MAY					
COUNTRY		GERMANY											
TONNAGE		900-1800											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1958	5	-	-	301	-	-	59.0	-	-	50	-	-	-
1957	6	-	-	517	-	-	66.4	-	-	587	-	-	67.9
1956	7	-	-	123	-	-	73.3	-	-	202	-	-	71.5
1955	8	-	-	7	-	-	-	-	-	72	-	-	-
1954	9	-	-	5	-	-	-	-	-	17	-	-	-
1953	10	-	-	32	-	-	-	-	-	52	-	-	-
1952	11	-	-	8	-	-	-	-	-	7	-	-	-
1951	12	-	-	2	-	-	-	-	-	1	-	-	-
1950	13	-	-	3	-	-	-	-	-	7	-	-	-
1948	15	-	-	-	-	-	-	-	-	5	-	-	-
1947	16	-	-	2	-	-	-	-	-	-	-	-	-
TOTAL ‰		-	-	1000				-	-	1000			
SERIAL NUMBERS		-	-	21				-	-	35			
NUMBER OF SAMPLES		-	-	1				-	-	1			
NUMBER OF FISH AGED		-	-	196				-	-	198			
MEAN AGE		-	-	-				-	-	-			
MEAN WEIGHT (KG)		-	-	-				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	78				-	-	175			
ESTIMATED NUMBER LANDED		-	-	35902				-	-	73646			
MESH SIZE (MM)		-	-	120				-	-	120			
RANGE OF DEPTHS (FM)		-	-	-				-	-	-			

1) BEFORE 1945 AND GREATER THAN 18 (AGE)

TABLE 32
(CONT'D)

AGE FREQUENCIES - COD - IE - 1963

(FREQUENCIES IN 0/00)

GEAR		OTTER TRAWL (COMMERCIAL)						OTTER TRAWL (RESEARCH)					
CATCHES/LANDINGS		LANDINGS						CATCHES					
MONTH		JUNE						DECEMBER					
COUNTRY		GERMANY						GERMANY					
TONNAGE		500-900						2000					
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.
1961	2	-	-	-	-	-	-	-	-	77	-	-	-
1960	3	-	-	-	-	-	-	-	-	38	-	-	-
1959	4	-	-	-	-	-	-	-	-	135	-	-	52.5
1958	5	-	-	124	-	-	59.3	-	-	598	-	-	63.3
1957	6	-	-	264	-	-	66.8	-	-	33	-	-	-
1956	7	-	-	414	-	-	72.5	-	-	179	-	-	78.1
1955	8	-	-	66	-	-	-	-	-	-	-	-	-
1954	9	-	-	28	-	-	-	-	-	-	-	-	-
1953	10	-	-	62	-	-	-	-	-	-	-	-	-
1952	11	-	-	2	-	-	-	-	-	-	-	-	-
1951	12	-	-	8	-	-	-	-	-	-	-	-	-
1950	13	-	-	16	-	-	-	-	-	-	-	-	-
1949	14	-	-	2	-	-	-	-	-	-	-	-	-
1948	15	-	-	2	-	-	-	-	-	-	-	-	-
1947	16	-	-	11	-	-	-	-	-	-	-	-	-
1945	18	-	-	1	-	-	-	-	-	-	-	-	-
TOTAL 0/00		-	-	1000						1000			
SERIAL NUMBERS		-	-	36						34			
NUMBER OF SAMPLES		-	-	1						1			
NUMBER OF FISH AGED		-	-	222						64			
MEAN AGE		-	-	-						-			
MEAN WEIGHT (KG)		-	-	-						-			
TOTAL WEIGHT LANDED (TONS)		-	-	270						-			
ESTIMATED NUMBER LANDED		-	-	107228						-			
MESH SIZE (MM)		-	-	120						110			
RANGE OF DEPTHS (FM)		-	-	-						-			

GEAR		OTTER TRAWL (RESEARCH)											
CATCHES/LANDINGS		NK											
MONTH		MAY			MAY								
COUNTRY		DENMARK			GREENLAND								
TONNAGE		1)											
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	4	3	3	5	46.0	45.0	45.5	29	15	44	48.2	47.7	48.0
1958	5	97	64	160	55.8	58.5	56.9	196	186	382	52.4	53.1	52.8
1957	6	178	153	331	66.2	67.6	66.9	44	54	98	59.9	61.9	61.0
1956	7	137	224	361	70.6	74.1	72.8	216	230	446	67.1	67.7	67.4
1955	8	3	41	43	70.0	79.4	78.8	5	15	20	73.0	69.0	70.0
1954	9	5	13	18	85.5	79.8	81.4	5	-	5	66.0	-	66.0
1953	10	25	36	61	85.7	83.1	84.2	-	5	5	-	94.0	94.0
1952	11	8	-	8	91.0	-	91.0	-	-	-	-	-	-
1951	12	-	5	5	-	86.5	86.5	-	-	-	-	-	-
1950	13	-	8	8	-	90.3	90.3	-	-	-	-	-	-
TOTAL 0/00		456	547	1000				495	505	1000			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	-				-	-	-			
NUMBER OF FISH AGED		-	-	393				-	-	204			
MEAN AGE		-	-	6.7				-	-	6.0			
MEAN WEIGHT (KG)		-	-	-				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
MESH SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)		-	-	80-180				-	-	80-100			

1) S/T "SKALLABERG"

TABLE 32
(CONT'D)

AGE FREQUENCIES - COD - 1E - 1963

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (RESEARCH)											
CATCHES/LANDINGS		NK											
MONTH		MAY					MAY						
COUNTRY		DENMARK					GREENLAND						
TONNAGE)											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1958	5	28	13	41	61.4	60.3	61.1	33	24	57	60.7	61.8	61.2
1957	6	265	211	476	68.2	69.5	68.7	382	179	561	67.6	69.6	68.2
1956	7	126	117	243	74.2	74.4	74.3	85	137	222	73.3	72.1	72.5
1955	8	25	47	73	79.0	77.9	78.3	38	9	47	79.9	84.5	80.8
1954	9	3	22	25	79.0	81.9	81.5	9	5	14	84.0	83.0	83.7
1953	10	63	38	101	82.6	86.8	84.2	33	42	75	87.1	85.1	86.0
1952	11	9	3	13	86.3	98.0	90.0	9	5	14	89.5	101.0	93.3
1950	13	3	16	19	78.0	89.0	90.0	-	5	5	-	90.0	90.0
1948	15	-	-	-	-	-	-	-	5	5	-	83.0	83.0
1947	16	6	3	9	90.5	93.0	91.3	-	-	-	-	-	-
TOTAL ‰		528	470	1000				589	411	1000			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	-				-	-	-			
NUMBER OF FISH AGED		-	-	317				-	-	212			
MEAN AGE		-	-	7.1				-	-	6.8			
MEAN WEIGHT (KG)		-	-	-				-	-	-			
TOTAL WEIGHT LANDED		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)		-	-	165-180				-	-	70-190			

(CONT'D)

GEAR		OTTER TRAWL (RESEARCH)											
CATCHES/LANDINGS		NK											
MONTH		MAY					MAY-JUNE						
COUNTRY		DENMARK					GREENLAND						
TONNAGE)											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1959	4	-	13	13	-	52.5	52.5	2	-	2	51.0	-	51.0
1958	5	213	239	452	59.0	59.9	59.5	43	39	81	60.1	61.6	60.8
1957	6	123	103	226	66.1	65.2	65.7	301	192	493	67.0	69.0	67.8
1956	7	97	161	258	71.5	73.2	72.5	103	102	205	73.4	74.1	73.8
1955	8	-	13	13	-	80.0	80.0	26	35	61	78.2	79.1	78.7
1954	9	13	13	26	81.0	83.0	82.0	26	17	43	81.4	83.3	82.1
1953	10	-	13	13	-	90.0	90.0	30	31	61	84.1	88.7	86.5
1952	11	-	-	-	-	-	-	7	-	7	83.3	-	83.3
1951	12	-	-	-	-	-	-	-	4	4	-	93.0	93.0
1950	13	-	-	-	-	-	-	18	13	31	90.4	93.0	91.5
1947	16	-	-	-	-	-	-	6	6	11	93.0	92.0	92.5
TOTAL ‰		446	555	1001				562	439	999			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	-				-	-	-			
NUMBER OF FISH AGED		-	-	155				-	-	541			
MEAN AGE		-	-	5.9				-	-	7.2			
MEAN WEIGHT (KG)		-	-	-				-	-	-			
TOTAL WEIGHT LANDED		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)		-	-	120-150				-	-	70-180			

1) S/T "SKALLABERG"

TABLE 32
(CONT'D)

AGE FREQUENCIES - COD - IE - 1963

(FREQUENCIES IN ‰)

GEAR		LONG LINE (RESEARCH)											
CATCHES/LANDINGS		NK											
MONTH		AUGUST						NK					
COUNTRY		DENMARK (GREENLAND)											
TONNAGE		1)						2)					
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	00	TOT.	00	00	TOT.	00	00	TOT.	00	00	TOT.
1959	4	-	10	10	-	51.0	51.0	15	15	30	50.5	57.5	54.0
1958	5	29	19	49	61.3	60.5	61.0	15	30	45	62.5	62.8	62.7
1957	6	97	58	155	67.9	70.8	69.0	159	114	273	68.2	71.1	69.4
1956	7	68	243	311	80.0	78.3	78.7	76	91	167	75.5	80.7	78.9
1955	8	10	39	49	78.0	82.8	81.8	15	38	53	73.0	82.8	80.0
1954	9	-	19	19	-	89.5	89.5	23	8	30	81.7	90.0	83.8
1953	10	78	58	136	82.3	93.3	87.0	53	38	91	82.1	84.2	83.0
1952	11	19	29	49	81.5	80.0	80.6	8	15	23	95.0	91.5	92.7
1951	12	-	-	-	-	-	-	23	23	45	87.7	81.0	84.9
1950	13	19	39	58	86.5	101.8	96.7	30	68	98	81.5	85.9	84.5
1949	14	10	-	10	79.0	-	79.0	-	-	-	-	-	-
1948	15	10	10	19	89.0	76.0	82.5	23	15	38	81.3	85.0	82.8
1947	16	78	39	116	91.9	98.5	94.1	38	38	76	86.0	88.6	87.3
1945	18	-	-	-	-	-	-	-	15	15	-	89.0	89.0
1944	19	-	10	10	-	147.0	147.0	-	-	-	-	-	-
1943	20	-	-	-	-	-	-	8	-	8	82.0	-	82.0
1942	21	10	-	10	87.0	-	87.0	9	-	8	87.0	-	87.0
TOTAL ‰		428	573	1001				494	508	1000			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	-				-	-	-			
NUMBER OF FISH AGED		-	-	109				-	-	132			
MEAN AGE		-	-	9.3				-	-	9.2			
MEAN WEIGHT (KG)		-	-	5.228				-	-	4.267			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH OR HOOK SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)		-	-	55-66				-	-	82			

(CONT'D)

GEAR		HAND LINE (RESEARCH)											
CATCHES/LANDINGS		NK											
MONTH		AUGUST						AUGUST					
COUNTRY		DENMARK (GREENLAND)											
TONNAGE		1)						2)					
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	00	TOT.	00	00	TOT.	00	00	TOT.	00	00	TOT.
1960	3	-	-	-	-	-	-	6	12	18	37.0	40.0	39.0
1959	4	-	-	-	-	-	-	12	6	18 ³⁾	46.0	47.0	46.3
1958	5	84	48	133	58.4	59.3	58.7	221	233	460	55.7	54.0	55.0
1957	6	151	102	253	70.1	69.0	69.6	74	43	117	65.8	67.0	66.3
1956	7	205	277	482 ¹⁾	75.9	74.9	75.1	166	190	356	72.1	72.1	72.1
1955	8	30	30	60	80.4	82.2	81.3	-	18	18	-	80.3	80.3
1954	9	-	-	-	-	-	-	6	-	6	81.0	-	81.0
1953	10	24	12	36	80.3	85.5	82.0	-	-	-	-	-	-
1952	11	-	6	6	-	95.0	95.0	-	-	-	-	-	-
1950	13	6	6	12	84.0	83.0	83.5	6	-	6	80.0	-	80.0
1949	14	-	6	6	-	90.0	90.0	-	-	-	-	-	-
1947	16	6	-	6	74.0	-	74.0	-	-	-	-	-	-
TOTAL ‰		506	487	1000				491	502	999			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	-				-	-	-			
NUMBER OF FISH AGED		-	-	166				-	-	163			
MEAN AGE		-	-	6.8				-	-	5.9			
MEAN WEIGHT (KG)		-	-	3.335				-	-	2.355			
TOTAL WEIGHT LANDED		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH OR HOOK SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)		-	-	27-109				-	-	22-82			

1) M/C "ADOLF JENSEN" AND GREENLANDERS'

2) M/S "DANA" AND M/C "ADOLF JENSEN"

3) ONE NOT SEXED

TABLE 33

AGE FREQUENCIES - COD - IF - 1963

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (COMMERCIAL)											
CATCHES/LANDINGS		LANDINGS											
MONTH		JANUARY						MARCH					
COUNTRY		GERMANY											
TONNAGE		500-900											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1958	5	-	-	94	-	-	-	-	-	63	-	-	-
1957	6	-	-	75	-	-	-	-	-	598	-	-	66.8
1956	7	-	-	754	-	-	70.0	-	-	278	-	-	73.0
1955	8	-	-	14	-	-	-	-	-	26	-	-	-
1954	9	-	-	11	-	-	-	-	-	10	-	-	-
1953	10	-	-	17	-	-	-	-	-	39	-	-	-
1952	11	-	-	6	-	-	-	-	-	10	-	-	-
1951	12	-	-	2	-	-	-	-	-	5	-	-	-
1950	13	-	-	14	-	-	-	-	-	9	-	-	-
1949	14	-	-	-	-	-	-	-	-	1	-	-	-
1948	15	-	-	2	-	-	-	-	-	3	-	-	-
1947	16	-	-	11	-	-	-	-	-	15	-	-	-
1946	17	-	-	-	-	-	-	-	-	1	-	-	-
1945	18	-	-	-	-	-	-	-	-	1	-	-	-
1945 ¹⁾	>18 ¹⁾	-	-	-	-	-	-	-	-	1	-	-	-
TOTAL ‰		-	-	1000	/			-	-	1000	/		
SERIAL NUMBERS		-	-	6				-	-	12,16,18			
NUMBER OF SAMPLES		-	-	1				-	-	3			
NUMBER OF FISH AGED		-	-	193				-	-	474			
MEAN AGE		-	-	-				-	-	-			
MEAN WEIGHT (KG)		-	-	-				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	177				-	-	300			
ESTIMATED NUMBER LANDED		-	-	72723				-	-	118239			
MESH SIZE (MM)		-	-	120				-	-	120			
RANGE OF DEPTHS (FM)		-	-	-				-	-	-			
GEAR		OTTER TRAWL (COMMERCIAL)											
CATCHES/LANDINGS		LANDINGS											
MONTH		APRIL						NOVEMBER					
COUNTRY		GERMANY											
TONNAGE		500-900											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1959	4	-	-	-	-	-	-	-	-	4	-	-	-
1958	5	-	-	313	-	-	57.2	-	-	198	-	-	60.9
1957	6	-	-	181	-	-	61.4	-	-	130	-	-	67.1
1956	7	-	-	485	-	-	67.2	-	-	635	-	-	74.8
1955	8	-	-	9	-	-	-	-	-	27	-	-	-
1954	9	-	-	-	-	-	-	-	-	3	-	-	-
1953	10	-	-	9	-	-	-	-	-	1	-	-	-
1950	13	-	-	-	-	-	-	-	-	2	-	-	-
1947	16	-	-	1	-	-	-	-	-	-	-	-	-
1945	18	-	-	2	-	-	-	-	-	-	-	-	-
TOTAL ‰		-	-	1000	/			-	-	1000	/		
SERIAL NUMBERS		-	-	28				-	-	53			
NUMBER OF SAMPLES		-	-	1				-	-	1			
NUMBER OF FISH AGED		-	-	263				-	-	210			
MEAN AGE		-	-	-				-	-	-			
MEAN WEIGHT (KG)		-	-	-				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	100				-	-	53			
ESTIMATED NUMBER LANDED		-	-	55752				-	-	20204			
MESH SIZE (MM)		-	-	120				-	-	120			
RANGE OF DEPTHS (FM)		-	-	-				-	-	-			

1) BEFORE 1945 AND GREATER THAN 18 (AGE)

TABLE 33
(CONT'D)

AGE FREQUENCIES - COD - IF - 1963

(FREQUENCIES IN ‰)

GEAR		UTTER TRAWL (RESEARCH)						LONG LINE (RESEARCH)					
CATCHES/LANDINGS		CATCHES						NK					
MONTH		DECEMBER						SEPTEMBER					
COUNTRY		GERMANY						DENMARK (GREENLAND)					
TONNAGE		2000						1)					
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1961	2	-	-	55	-	-	-	-	-	-	-	-	-
1960	3	-	-	13	-	-	-	-	-	-	-	-	-
1959	4	-	-	55	-	-	-	-	-	-	-	-	-
1958	5	-	-	714	-	-	59.9	6	12	18	62.0	57.0	58.7
1957	6	-	-	86	-	-	-	105	82	187	68.2	70.6	69.3
1956	7	-	-	61	-	-	-	105	111	216	72.7	72.9	72.8
1955	8	-	-	-	-	-	-	6	12	18	76.0	73.0	74.0
1954	9	-	-	-	-	-	-	18	-	18	74.7	-	74.7
1953	10	-	-	6	-	-	-	76	58	134	77.2	79.3	78.1
1952	11	-	-	-	-	-	-	6	6	12	74.0	81.0	77.5
1951	12	-	-	-	-	-	-	47	-	47	80.0	-	80.0
1950	13	-	-	-	-	-	-	58	53	111	76.1	85.4	80.5
1949	14	-	-	-	-	-	-	6	6	12	90.0	83.0	86.5
1948	15	-	-	-	-	-	-	23	18	41	77.3	81.3	79.0
1947	16	-	-	-	-	-	-	88	70	158	81.3	83.4	82.2
1947 ²⁾	>16 ²⁾	-	-	10	-	-	-	-	-	-	-	-	-
1946	17	-	-	-	-	-	-	-	6	6	-	79.0	79.0
1945	18	-	-	-	-	-	-	6	-	6	78.0	-	78.0
1944	19	-	-	-	-	-	-	6	-	6	81.0	-	81.0
1943	20	-	-	-	-	-	-	-	6	6	-	79.0	79.0
1942	21	-	-	-	-	-	-	-	6	6	-	86.0	86.0
TOTAL ‰		-	-	1000				556	446	1002			
SERIAL NUMBERS		-	-	35				-	-	-			
NUMBER OF SAMPLES		-	-	1				-	-	-			
NUMBER OF FISH AGED		-	-	141				-	-	171			
MEAN AGE		-	-	-				-	-	10.4			
MEAN WEIGHT (KG)		-	-	-				-	-	4.168			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH OR HOOK SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)		-	-	-				-	-	49-60			

(CONT'D)

GEAR		HAND LINE (RESEARCH)											
CATCHES/LANDINGS		NK											
MONTH		AUGUST			SEPTEMBER								
COUNTRY		DENMARK (GREENLAND)											
TONNAGE		1)											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1959	4	5	15	20	53.0	48.0	49.3	6	-	6	50.0	-	50.0
1958	5	130	125	255	56.0	54.2	55.1	52	52	104	56.6	56.8	56.7
1957	6	85	45	130	62.1	61.9	62.0	104	75	179	65.7	66.5	66.0
1956	7	275	250	525	68.7	70.2	69.4	260	272	532	71.0	72.9	72.0
1955	8	15	30	45	71.7	79.0	76.6	17	17	35	80.3	80.0	80.2
1954	9	-	-	-	-	-	-	6	-	6	71.0	-	71.0
1953	10	5	5	10	83.0	87.0	85.0	29	23	52	80.2	81.3	80.7
1952	11	-	5	5	-	77.0	77.0	12	6	17	80.0	89.0	83.0
1951	12	-	-	-	-	-	-	6	-	6	82.0	-	82.0
1950	13	5	-	5	88.0	-	88.0	29	17	46	78.8	76.7	78.0
1947	16	5	-	5	78.0	-	78.0	17	-	17	74.0	-	74.0
TOTAL ‰		525	475	1000				538	462	1000			
NUMBER OF FISH AGED		-	-	200				-	-	173			
MEAN AGE		-	-	6.5				-	-	7.3			
MEAN WEIGHT (KG)		-	-	2.5				-	-	3.2			
RANGE OF DEPTHS (FM)		-	-	16-82				-	-	-			

1) M/C "ADOLF JENSEN"

2) BEFORE 1947 AND GREATER THAN 16 (AGE)

TABLE 33
(CONT'D)

AGE FREQUENCIES - COD - IF - 1963

(FREQUENCIES IN ‰)

GEAR		GREENLANDERS ¹ (RESEARCH)					
CATCHES/LANDINGS		NK					
MONTH		FEBRUARY					
COUNTRY		DENMARK (GREENLAND)					
TONNAGE		1)					
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH		
		00	00	Tot.	00	00	Tot.
1959	4	8	-	8	-	51.0	51.0
1958	5	23	70	93	52.3	55.6	54.8
1957	6	62	23	85	62.1	61.7	62.0
1956	7	403	349	752	70.3	69.9	70.1
1955	8	16	16	31	68.5	74.5	71.5
1954	9	-	-	-	-	-	-
1953	10	8	8	16	80.0	74.0	77.0
1952	11	-	-	-	-	-	-
1951	12	-	-	-	-	-	-
1950	13	-	8	8	-	94.0	94.0
1949	14	-	-	-	-	-	-
1948	15	-	-	-	-	-	-
1947	16	-	8	8	-	73.0	73.0
TOTAL ‰		520	482	1001			
SERIAL NUMBERS		-	-	-			
NUMBER OF SAMPLES		-	-	-			
NUMBER OF FISH AGED		-	-	129			
MEAN AGE		-	-	6.9			
MEAN WEIGHT (KG)		-	-	2.952			
TOTAL WEIGHT LANDED (TONS)		-	-	-			
ESTIMATED NUMBER LANDED		-	-	-			
MESH OR HOOK SIZE		-	-	-			
RANGE OF DEPTHS (FM)		-	-	-			

1) GREENLANDERS¹

TABLE 34

AGE FREQUENCIES - COD - INK - 1963

(FREQUENCIES IN 0/00)

GEAR		OTTER TRAWL (RESEARCH)											
CATCHES/LANDINGS		NK											
MONTH		APRIL						MAY					
COUNTRY		NORWAY											
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.
1960	3	16	9	25	40.8	40.3	40.7	-	-	-	-	-	-
1959	4	70	62	132	50.6	50.3	50.5	19	-	19	56.0	-	56.0
1958	5	111	102	213	56.9	58.5	57.7	113	66	179	58.7	59.4	59.0
1957	6	290	218	508	62.9	64.7	63.7	236	264	500	64.9	67.2	66.1
1956	7	19	29	48	71.2	72.1	71.8	76	104	180	76.6	75.0	75.7
1955	8	10	8	18	80.9	77.2	79.3	9	28	37	80.0	75.0	76.3
1954	9	8	8	16	81.0	78.8	79.6	-	19	19	-	72.0	72.0
1953	10	20	6	26	81.5	87.5	82.9	9	48	57	80.0	81.4	81.2
1952	11	2	3	5	79.0	78.5	78.7	-	-	-	-	-	-
1951	12	-	3	3	-	83.5	83.5	-	-	-	-	-	-
1950	13	2	-	2	85.0	-	85.0	-	-	-	-	-	-
1948	15	2	-	2	94.0	-	94.0	-	9	9	-	91.0	91.0
1947	16	2	-	2	80.0	-	80.0	-	-	-	-	-	-
TOTAL 0/00		552	448	1000				462	538	1000			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	6				-	-	1			
NUMBER OF FISH AGED		363	294	657				49	57	106			
MEAN AGE		-	-	-				-	-	-			
MEAN WEIGHT (KG)		-	-	-				-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH SIZE		-	-	-				-	-	-			
RANGE OF DEPTHS (FM)		-	-	-				-	-	-			
(CONT'D)													
GEAR		BOTTOM LONG LINE (RESEARCH)											
CATCHES/LANDINGS		NK											
MONTH		APRIL						MAY					
COUNTRY		NORWAY											
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.
1960	3	5	18	23	44.0	42.5	42.8	-	10	10	-	41.0	41.0
1959	4	49	36	85	47.8	50.1	48.8	60	40	100	51.5	47.5	49.9
1958	5	58	49	107	58.2	59.1	58.6	130	130	260	57.4	60.9	59.2
1957	6	139	387	526	63.9	65.6	65.1	110	170	280	66.1	68.7	67.6
1956	7	18	45	63	68.5	71.4	70.6	50	60	110	73.2	73.5	73.4
1955	8	18	31	49	75.8	76.3	76.1	10	70	80	70.0	85.1	83.3
1954	9	23	27	50	81.6	81.7	81.6	20	20	40	84.5	84.0	84.3
1953	10	18	31	49	87.5	84.0	85.3	30	30	60	85.7	89.3	87.5
1952	11	5	23	28	79.0	83.6	82.8	10	10	20	90.0	80.0	85.0
1951	12	-	5	5	-	84.0	84.0	-	10	10	-	94.0	94.0
1950	13	-	5	5	-	96.0	96.0	-	-	-	-	-	-
1949	14	-	-	-	-	-	-	-	10	10	-	89.0	89.0
1948	15	-	-	-	-	-	-	10	-	10	88.0	-	88.0
1947	16	-	5	5	-	95.0	95.0	10	-	10	85.0	-	85.0
1946	17	-	5	5	-	104.0	104.0	-	-	-	-	-	-
TOTAL 0/00		333	667	1000				440	560	1000			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	2				-	-	1			
NUMBER OF FISH AGED		74	148	222				-	-	-			
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 - 26 - 1963

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (EXPLORATORY)					
CATCHES/LANDINGS		CATCHES					
MONTH		APRIL					
COUNTRY		U. S. S. R.					
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.
1958	5	1	-	1	58.00	-	58.00
1957	6	24	21	45	52.78	54.61	53.65
1956	7	39	41	80	52.60	56.50	54.61
1955	8	33	86	119	55.66	58.57	57.79
1954	9	43	93	136	56.05	59.80	58.63
1953	10	26	93	119	58.30	61.71	61.03
1952	11	30	78	108	58.36	63.61	62.14
1951	12	25	67	92	59.59	64.03	62.86
1950	13	29	50	79	61.63	64.99	64.09
1949	14	12	49	61	63.13	65.44	64.99
1948	15	15	32	47	63.64	67.33	66.16
1947	16	11	26	37	62.70	69.31	68.47
1946	17	9	25	34	66.10	71.77	70.24
1945	18	7	17	24	64.42	70.00	68.26
1944	19	3	7	10	64.50	70.75	69.25
1943	20	1	3	4	-	-	-
1942	21	-	3	3	-	-	-
1941	22	-	1	1	-	-	-
TOTAL ‰		308	692	1000			
SERIAL NUMBERS		24	26	27,28			
NUMBER OF SAMPLES		-	-	4			
NUMBER OF FISH AGED		350	785	1135			
MEAN AGE		10.91	11.26	11.07			
MEAN WEIGHT (KG)		1.58	2.10	1.91			
TOTAL WEIGHT LANDED (TONS)		-	-	1185			
ESTIMATED NUMBER LANDED		-	-	-			
MESH SIZE (MM)		-	-	110			
RANGE OF DEPTHS (FM)		-	-	147-212			

TABLE 36

AGE FREQUENCIES - COD - 2J - 1963

(FREQUENCIES IN 0/00)

GEAR		OTTER TRAWL (COMMERCIAL)					
CATCHES/LANDINGS		CATCHES					
MONTH		NK					
COUNTRY		POLAND					
TONNAGE		2670					
YEAR-CLASS	AGE	0/00 FREQUENCY			MEAN LENGTH		
		00	00	TOT.	00	00	TOT.
1960	3	-	-	3	-	-	-
1959	4	-	-	52	-	-	46.9
1958	5	-	-	150	-	-	50.7
1957	6	-	-	351	-	-	52.1
1956	7	-	-	244	-	-	55.3
1955	8	-	-	58	-	-	60.5
1954	9	-	-	58	-	-	60.9
1953	10	-	-	21	-	-	66.7
1952	11	-	-	30	-	-	69.5
1951	12	-	-	15	-	-	70.6
1950	13	-	-	6	-	-	-
1949	14	-	-	6	-	-	-
1948	15	-	-	-	-	-	-
1947	16	-	-	-	-	-	-
1946	17	-	-	-	-	-	-
1945	18	-	-	-	-	-	-
1944	19	-	-	3	-	-	-
1943	20	-	-	3	-	-	-
TOTAL 0/00		-	-	1000	/		
SERIAL NUMBERS		-	-	-			
NUMBER OF SAMPLES		-	-	2			
NUMBER OF FISH AGED		-	-	328			
MEAN AGE		-	-	6.8			
MEAN WEIGHT (KG)		-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-			
ESTIMATED NUMBER LANDED		-	-	-			
MESH SIZE (MM)		-	-	100			
RANGE OF DEPTHS (FM)		-	-	175-200			

TABLE 36

AGE FREQUENCIES - COD - 2J - 1963

(FREQUENCIES IN 0/00)

GEAR		OTTER TRAWL (EXPLORATORY)											
CATCHES/LANDINGS		CATCHES											
MONTH		APRIL						MAY					
COUNTRY		U. S. S. R.											
TONNAGE		1800											
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.
1960	3	1	3	4	28.00	25.00	26.50	-	-	-	-	-	-
1959	4	35	40	75	32.45	31.87	32.14	10	3	13	-	-	-
1958	5	32	41	73	35.70	35.03	35.32	19	15	34	-	-	36.89
1957	6	120	46	166	46.93	46.14	46.60	42	22	64	43.00	42.64	42.71
1956	7	265	124	389	49.10	49.86	49.34	153	113	266	47.59	46.14	47.41
1955	8	108	39	147	52.88	54.83	53.40	119	74	193	50.83	52.81	51.58
1954	9	37	26	63	54.43	54.88	54.62	43	62	105	55.18	57.64	56.62
1953	10	17	10	27	60.25	58.90	59.73	48	59	107	56.69	58.69	57.76
1952	11	11	5	16	59.50	59.80	59.60	20	29	49	59.86	60.34	60.16
1951	12	6	4	10	64.00	63.25	63.70	23	34	57	60.82	62.65	61.93
1950	13	4	5	9	61.75	62.80	62.67	10	18	28	57.58	63.13	61.27
1949	14	1	3	4	64.00	64.00	64.00	5	16	21	-	-	64.57
1948	15	2	-	2	71.50	-	71.50	6	10	16	63.40	64.75	64.24
1947	16	4	3	7	-	-	67.87	4	9	13	-	-	64.70
1946	17	5	1	6	69.40	58.00	68.00	5	6	11	-	-	67.66
1945	18	1	-	1	70.00	-	70.00	2	8	10	-	-	74.11
1944	19	-	-	-	-	-	-	2	6	8	-	-	72.13
1943	20	1	-	1	67.00	-	67.00	2	2	4	-	-	-
1942	21	-	-	-	-	-	-	-	-	-	-	-	-
1941	22	-	-	-	-	-	-	-	1	1	-	-	-
TOTAL 0/00		650	350	1000				513	487	1000			
SERIAL NUMBERS		22	29	38,39				20	23	30			
NUMBER OF SAMPLES		-	-	4				-	-	3			
NUMBER OF FISH AGED		615	330	945				409	388	797			
MEAN AGE		7.29	7.04	7.12				8.49	9.57	9.01			
MEAN WEIGHT (KG)		1.00	0.97	1.00				1.17	1.53	1.35			
TOTAL WEIGHT LANDED (TONS)		-	-	10742				-	-	3584			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH SIZE (MM)		-	-	110				-	-	110			
RANGE OF DEPTHS (FM)		-	-	118-261				-	-	110-246			

TABLE 37

AGE FREQUENCIES - COD - 3K - 1963

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (COMMERCIAL)											
CATCHES/LANDINGS		CATCHES											
MONTH		FEBRUARY						DECEMBER					
COUNTRY		POLAND											
TONNAGE		2670											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1961	2	-	-	2	-	-	-	-	-	-	-	-	-
1960	3	-	-	22	-	-	34.5	-	-	11	-	-	-
1959	4	-	-	88	-	-	44.0	-	-	68	-	-	48.3
1958	5	-	-	262	-	-	48.8	-	-	299	-	-	59.5
1957	6	-	-	314	-	-	51.8	-	-	390	-	-	56.1
1956	7	-	-	182	-	-	56.3	-	-	80	-	-	62.6
1955	8	-	-	58	-	-	60.6	-	-	68	-	-	75.0
1954	9	-	-	16	-	-	62.8	-	-	46	-	-	79.0
1953	10	-	-	14	-	-	73.5	-	-	45	-	-	79.0
1952	11	-	-	7	-	-	76.2	-	-	45	-	-	91.5
1951	12	-	-	7	-	-	67.2	-	-	23	-	-	98.5
1950	13	-	-	9	-	-	79.2	-	-	11	-	-	-
1949	14	-	-	5	-	-	76.0	-	-	11	-	-	-
1948	15	-	-	9	-	-	75.6	-	-	23	-	-	-
1947	16	-	-	2	-	-	-	-	-	-	-	-	-
1946	17	-	-	-	-	-	-	-	-	-	-	-	-
1945	18	-	-	-	-	-	-	-	-	-	-	-	-
1944	19	-	-	-	-	-	-	-	-	-	-	-	-
1943	20	-	-	3	-	-	-	-	-	-	-	-	-
TOTAL ‰		-	-	1000	/			-	-	1000	/		
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	5				-	-	1			
NUMBER OF FISH AGED		-	-	562				-	-	88			
MEAN AGE		-	-	6.2				-	-	6.9			
MEAN WEIGHT (KG)		-	-	-				-	-	2.86			
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH SIZE (MM)		-	-	100				-	-	100			
RANGE OF DEPTHS (FM)		-	-	-120-209				-	-	-			

TABLE 37
(CONT'D)

AGE FREQUENCIES - COD - 3K - 1963

(FREQUENCIES IN $\%$)

GEAR		OTTER TRAWL (EXPLORATORY)						
CATCHES/LANDINGS		CATCHES						
MONTH		MAY						
COUNTRY		U. S. S. R.						
TONNAGE		1800						
YEAR-CLASS	AGE	$\%$ FREQUENCY			MEAN LENGTH			
		$\%$	$\%$	TOT.	$\%$	$\%$	TOT.	
1960	3	2	2	4	-	-	-	
1959	4	29	11	40	31.93	32.80	31.84	
1958	5	32	25	57	36.13	35.20	35.74	
1957	6	45	36	81	43.75	42.82	43.39	
1956	7	143	145	288	47.44	48.52	47.98	
1955	8	63	84	147	51.67	53.86	52.93	
1954	9	43	57	100	56.74	58.81	57.79	
1953	10	20	45	65	57.61	60.40	60.07	
1952	11	16	34	50	61.84	63.34	62.86	
1951	12	18	36	54	64.84	63.13	63.70	
1950	13	16	11	27	64.00	66.40	64.99	
1949	14	9	16	25	-	-	67.00	
1948	15	7	11	18	-	-	67.84	
1947	16	4	4	8	-	-	-	
1946	17	9	4	13	-	-	-	
1945	18	-	9	9	-	-	-	
1944	19	-	4	4	-	-	-	
1943	20	2	4	6	-	-	-	
1942	21	-	2	2	-	-	-	
1941	22	2	-	2	-	-	-	
TOTAL $\%$		460	540	1000				
SERIAL NUMBERS		31	25	-				
NUMBER OF SAMPLES		-	-	2				
NUMBER OF FISH AGED		204	240	444				
MEAN AGE		8.28	9.08	8.68				
MEAN WEIGHT (KG)		0.950	1.260	1.130				
TOTAL WEIGHT LANDED (TONS)		-	-	837				
ESTIMATED NUMBER LANDED		-	-	-				
MESH SIZE (MM)		-	-	110				
RANGE OF DEPTHS (FM)		-	-	112-175				

TABLE 38

AGE FREQUENCIES - COD - 3L - 1963

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (COMMERCIAL)													
CATCHES/LANDINGS		CATCHES													
MONTH		JANUARY					FEBRUARY								
COUNTRY		POLAND													
TONNAGE		2670													
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH				
		‰	‰	TOT.	‰	‰	TOT.	‰	‰	TOT.	‰	‰	TOT.		
1961	2	-	-	16	-	-	31.4	-	-	20	-	-	35.0		
1960	3	-	-	36	-	-	36.8	-	-	27	-	-	37.7		
1959	4	-	-	243	-	-	41.5	-	-	95	-	-	48.5		
1958	5	-	-	414	-	-	47.2	-	-	306	-	-	52.0		
1957	6	-	-	162	-	-	51.9	-	-	191	-	-	55.4		
1956	7	-	-	39	-	-	63.5	-	-	109	-	-	64.9		
1955	8	-	-	19	-	-	75.5	-	-	123	-	-	74.2		
1954	9	-	-	10	-	-	55.3	-	-	41	-	-	72.2		
1953	10	-	-	13	-	-	82.5	-	-	27	-	-	81.5		
1952	11	-	-	13	-	-	93.5	-	-	27	-	-	81.0		
1951	12	-	-	10	-	-	92.0	-	-	27	-	-	78.5		
1950	13	-	-	10	-	-	103.0	-	-	-	-	-	-		
1949	14	-	-	6	-	-	-	-	-	-	-	-	-		
1948	15	-	-	3	-	-	-	-	-	-	-	-	-		
1947	16	-	-	6	-	-	-	-	-	-	-	-	-		
1946	17	-	-	-	-	-	-	-	-	7	-	-	-		
TOTAL ‰		-	-	1000	/			-	-	1000	/				
SERIAL NUMBERS		-	-	-				-	-	-				-	-
NUMBER OF SAMPLES		-	-	2				-	-	-				-	1
NUMBER OF FISH AGED		-	-	309				-	-	-				-	147
MEAN AGE		-	-	5.5				-	-	-				-	6.3
MEAN WEIGHT (KG)		-	-	-				-	-	-				-	2.081
TOTAL WEIGHT LANDED (TONS)		-	-	-				-	-	-				-	-
ESTIMATED NUMBER LANDED		-	-	-				-	-	-				-	-
MESH SIZE (MM)		-	-	100				-	-	-				-	100
RANGE OF DEPTHS (FM)		-	-	187-190				-	-	-				-	-

TABLE 39

AGE FREQUENCIES - COD - 3M - 1963

(FREQUENCIES IN 0/00)

GEAR		OTTER TRAWL (COMMERCIAL)					
CATCHES/LANDINGS		CATCHES					
MONTH		MARCH					
COUNTRY		POLAND					
TONNAGE		2670					
YEAR-CLASS	AGE	0/00 FREQUENCY			MEAN LENGTH		
		00	00	TOT.	00	00	TOT.
1959	4	-	-	15	-	-	47.7
1958	5	-	-	321	-	-	50.7
1957	6	-	-	289	-	-	55.9
1956	7	-	-	131	-	-	60.6
1955	8	-	-	84	-	-	64.4
1954	9	-	-	101	-	-	64.3
1953	10	-	-	34	-	-	65.0
1952	11	-	-	11	-	-	66.7
1951	12	-	-	6	-	-	74.7
1950	13	-	-	6	-	-	70.7
1949	14	-	-	2	-	-	-
TOTAL 0/00		-	-	1000	/		
SERIAL NUMBERS		-	-	-			
NUMBER OF SAMPLES		-	-	5			
NUMBER OF FISH AGED		-	-	534			
MEAN AGE		-	-	6.8			
MEAN WEIGHT (KG)		-	-	-			
TOTAL WEIGHT LANDED (TONS)		-	-	-			
ESTIMATED NUMBER LANDED		-	-	-			
MESH SIZE (MM)		-	-	100			
RANGE OF DEPTHS (FM)		-	-	164-262			

TABLE 40

AGE FREQUENCIES - COD - 1963

(FREQUENCIES IN ‰)

AREA		SOUTH-EAST GREENLAND											
GEAR		OTTER TRAWL (COMMERCIAL)											
CATCHES/LANDINGS		LANDINGS											
MONTH		JANUARY						APRIL					
COUNTRY		GERMANY											
TONNAGE		500-900											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1958	5	-	-	5	-	-	-	-	-	-	-	-	-
1957	6	-	-	31	-	-	-	-	-	386	-	-	69.3
1956	7	-	-	547	-	-	73.0	-	-	275	-	-	74.7
1955	8	-	-	92	-	-	-	-	-	93	-	-	-
1954	9	-	-	11	-	-	-	-	-	29	-	-	-
1953	10	-	-	157	-	-	83.8	-	-	113	-	-	84.7
1952	11	-	-	37	-	-	-	-	-	4	-	-	-
1951	12	-	-	23	-	-	-	-	-	10	-	-	-
1950	13	-	-	44	-	-	-	-	-	40	-	-	-
1949	14	-	-	8	-	-	-	-	-	-	-	-	-
1948	15	-	-	6	-	-	-	-	-	4	-	-	-
1947	16	-	-	31	-	-	-	-	-	46	-	-	-
1946	17	-	-	5	-	-	-	-	-	-	-	-	-
1945	18	-	-	3	-	-	-	-	-	-	-	-	-
TOTAL ‰		-	-	1000						1000			
SERIAL NUMBERS		-	-	1,4,8						22			
NUMBER OF SAMPLES		-	-	3						1			
NUMBER OF FISH AGED		-	-	532						156			
MEAN AGE		-	-	-						-			
MEAN WEIGHT (KG)		-	-	-						-			
TOTAL WEIGHT LANDED (TONS)		-	-	192						129			
ESTIMATED NUMBER LANDED		-	-	60187						40906			
MESH SIZE (MM)		-	-	120						120			
RANGE OF DEPTHS (FM)		-	-	-						-			

TABLE 40 (CONT'D)

MONTH		MAY						NK					
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1959	4	-	-	-	-	-	-	-	-	4	-	-	-
1958	5	-	-	45	-	-	-	-	-	303	-	-	57.2
1957	6	-	-	252	-	-	66.4	-	-	166	-	-	65.1
1956	7	-	-	466	-	-	70.9	-	-	407	-	-	75.9
1955	8	-	-	54	-	-	-	-	-	38	-	-	-
1954	9	-	-	17	-	-	-	-	-	11	-	-	-
1953	10	-	-	73	-	-	-	-	-	37	-	-	-
1952	11	-	-	11	-	-	-	-	-	7	-	-	-
1951	12	-	-	15	-	-	-	-	-	4	-	-	-
1950	13	-	-	41	-	-	-	-	-	21	-	-	-
1949	14	-	-	1	-	-	-	-	-	-	-	-	-
1948	15	-	-	1	-	-	-	-	-	-	-	-	-
1947	16	-	-	12	-	-	-	-	-	1	-	-	-
1946	17	-	-	3	-	-	-	-	-	1	-	-	-
1945	18	-	-	4	-	-	-	-	-	-	-	-	-
1945 ¹⁾	>18 ¹⁾	-	-	5	-	-	-	-	-	-	-	-	-
TOTAL ‰		-	-	1000						1000			
SERIAL NUMBERS		-	-	30,33						45,48,50			
NUMBER OF SAMPLES		-	-	2						3			
NUMBER OF FISH AGED		-	-	423						587			
MEAN AGE		-	-	-						-			
MEAN WEIGHT (KG)		-	-	-						-			
TOTAL WEIGHT LANDED (TONS)		-	-	59						133			
ESTIMATED NUMBER LANDED		-	-	22375						55911			
MESH SIZE (MM)		-	-	120						120			
RANGE OF DEPTHS (FM)		-	-	-						-			

1) BEFORE 1945 AND GREATER THAN 18 (AGE)

TABLE 41

AGE FREQUENCIES - COD - 1963

(FREQUENCIES IN ‰)

AREA		EAST GREENLAND - DOHRN BANK											
GEAR		OTTER TRAWL (COMMERCIAL)											
CATCHES/LANDINGS		LANDINGS											
MONTH		JANUARY						APRIL					
COUNTRY		GERMANY											
TONNAGE		500-900											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1959	4	-	-	20	-	-	-	-	-	11	-	-	-
1958	5	-	-	91	-	-	-	-	-	43	-	-	-
1957	6	-	-	135	-	-	68.0	-	-	92	-	-	-
1956	7	-	-	256	-	-	77.4	-	-	493	-	-	76.7
1955	8	-	-	140	-	-	84.7	-	-	64	-	-	-
1954	9	-	-	10	-	-	-	-	-	16	-	-	-
1953	10	-	-	196	-	-	89.3	-	-	157	-	-	88.1
1952	11	-	-	54	-	-	-	-	-	53	-	-	-
1951	12	-	-	25	-	-	-	-	-	20	-	-	-
1950	13	-	-	56	-	-	-	-	-	31	-	-	-
1949	14	-	-	13	-	-	-	-	-	7	-	-	-
1948	15	-	-	-	-	-	-	-	-	2	-	-	-
1947	16	-	-	-	-	-	-	-	-	6	-	-	-
1945	18	-	-	4	-	-	-	-	-	5	-	-	-
TOTAL ‰		-	-	1000						1000			
SERIAL NUMBERS		-	-	7						15,25,27			
NUMBER OF SAMPLES		-	-	1						3			
NUMBER OF FISH AGED		-	-	214						493			
MEAN AGE		-	-	-						-			
MEAN WEIGHT (KG)		-	-	-						-			
TOTAL WEIGHT LANDED (TONS)		-	-	73						247			
ESTIMATED NUMBER LANDED		-	-	18263						68537			
MESH SIZE (MM)		-	-	120						120			
RANGE OF DEPTHS (FM)		-	-	-						-			
(CONT'D)													
AREA		EAST GREENLAND - DOHRN BANK											
GEAR		OTTER TRAWL (COMMERCIAL)											
CATCHES/LANDINGS		LANDINGS											
MONTH		JULY						NOVEMBER					
COUNTRY		GERMANY											
TONNAGE		500-900											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1959	4	-	-	30	-	-	-	-	-	31	-	-	-
1958	5	-	-	87	-	-	-	-	-	58	-	-	-
1957	6	-	-	142	-	-	74.8	-	-	135	-	-	70.2
1956	7	-	-	504	-	-	79.5	-	-	559	-	-	79.5
1955	8	-	-	58	-	-	-	-	-	88	-	-	-
1954	9	-	-	6	-	-	-	-	-	-	-	-	-
1953	10	-	-	107	-	-	92.5	-	-	87	-	-	-
1952	11	-	-	13	-	-	-	-	-	11	-	-	-
1951	12	-	-	17	-	-	-	-	-	4	-	-	-
1950	13	-	-	30	-	-	-	-	-	27	-	-	-
1945	18	-	-	6	-	-	-	-	-	-	-	-	-
TOTAL ‰		-	-	1000						1000			
SERIAL NUMBERS		-	-	40						54			
NUMBER OF SAMPLES		-	-	1						1			
NUMBER OF FISH AGED		-	-	184						166			
MEAN AGE		-	-	-						-			
MEAN WEIGHT (KG)		-	-	-						-			
TOTAL WEIGHT LANDED (TONS)		-	-	140						101			
ESTIMATED NUMBER LANDED		-	-	38226						26042			
MESH SIZE (MM)		-	-	120						120			
RANGE OF DEPTHS (FM)		-	-	-						-			

TABLE 42
(CONT'D)

AGE/LENGTH KEYS AND FREQUENCIES (COD) - 1963

DIVISION	MONTH	DENMARK (6)	GERMANY FED.REP.	ICELAND	NORWAY	POLAND	PORTUGAL	U.S.S.R.	U.K.	TOTAL
1NK	APRIL	-	-	-	1	-	-	-	-	1
	NK	3	-	-	-	-	-	-	-	3
2G	APRIL	-	-	-	-	-	-	1	-	1
2J	FEBRUARY	-	-	-	-	1	-	-	-	1
	APRIL	-	-	-	-	-	-	1	-	1
	MAY	-	-	-	-	-	-	1	-	1
	APR-MAY-JUNE	-	-	-	-	-	1	-	-	1
	JUL-AUG-SEPT	-	-	-	-	-	1	-	-	1
3K	FEBRUARY	-	-	-	-	1	-	-	-	1
	APRIL	-	-	1	-	-	-	-	-	1
	MAY	-	-	-	-	-	-	1	-	1
	JUL-AUG-SEPT	-	-	-	-	-	1	-	-	1
3L	JANUARY	-	-	-	-	1	-	-	-	1
	APR-MAY-JUNE	-	-	-	-	-	1	-	-	1
	JUL-AUG-SEPT	-	-	-	-	-	1	-	-	1
3M	MARCH	-	-	-	-	1	-	-	-	1
SOUTH- EAST GREENLAND	JANUARY	-	1	-	-	-	-	-	-	1
	APRIL	-	1	-	-	-	-	-	-	1
	MAY	-	1	-	-	-	-	-	-	1
	SEPT-OCT	-	1	-	-	-	-	-	-	1
EAST GREENLAND	JANUARY	-	1	-	-	-	-	-	-	1
	APRIL	-	1	-	-	-	-	-	-	1
	JULY	-	1	-	-	-	-	-	-	1
	NOVEMBER	-	1	-	-	-	-	-	-	1
TOTAL		32	25	3	4	4	6	14	4	92

TABLE 43

LENGTH FREQUENCIES - HADDOCK - 3N - 1963

(FREQUENCIES IN 0/00 - 2 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)	
CATCHES/LANDINGS	LANDINGS AFTER DISCARD	
MONTH	APRIL	MAY
COUNTRY	CANADA (NEWFOUNDLAND)	
TONNAGE	151-500	
32-33	-	13
34-35	3	4
36-37	6	34
38-39	66	86
40-41	116	172
42-43	231	206
44-45	163	189
46-47	141	99
48-49	113	86
50-51	81	47
52-53	44	13
54-55	12	21
56-57	9	13
58-59	6	-
60-61	6	4
62-63	3	9
64-65	-	4
TOTAL 0/00	1000	1000
SERIAL NUMBERS	-	-
NUMBER OF SAMPLES	1	1
NUMBER OF FISH MEASURED	320	233
MEAN LENGTH (CM)	45.13	44.02
MEAN WEIGHT (KG)	0.92	0.88
TOTAL WEIGHT LANDED (TONS)	61	62
ESTIMATED NUMBER LANDED	66105	70460
MESH SIZE (INCHES)	4 $\frac{1}{2}$	4 $\frac{1}{2}$
RANGE OF DEPTHS (FM)	90-105	73-85

1) MANILLA

TABLE 44

LENGTH FREQUENCIES - HADDOCK - 30 - 1963

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	OTTER TRAWL							
	(COMMERCIAL)							(EXPLORATORY)
CATCHES/LANDINGS	LANDINGS	LANDINGS AFTER DISCARD						CATCHES
MONTH	MAY	JANUARY	FEBRUARY	MARCH	APRIL	MAY	DECEMBER	APRIL
COUNTRY	CANADA (M)	CANADA (NEWFOUNDLAND)						U.S.S.R.
TONNAGE	151-500							1100
24-25	-	-	-	-	-	-	2	3
26-27	-	-	-	-	-	-	-	11
28-29	-	2	-	-	-	4	25	21
30-31	-	7	-	-	-	6	36	17
32-33	-	7	-	3	7	8	25	29
34-35	-	6	8	7	4	3	90	8
36-37	-	31	29	31	34	19	289	22
38-39	-	109	96	103	129	77	256	59
40-41	3	191	217	191	144	164	115	51
42-43	31	205	192	187	166	211	47	180
44-45	66	180	188	150	231	160	29	157
46-47	198	120	137	141	136	132	32	121
48-49	191	74	83	72	53	91	29	114
50-51	144	33	17	40	57	53	15	70
52-53	140	17	12	30	23	31	5	57
54-55	79	7	4	13	4	18	2	20
56-57	49	4	17	11	4	9	-	19
58-59	37	3	-	7	4	7	3	23
60-61	25	1	-	6	-	5	-	4
62-63	8	2	-	6	-	2	-	3
64-65	15	1	-	1	-	1	-	4
66-67	7	-	-	1	-	1	-	4
68-69	5	-	-	-	-	-	-	2
70-71	2	-	-	-	-	-	-	-
72-73	-	-	-	-	-	-	-	1
TOTAL ‰	1000	1000	1000	1000	1000	1000	1000	1000
SERIAL NUMBERS	44	-	-	-	-	-	-	-
NUMBER OF SAMPLES	1	9	1	3	1	7	2	4
NUMBER OF FISH MEASURED	354	3090	240	707	264	1998	591	1084
MEAN LENGTH (CM)	50.6	43.25	43.41	44.05	43.51	44.30	38.33	44.90
MEAN WEIGHT (KG)	1.25	0.87	0.88	0.87	0.79	0.90	0.57	-
TOTAL WEIGHT LANDED (TONS)	-	2714	1019	357	443	1160	522	-
ESTIMATED NUMBER LANDED	-	3116746	11644988	409151	560511	1292690	916619	-
MESH SIZE (INCHES)	4 5/8	4 1/2-5 1)	5 1)	4 1/2 1)	4 1/2 1)	4-4 1/2 2)	4 1/2 1)	1103)
RANGE OF DEPTHS (FM)	85	40-180	140-180	125-185	120-190	60-110	75-115	250-340

- 1) MANILLA
 2) MANILLA AND NYLON
 3) (MM)

TABLE 45

LENGTH FREQUENCIES - HADDOCK - 3Ps - 1963

(FREQUENCIES IN $\frac{0}{00}$ - 2 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)
CATCHES/LANDINGS	LANDINGS AFTER DISCARD
MONTH	MARCH
COUNTRY	CANADA (NEWFOUNDLAND)
TONNAGE	151-500
30-31	10
32-33	8
34-35	35
36-37	63
38-39	109
40-41	108
42-43	106
44-45	94
46-47	123
48-49	117
50-51	63
52-53	48
54-55	29
56-57	19
58-59	23
60-61	19
62-63	8
64-65	2
66-67	6
68-69	8
70-71	-
72-73	-
74-75	2
TOTAL $\frac{0}{00}$	1000
SERIAL NUMBERS	-
NUMBER OF SAMPLES	2
NUMBER OF FISH MEASURED	520
MEAN LENGTH (CM)	45.30
MEAN WEIGHT (KG)	1.03
TOTAL WEIGHT LANDED (TONS)	168
ESTIMATED NUMBER LANDED	163912
MESH SIZE (INCHES)	$4\frac{1}{2}$ MANILLA
RANGE OF DEPTHS (FM)	90-170

TABLE 46

LENGTH FREQUENCIES - HADDOCK - 3P - 1963

(FREQUENCIES IN 0/00 - 2 CM GROUPS)

GEAR	OTTER TRAWL (EXPLORATORY)
CATCHES/LANDINGS	CATCHES
MONTH	APRIL
COUNTRY	U. S. S. R.
TONNAGE	1100
30-31	5
32-33	5
34-35	10
36-37	15
38-39	38
40-41	30
42-43	132
44-45	106
46-47	147
48-49	172
50-51	58
52-53	91
54-55	43
56-57	46
58-59	41
60-61	18
62-63	15
64-65	8
66-67	8
68-69	3
70-71	3
72-73	-
74-75	3
76-77	-
78-79	3
TOTAL 0/00	1000
SERIAL NUMBERS	-
NUMBER OF SAMPLES	2
NUMBER OF FISH MEASURED	394
MEAN LENGTH (CM)	48.37
MEAN WEIGHT (KG)	-
TOTAL WEIGHT LANDED (TONS)	-
ESTIMATED NUMBER LANDED	-
MESH SIZE (MM)	110
RANGE OF DEPTHS (FM)	175-210

TABLE 47

LENGTH FREQUENCIES - HADDOCK - 4T - 1963

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)	
CATCHES/LANDINGS	LANDINGS	
MONTH	JULY	OCTOBER
COUNTRY	CANADA (MARITIMES)	
TONNAGE	26-50	51-150
38-39	2	3
40-41	18	7
42-43	29	13
44-45	54	28
46-47	81	59
48-49	92	102
50-51	121	113
52-53	114	145
54-55	110	151
56-57	101	102
58-59	85	100
60-61	65	75
62-63	43	51
64-65	31	25
66-67	22	13
68-69	4	7
70-71	11	3
72-73	13	1
74-75	2	1
76-77	-	-
78-79	2	-
TOTAL ‰	1000	999
SERIAL NUMBERS	45-46	47-49
NUMBER OF SAMPLES	2	3
NUMBER OF FISH MEASURED	447	683
MEAN LENGTH (CM)	53.8	54.1
MEAN WEIGHT (KG)	1.60	1.94
TOTAL WEIGHT LANDED (TONS)	-	-
ESTIMATED NUMBER LANDED	-	-
MESH SIZE (INCHES)	4½	4½-4¾
RANGE OF DEPTHS (FM)	12-50	14-30

TABLE 48

LENGTH FREQUENCIES - HADDOCK - 4VN - 1963

(FREQUENCIES IN % - 2 CM GROUPS)

GEAR	TRAP (COMMERCIAL)
CATCHES/LANDINGS	LANDINGS
MONTH	JUNE
COUNTRY	CANADA (MARITIMES)
TONNAGE	NK
44-45	5
46-47	13
48-49	54
50-51	82
52-53	125
54-55	136
56-57	141
58-59	148
60-61	92
62-63	61
64-65	41
66-67	43
68-69	18
70-71	10
72-73	13
74-75	5
76-77	5
78-79	3
80-81	-
82-83	5
TOTAL %	1000
SERIAL NUMBERS	50
NUMBER OF SAMPLES	1
NUMBER OF FISH MEASURED	391
MEAN LENGTH (CM)	57.4
MEAN WEIGHT (KG)	2.23
TOTAL WEIGHT LANDED (TONS)	-
ESTIMATED NUMBER LANDED	-
MESH SIZE	-
RANGE OF DEPTHS (FM)	-

TABLE 49

LENGTH FREQUENCIES - HADDOCK - 4Vs - 1969

(FREQUENCIES IN $\%$ - 2 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)
CATCHES/LANDINGS	LANDINGS
MONTH	MAY
COUNTRY	CANADA (MARITIMES)
TONNAGE	151-500
36-37	2
38-39	21
40-41	36
42-43	72
44-45	107
46-47	171
48-49	169
50-51	128
52-53	111
54-55	69
56-57	56
58-59	34
60-61	17
62-63	4
64-65	-
66-67	-
68-69	1
70-71	2
TOTAL $\%$	1000
SERIAL NUMBERS	51-52
NUMBER OF SAMPLES	2
NUMBER OF FISH MEASURED	570
MEAN LENGTH (CM)	49.0
MEAN WEIGHT (KG)	1.30
TOTAL WEIGHT LANDED (TONS)	-
ESTIMATED NUMBER LANDED	-
MESH SIZE (INCHES)	4 $\frac{1}{2}$
RANGE OF DEPTHS (FM)	80-100

TABLE 50

LENGTH FREQUENCIES - HADDOCK - 4W - 1963

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	OTTER TRAWL									LONG LINE
	(COMMERCIAL)									
CATCHES/LANDINGS	LANDINGS									
MONTH	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	APRIL	
COUNTRY	CANADA (MARITIMES)									
TONNAGE	151-500		26-50		151-500		26-50			
32-33	-	-	-	-	-	-	5	-	-	
34-35	-	-	-	-	-	-	3	-	-	
36-37	-	-	-	-	-	-	2	-	-	
38-39	8	11	1	14	-	-	20	3	5	
40-41	21	16	2	18	8	6	68	13	10	
42-43	82	44	4	51	71	19	79	54	52	
44-45	89	76	31	235	129	102	113	121	31	
46-47	193	137	49	211	205	177	153	181	62	
48-49	111	156	82	184	207	195	112	166	98	
50-51	84	159	188	132	145	191	84	141	103	
52-53	99	122	170	46	86	121	92	104	129	
54-55	108	95	142	38	55	76	98	83	145	
56-57	84	62	119	26	18	40	57	47	72	
58-59	43	49	47	20	27	43	40	35	103	
60-61	31	30	45	8	22	17	36	18	72	
62-63	21	21	49	8	16	10	19	13	36	
64-65	14	11	26	4	3	3	12	9	41	
66-67	8	4	19	2	3	-	4	11	15	
68-69	4	4	17	-	1	-	4	-	10	
70-71	-	2	9	2	3	-	-	-	5	
72-73	-	-	2	-	2	-	-	-	10	
74-75	-	-	5	-	-	-	-	-	-	
TOTAL ‰	1000	999	1001	999	1001	1000	1001	999	999	
SERIAL NUMBERS	53-56	57-64	73-74	65	66-67	68	69-70	71-72	75	
NUMBER OF SAMPLES	4	8	2	1	2	1	2	2	1	
NUMBER OF FISH MEASURED	1274	2638	535	310	622	250	583	634	194	
MEAN LENGTH (CM)	50.4	50.8	54.2	48.0	49.2	50.0	49.4	49.9	53.8	
MEAN WEIGHT (KG)	1.43	1.44	1.56	1.16	1.23	1.37	1.33	1.32	1.68	
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-	-	-	-	
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-	
MESH SIZE (INCHES)	4½	4½-5	4½	4 ¾	4½-4 5/8	4 5/8	4 5/8	4½-4 ¾	6/0¹)	
RANGE OF DEPTHS (FM)	62-85	30-95	60-80	20-40	20-45	23-30	18-75	26-33	55	

1) HOOK SIZE - (NUMBER)

TABLE 51

LENGTH FREQUENCIES - HADDOCK - 4X - 1963

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)						
	LANDINGS						
CATCHES/LANDINGS	MARCH	APRIL	APRIL	APRIL	MAY	MAY	JUNE
MONTH	U. S.	CAN(M)	U. S.	CAN(M)	CAN(M)	U. S.	CAN(M)
COUNTRY	U. S.	CAN(M)	U. S.	CAN(M)	CAN(M)	U. S.	CAN(M)
TONNAGE	34-440	51-150	34-440	151-500	51-150	34-440	51-150
36-37	-	-	5	15	-	20	5
38-39	13	32	18	15	17	47	5
40-41	35	71	45	45	60	75	23
42-43	109	97	92	57	95	95	65
44-45	160	97	121	90	95	95	116
46-47	136	136	122	69	78	98	134
48-49	115	117	130	155	43	133	125
50-51	101	123	126	149	86	103	83
52-53	108	117	102	155	95	97	106
54-55	66	58	70	59	60	100	125
56-57	59	45	55	64	78	61	116
58-59	31	39	35	43	43	32	9
60-61	36	52	38	48	34	16	28
62-63	12	-	23	16	52	6	19
64-65	7	7	10	16	95	9	18
66-67	8	-	5	-	34	3	14
68-69	2	-	2	-	-	3	5
70-71	-	7	-	5	26	3	5
72-73	1	-	1	-	9	3	-
74-75	-	-	-	-	-	-	-
76-77	1	-	-	-	-	-	-
TOTAL ‰	1000	998	1000	1001	1000	999	1001
SERIAL NUMBERS	-	98	-	94	99	-	100
NUMBER OF SAMPLES	6	1	8	1	1	2	1
NUMBER OF FISH MEASURED	589	154	861	250	116	204	216
MEAN LENGTH (CM)	49.29	49.1	49.57	50.3	52.8	48.76	50.8
MEAN WEIGHT (KG)	1.35	1.47	1.27	1.43	1.97	1.22	1.43
TOTAL WEIGHT LANDED (TONS)	491	-	2375	-	-	517	-
ESTIMATED NUMBER LANDED ¹⁾	3648	-	18709	-	-	4208	-
MESH SIZE (INCHES)	4½	4½	4½	4½	4½	4½	4 3/8
RANGE OF DEPTHS (FM)	35-95	-	30-70	-	58	25-65	50-80

1) FIGURES IN HUNDREDS

TABLE 51
(CONT'D)

LENGTH FREQUENCIES - HADDOCK - 4X - 1963

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)							
	LANDINGS							
CATCHES/LANDINGS	JULY	JULY	AUGUST	AUGUST	OCTOBER	OCTOBER	NOVEMBER	DECEMBER
MONTH	CANADA (MARITIMES)		U.S.	U.S.	CAN (M)	U.S.	CAN (M)	U.S.
COUNTRY	CANADA (MARITIMES)		U.S.	U.S.	CAN (M)	U.S.	CAN (M)	U.S.
TONNAGE	0-25	151-500	51-150	34-440	151-500	34-440	26-50	34-440
30-31	2	5	-	-	-	6	-	-
32-33	36	-	-	-	-	25	10	-
34-35	76	23	-	-	-	35	37	-
36-37	106	18	12	7	15	69	71	-
38-39	108	41	23	22	52	101	47	72
40-41	160	87	75	155	108	104	61	116
42-43	159	132	104	133	119	89	59	87
44-45	142	155	150	163	179	71	88	159
46-47	112	142	116	111	133	97	132	130
48-49	55	119	127	93	108	132	110	141
50-51	16	91	133	78	61	109	109	90
52-53	14	59	98	68	60	88	83	100
54-55	8	55	64	57	44	44	53	55
56-57	3	9	29	52	37	22	39	14
58-59	1	23	29	39	34	7	32	17
60-61	-	23	35	16	18	-	17	8
62-63	1	5	-	4	16	-	14	6
64-65	-	5	-	2	8	-	17	6
66-67	-	5	-	-	1	-	8	-
68-69	-	5	6	-	5	-	7	-
70-71	-	-	-	-	1	-	2	-
72-73	-	-	-	-	-	-	3	-
74-75	-	-	-	-	1	-	-	-
TOTAL ‰	999	1002	1001	1000	1000	999	999	1001
SERIAL NUMBERS	106-110	95	101	-	96-97	-	103-105	-
NUMBER OF SAMPLES	5	1	1	2	2	4	3	2
NUMBER OF FISH MEASURED	1479	219	173	211	622	427	590	150
MEAN LENGTH (CM)	14.6	46.7	47.9	47.14	47.2	50.86	47.6	46.99
MEAN WEIGHT (KG)	0.83	1.03	1.34	1.11	1.22	1.42	1.25	1.13
TOTAL WEIGHT LANDED (TONS)	-	-	-	641	-	630	-	110
ESTIMATED NUMBER LANDED ¹⁾	-	-	-	5806	-	4442	-	967
MESH SIZE (INCHES)	4½	4½	4½	4½	4½	4½	4½	4½
RANGE OF DEPTHS (FM)	-	40-90	65-80	40-50	-	49-110	40-50	108-110

1) FIGURES IN HUNDREDS

TABLE 51
(CONT'D)

LENGTH FREQUENCIES - HADDOCK - 4X - 1963

(FREQUENCIES IN $\%$ - 2 CM GROUPS)

GEAR	OTTER TRAWL	LONG LINE				
	(RESEARCH)	(COMMERCIAL)				
CATCHES/LANDINGS	CATCHES	LANDINGS				
MONTH	NOVEMBER	JANUARY	APRIL	APRIL	JUNE	SEPTEMBER
COUNTRY	CANADA (MARITIMES)					
TONNAGE	26-50	26-50	51-150	51-150	0-25	0-25
30-31	-	-	-	-	-	3
32-33	5	-	-	-	-	5
34-35	-	-	1	-	1	8
36-37	5	-	7	-	2	16
38-39	-	-	12	-	20	56
40-41	-	19	13	-	53	94
42-43	5	38	21	-	70	154
44-45	5	75	36	13	115	186
46-47	-	56	60	49	122	148
48-49	5	103	78	84	121	89
50-51	33	66	119	160	156	75
52-53	43	150	134	142	116	49
54-55	87	94	103	124	98	32
56-57	109	94	133	84	61	24
58-59	103	47	83	84	33	30
60-61	103	28	80	80	15	11
62-63	98	75	59	71	7	11
64-65	71	42	21	62	5	3
66-67	82	28	23	40	2	5
68-69	87	9	12	4	1	-
70-71	65	38	2	4	2	-
72-73	49	28	1	-	1	-
74-75	16	-	2	-	-	-
76-77	22	9	-	-	-	-
78-79	5	-	1	-	-	-
TOTAL $\%$	998	999	1001	1001	1001	999
SERIAL NUMBERS	111	84	85-88	89	90-91	92-93
NUMBER OF SAMPLES	1	1	4	1	2	2
NUMBER OF FISH MEASURED	184	213	1112	225	1291	371
MEAN LENGTH (CM)	61.8	54.8	54.0	55.3	49.4	46.2
MEAN WEIGHT (KG)	-	2.14	1.84	1.94	1.60	1.17
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH OR HOOK SIZE	1)	No.6/0	No.6/0	No.16	No.16	No.6/0
RANGE OF DEPTHS (FM)	20-30	40	50-60	45-55	40-50	40-50

1) ONE INCH LINER

TABLE 52

LENGTH FREQUENCIES - HADDOCK - 5Y - 1963

(FREQUENCIES IN 0/00 - 2 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)							
CATCHES/LANDINGS	LANDINGS							
MONTH	FEBRUARY	MARCH	APRIL	APRIL	MAY	JUNE	JUNE	JULY
COUNTRY	UNITED STATES		CAN(M)	UNITED STATES		CAN(M)	UNITED STATES	
TONNAGE	0-215		51-150	0-215		26-50	0-215	
32-33	-	-	-	-	-	7	-	-
34-35	-	-	-	-	-	13	-	-
36-37	-	-	19	-	7	45	-	-
38-39	-	-	19	-	21	19	-	-
40-41	10	19	49	23	59	45	32	12
42-43	66	58	37	46	73	78	51	37
44-45	80	126	123	93	127	156	96	75
46-47	78	138	111	108	99	143	116	109
48-49	113	147	160	93	84	149	121	147
50-51	177	108	142	70	83	123	181	85
52-53	105	86	86	98	80	58	89	98
54-55	102	87	80	103	78	52	98	85
56-57	53	59	19	66	72	39	75	68
58-59	42	61	68	72	54	32	64	54
60-61	29	36	25	54	68	26	27	37
62-63	36	29	43	72	36	-	11	47
64-65	31	17	12	12	24	7	5	38
66-67	30	10	6	24	22	7	11	47
68-69	16	8	-	24	4	-	-	17
70-71	17	7	-	18	4	-	11	33
72-73	7	-	-	6	2	-	5	12
74-75	3	3	-	6	2	-	-	-
76-77	2	-	-	12	-	-	5	-
78-79	1	-	-	-	-	-	-	-
80-81	2	1	-	-	-	-	-	-
TOTAL 0/00	1000	1000	999	1000	999	999	998	1001
SERIAL NUMBERS	-	-	112	-	-	113	-	-
NUMBER OF SAMPLES	8	8	1	2	8	1	2	4
NUMBER OF FISH MEASURED	600	651	162	150	717	154	170	344
MEAN LENGTH (CM)	52.74	51.10	49.9	53.60	51.03	47.7	51.08	53.74
MEAN WEIGHT (KG)	1.72	1.59	1.40	1.54	1.34	1.24	1.31	1.62
TOTAL WEIGHT LANDED (TONS)	326	669	-	230	157	-	187	326
ESTIMATED NUMBER LANDED ¹⁾	1893	4211	-	1497	1175	-	1423	2005
MESH SIZE (INCHES)	4½	4½	4 3/8	4½	4½	4 3/8	4½	4½
RANGE OF DEPTHS (FM)	40-80	50-100	-	60-80	30-120	30-50	86-110	55-120

1)

FIGURES IN HUNDREDS

TABLE 52
(CONT'D)

LENGTH FREQUENCIES - HADDOCK - 5Y - 1963

(FREQUENCIES IN $\frac{0}{00}$ - 2 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)						
	CATCHES/LANDINGS						
	LANDINGS						
	MONTH	AUGUST	AUGUST	SEPTEMBER	SEPTEMBER	OCTOBER	NOVEMBER
COUNTRY	CAN(M)	U.S.	CAN(M)	UNITED STATES		CAN(M)	U.S.
TONNAGE	51-150	0-215	51-150	0-215		51-150	0-215
32-33	-	-	2	-	-	3	-
34-35	3	-	2	-	-	12	-
36-37	7	-	14	-	1	27	1
38-39	48	-	20	4	9	48	1
40-41	65	4	20	9	19	51	22
42-43	141	36	63	26	47	75	47
44-45	148	62	115	68	88	63	64
46-47	165	111	138	130	133	113	96
48-49	172	106	185	140	143	128	96
50-51	93	139	152	127	109	149	164
52-53	76	103	124	110	105	134	115
54-55	21	127	48	96	72	87	116
56-57	34	100	41	65	73	48	76
58-59	17	49	32	63	64	30	84
60-61	3	42	23	73	47	18	47
62-63	7	60	9	30	34	9	25
64-65	-	26	5	24	21	3	21
66-67	-	11	7	15	11	-	13
68-69	-	12	-	12	9	3	8
70-71	-	9	-	2	11	-	3
72-73	-	2	-	5	3	-	-
74-75	-	-	-	-	-	-	1
TOTAL $\frac{0}{00}$	1000	999	1000	999	999	1001	1000
SERIAL NUMBERS	114	-	115-116	-	-	117-118	-
NUMBER OF SAMPLES	1	4	2	12	8	2	8
NUMBER OF FISH MEASURED	291	310	442	1281	744	335	746
MEAN LENGTH (CM)	46.8	52.93	49.1	52.48	51.71	48.6	52.22
MEAN WEIGHT (KG)	1.22	1.54	1.29	1.50	1.52	1.36	1.55
TOTAL WEIGHT LANDED (TONS)	-	310	-	480	634	-	866
ESTIMATED NUMBER LANDED ¹⁾	-	2014	-	3200	4146	-	5584
MESH SIZE (INCHES)	4 3/8	4 1/2	4 3/8-4 1/2	4 1/2	4 1/2	4 3/8	4 1/2
RANGE OF DEPTHS (FM)	34-60	65-100	30-65	45-110	50-110	30-70	55-105

1) FIGURES IN HUNDREDS

TABLE 53

LENGTH FREQUENCIES - HADDOCK - 52 - 1963

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)							
	LANDINGS							
CATCHES/LANDINGS	JANUARY		FEBRUARY		MARCH		MAY	
MONTH	UNITED STATES		CAN(M)		UNITED STATES		JUNE	
COUNTRY	UNITED STATES		CAN(M)		UNITED STATES		U.S.	
TONNAGE	0-499		151-500		0-499		151-500	
34-35	-	-	-	-	-	-	1	-
36-37	1	2	-	-	1	5	9	-
38-39	9	13	4	4	16	24	3	31
40-41	39	25	13	11	48	46	12	61
42-43	60	56	28	21	74	52	39	80
44-45	121	84	73	59	116	84	59	87
46-47	119	100	117	95	118	94	105	77
48-49	131	119	157	141	140	104	132	81
50-51	115	125	173	150	112	102	150	101
52-53	82	89	150	137	82	77	113	89
54-55	76	76	106	86	60	87	110	97
56-57	48	71	76	85	48	67	79	86
58-59	37	58	40	66	38	53	82	64
60-61	34	38	24	46	28	48	37	42
62-63	31	37	19	31	19	36	11	32
64-65	22	27	6	19	21	29	26	20
66-67	24	20	5	18	18	25	16	18
68-69	13	21	4	12	16	20	11	12
70-71	14	13	3	6	15	11	5	4
72-73	8	12	1	6	9	12	10	4
74-75	7	7	-	3	9	9	-	-
76-77	6	2	1	2	5	5	-	3
78-79	3	1	-	1	2	4	-	1
80-81	-	2	-	-	1	-	-	-
82-83	-	1	-	-	-	-	-	-
TOTAL ‰	1000	999	1000	1000	1000	999	1000	999
SERIAL NUMBERS	-	-	76-79	-	-	-	80	-
NUMBER OF SAMPLES	21	25	4	26	20	21	1	21
NUMBER OF FISH MEASURED	2163	2524	1087	2527	1982	2157	240	2207
MEAN LENGTH (CM)	51.63	52.62	51.2	52.78	51.05	52.46	52.4	51.25
MEAN WEIGHT (KG)	1.58	1.67	1.51	1.65	1.32	1.43	1.65	1.31
TOTAL WEIGHT LANDED (TONS)	3002	3678	-	5862	4715	4673	-	4374
ESTIMATED NUMBER LANDED ¹⁾	18942	21966	-	35596	35613	32762	-	33342
MESH SIZE (INCHES)	4½	4½	4 5/8-4 7/8	4½	4½	4½	4 5/8	4½
RANGE OF DEPTHS (FM)	25-140	36-145	40-100	27-120	22-110	15-120	45	25-110

1) FIGURES IN HUNDREDS

TABLE 53
(CONT'D)

LENGTH FREQUENCIES - HADDOCK - 52 - 1963

(FREQUENCIES IN 0/00 - 2 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)							
	LANDINGS							
CATCHES/LANDINGS	JULY		AUGUST	SEPTEMBER	OCTOBER		NOVEMBER	DECEMBER
MONTH	CAN(M)		UNITED STATES		CAN(M)		UNITED STATES	
COUNTRY	151-500		0-499		151-500		0-499	
TONNAGE	151-500		0-499		151-500		0-499	
34-35	-	1	1	1	-	1	8	-
36-37	-	6	6	5	-	5	34	24
38-39	3	13	17	12	28	15	41	44
40-41	21	40	44	30	64	24	43	48
42-43	47	56	74	43	102	50	54	44
44-45	94	81	85	76	151	75	58	40
46-47	85	96	104	108	170	98	74	48
48-49	105	120	104	97	120	112	88	60
50-51	163	114	119	106	88	119	93	67
52-53	123	114	124	107	88	100	98	77
54-55	87	86	123	107	52	82	91	78
56-57	82	82	85	90	40	90	90	94
58-59	38	52	50	68	31	74	60	84
60-61	65	45	32	42	24	63	47	77
62-63	11	26	16	35	16	35	37	61
64-65	16	14	7	21	12	23	29	36
66-67	27	18	3	15	7	16	18	26
68-69	5	11	4	13	-	5	9	31
70-71	11	9	2	7	4	5	11	16
72-73	11	6	1	7	-	3	7	21
74-75	-	7	1	5	-	1	7	9
76-77	5	3	-	4	4	1	2	8
78-79	-	1	-	2	-	1	-	5
80-81	-	-	-	-	-	1	-	1
82-83	-	-	-	1	-	-	-	1
TOTAL 0/00	999	1001	1002	1002	1001	999	999	1000
SERIAL NUMBERS	81	-	-	-	82-83	-	-	-
NUMBER OF SAMPLES	1	19	21	21	2	19	20	19
NUMBER OF FISH MEASURED	237	1966	2222	2104	470	1915	2065	2012
MEAN LENGTH (CM)	52.2	51.84	50.49	52.47	48.7	52.22	51.69	54.32
MEAN WEIGHT (KG)	1.69	1.49	1.36	1.54	1.47	1.58	1.58	1.85
TOTAL WEIGHT LANDED (TONS)	-	3872	4158	3283	-	3297	1487	1725
ESTIMATED NUMBER LANDED ¹⁾	-	25992	30662	21270	-	20784	9422	9310
MESH SIZE (INCHES)	4 5/8	4 1/2	4 1/2	4 1/2	4 5/8	4 1/2	4 1/2	4 1/2
RANGE OF DEPTHS (FM)	40	25-140	14-130	22-140	40	18-130	20-130	25-130

1) FIGURES IN HUNDREDS

TABLE 54

AGE FREQUENCIES - HADDOCK - 30 - 1963

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (EXPLORATORY)					
CATCHES/LANDINGS		CATCHES					
MONTH		APRIL					
COUNTRY		U. S. S. R.					
TONNAGE		1100					
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH		
		‰	‰	TOT.	‰	‰	TOT.
1961	2	-	-	17	-	-	32.95
1960	3	-	-	3	-	-	36.55
1959	4	-	-	77	-	-	40.21
1958	5	-	-	77	-	-	45.51
1957	6	-	-	63	-	-	43.61
1956	7	-	-	273	-	-	45.45
1955	8	-	-	417	-	-	47.31
1954	9	-	-	47	-	-	50.55
1953	10	-	-	7	-	-	55.55
1952	11	-	-	13	-	-	55.05
1951	12	-	-	3	-	-	52.55
1950	13	-	-	-	-	-	-
1949	14	-	-	3	-	-	64.55
TOTAL ‰		-	-	1000			
SERIAL NUMBERS		-	-	-			
NUMBER OF SAMPLES		-	-	1			
NUMBER OF FISH AGED		-	-	300			
MEAN AGE		-	-	7.08			
MEAN WEIGHT (KG)		-	-	0.951			
TOTAL WEIGHT LANDED (TONS)		-	-	-			
ESTIMATED NUMBER LANDED		-	-	-			
MESH SIZE (MM)		-	-	110			
RANGE OF DEPTHS (FM)		-	-	250-340			

TABLE 55

AGE FREQUENCIES - HADDOCK - 3P - 1963

(FREQUENCIES IN $\frac{0}{00}$)

GEAR		OTTER TRAWL (EXPLORATORY)					
CATCHES/LANDINGS		CATCHES					
MONTH		APRIL					
COUNTRY		U. S. S. R.					
TONNAGE		1100					
YEAR-CLASS	AGE	$\frac{0}{00}$ FREQUENCY			MEAN LENGTH		
		$\frac{00}{00}$	$\frac{00}{00}$	TOT.	$\frac{00}{00}$	$\frac{00}{00}$	TOT.
1961	2	-	-	7	-	-	30.55
1960	3	-	-	13	-	-	36.05
1959	4	-	-	80	-	-	41.21
1958	5	-	-	537	-	-	45.59
1957	6	-	-	103	-	-	48.55
1956	7	-	-	163	-	-	52.75
1955	8	-	-	64	-	-	59.75
1954	9	-	-	10	-	-	59.15
1953	10	-	-	3	-	-	62.55
1952	11	-	-	7	-	-	60.55
1951	12	-	-	3	-	-	60.55
1950	13	-	-	7	-	-	61.55
1949	14	-	-	3	-	-	70.55
TOTAL $\frac{0}{00}$		-	-	1000	/		
SERIAL NUMBERS		-	-	-			
NUMBER OF SAMPLES		-	-	1			
NUMBER OF FISH AGED		-	-	300			
MEAN AGE		-	-	5.70			
MEAN WEIGHT (KG)		-	-	1.110			
TOTAL WEIGHT LANDED (TONS)		-	-	-			
ESTIMATED NUMBER LANDED		-	-	-			
MESH SIZE (MM)		-	-	110			
RANGE OF DEPTHS (FM)		-	-	175-210			

TABLE 56

AGE FREQUENCIES - HADDOCK - 4X - 1963

(FREQUENCIES IN 0/00)

GEAR		OTTER TRAWL (COMMERCIAL)											
CATCHES/LANDINGS		LANDINGS											
MONTH		JANUARY-MARCH						APRIL-JUNE					
COUNTRY		UNITED STATES											
TONNAGE		34-440											
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	3	-	-	25	-	-	44.91	-	-	14	-	-	42.88
1958	4	-	-	229	-	-	45.10	-	-	267	-	-	44.17
1957	5	-	-	387	-	-	49.37	-	-	296	-	-	48.32
1956	6	-	-	176	-	-	49.88	-	-	171	-	-	50.70
1955	7	-	-	103	-	-	51.48	-	-	170	-	-	52.47
1954	8	-	-	30	-	-	58.18	-	-	57	-	-	55.81
1953	9	-	-	26	-	-	59.03	-	-	43	-	-	56.63
1952	10	-	-	15	-	-	56.45	-	-	18	-	-	60.46
1951	11	-	-	9	-	-	61.67	-	-	14	-	-	60.12
1950	12	-	-	-	-	-	72.50	-	-	7	-	-	59.65
1949	13+	-	-	1	-	-	64.50	-	-	4	-	-	63.58
TOTAL 0/00		-	-	1001	-	-	-	-	-	1001	-	-	-
SERIAL NUMBERS		-	-	-	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES		-	-	6	-	-	-	-	-	12	-	-	-
NUMBER OF FISH AGED		-	-	152	-	-	-	-	-	986	-	-	-
MEAN AGE		-	-	5.44	-	-	-	-	-	5.82	-	-	-
MEAN WEIGHT (KG)		-	-	1.35	-	-	-	-	-	1.27	-	-	-
TOTAL WEIGHT LANDED (TONS)		-	-	914	-	-	-	-	-	3522	-	-	-
ESTIMATED NUMBER LANDED ¹⁾		-	-	6755	-	-	-	-	-	27798	-	-	-
MESH SIZE (INCHES)		-	-	4.5	-	-	-	-	-	4.5	-	-	-
RANGE OF DEPTHS (FM)		-	-	35-85	-	-	-	-	-	25-70	-	-	-

(CONT'D)

GEAR		OTTER TRAWL (COMMERCIAL)											
CATCHES/LANDINGS		LANDINGS											
MONTH		JULY-SEPTEMBER						OCTOBER-DECEMBER					
COUNTRY		UNITED STATES											
TONNAGE		34-440											
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	2	-	-	1	-	-	38.50	-	-	88	-	-	40.83
1959	3	-	-	46	-	-	42.41	-	-	151	-	-	44.94
1958	4	-	-	445	-	-	45.30	-	-	525	-	-	51.16
1957	5	-	-	230	-	-	49.44	-	-	105	-	-	55.30
1956	6	-	-	99	-	-	53.73	-	-	41	-	-	57.20
1955	7	-	-	87	-	-	55.31	-	-	26	-	-	58.37
1954	8	-	-	42	-	-	56.46	-	-	24	-	-	58.98
1953	9	-	-	27	-	-	58.66	-	-	23	-	-	57.84
1952	10	-	-	4	-	-	66.03	-	-	8	-	-	59.76
1951	11	-	-	11	-	-	59.76	-	-	3	-	-	63.77
1950	12	-	-	4	-	-	64.66	-	-	2	-	-	62.02
1949	13+	-	-	3	-	-	68.50	-	-	3	-	-	63.21
TOTAL 0/00		-	-	999	-	-	-	-	-	999	-	-	-
SERIAL NUMBERS		-	-	-	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES		-	-	5	-	-	-	-	-	6	-	-	-
NUMBER OF FISH AGED		-	-	560	-	-	-	-	-	567	-	-	-
MEAN AGE		-	-	5.10	-	-	-	-	-	4.26	-	-	-
MEAN WEIGHT (KG)		-	-	1.14	-	-	-	-	-	1.36	-	-	-
TOTAL WEIGHT LANDED (TONS)		-	-	1677	-	-	-	-	-	1096	-	-	-
ESTIMATED NUMBER LANDED ¹⁾		-	-	14716	-	-	-	-	-	8035	-	-	-
MESH SIZE (INCHES)		-	-	4.5	-	-	-	-	-	4.5	-	-	-
RANGE OF DEPTHS (FM)		-	-	40-110	-	-	-	-	-	49-110	-	-	-

1) FIGURES IN HUNDREDS

TABLE 57

AGE FREQUENCIES - HADDOCK - 5Y - 1963

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (COMMERCIAL)													
CATCHES/LANDINGS		LANDINGS													
MONTH		JANUARY-MARCH						APRIL-JUNE							
COUNTRY		UNITED STATES													
TONNAGE		0-215													
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH				
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.		
1960	3	-	-	85	-	-	44.34	-	-	120	-	-	44.83		
1959	4	-	-	394	-	-	47.65	-	-	357	-	-	47.94		
1958	5	-	-	301	-	-	51.41	-	-	263	-	-	52.00		
1957	6	-	-	113	-	-	56.21	-	-	113	-	-	56.19		
1956	7	-	-	63	-	-	62.33	-	-	80	-	-	62.24		
1955	8	-	-	24	-	-	62.68	-	-	36	-	-	62.75		
1954	9+	-	-	20	-	-	68.78	-	-	30	-	-	65.97		
TOTAL ‰		-	-	1000	/			-	-	999	/				
SERIAL NUMBERS		-	-	-				-	-	-				-	-
NUMBER OF SAMPLES		-	-	8				-	-	-				-	12
NUMBER OF FISH AGED		-	-	288				-	-	-				-	203
MEAN AGE		-	-	4.83				-	-	-				-	4.90
MEAN WEIGHT (KG)		-	-	1.60				-	-	-				-	1.39
TOTAL WEIGHT LANDED (TONS)		-	-	1205				-	-	-				-	574
ESTIMATED NUMBER LANDED ¹⁾		-	-	7554				-	-	-				-	4120
MESH SIZE (INCHES)		-	-	4.5				-	-	-				-	4.5
RANGE OF DEPTHS (FM)		-	-	40-100				-	-	-				-	30-120
(CONT'D)															
GEAR		OTTER TRAWL (COMMERCIAL)													
CATCHES/LANDINGS		LANDINGS													
MONTH		JULY-SEPTEMBER						OCTOBER-DECEMBER							
COUNTRY		UNITED STATES													
TONNAGE		0-215													
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH				
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.		
1961	2	-	-	9	-	-	41.38	-	-	11	-	-	40.50		
1960	3	-	-	153	-	-	47.35	-	-	231	-	-	46.96		
1959	4	-	-	469	-	-	50.79	-	-	460	-	-	50.47		
1958	5	-	-	212	-	-	55.51	-	-	154	-	-	56.50		
1957	6	-	-	62	-	-	60.78	-	-	66	-	-	58.85		
1956	7	-	-	54	-	-	63.32	-	-	52	-	-	60.09		
1955	8	-	-	28	-	-	66.55	-	-	14	-	-	64.84		
1954	9+	-	-	13	-	-	66.22	-	-	12	-	-	62.88		
TOTAL ‰		-	-	1000	/			-	-	1000	/				
SERIAL NUMBERS		-	-	-				-	-	-				-	-
NUMBER OF SAMPLES		-	-	22				-	-	-				-	12
NUMBER OF FISH AGED		-	-	480				-	-	-				-	278
MEAN AGE		-	-	4.50				-	-	-				-	4.30
MEAN WEIGHT (KG)		-	-	1.55				-	-	-				-	1.54
TOTAL WEIGHT LANDED (TONS)		-	-	1116				-	-	-				-	1847
ESTIMATED NUMBER LANDED ¹⁾		-	-	7180				-	-	-				-	11986
MESH SIZE (INCHES)		-	-	4.5				-	-	-				-	4.5
RANGE OF DEPTHS (FM)		-	-	35-120				-	-	-				-	50-110

1) FIGURES IN HUNDREDS

TABLE 58

AGE FREQUENCIES - HADDOCK - 5Z - 1963

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (COMMERCIAL)											
CATCHES/LANDINGS		LANDINGS											
MONTH		JANUARY-MARCH						APRIL-JUNE					
COUNTRY		UNITED STATES											
TONNAGE		15-145											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1962	1	-	-	1	-	-	42.50	-	-	-	-	-	-
1961	2	-	-	80	-	-	45.06	-	-	100	-	-	41.56
1960	3	-	-	220	-	-	47.53	-	-	187	-	-	45.99
1959	4	-	-	309	-	-	51.26	-	-	305	-	-	50.13
1958	5	-	-	299	-	-	54.26	-	-	240	-	-	53.58
1957	6	-	-	72	-	-	60.45	-	-	57	-	-	59.36
1956	7	-	-	37	-	-	62.52	-	-	49	-	-	62.83
1955	8	-	-	21	-	-	65.97	-	-	20	-	-	66.88
1954	9+	-	-	21	-	-	71.42	-	-	42	-	-	68.54
TOTAL ‰		-	-	1000	/			-	-	1000	/		
SERIAL NUMBERS		-	-	-									
NUMBER OF SAMPLES		-	-	70									
NUMBER OF FISH AGED		-	-	1177									
MEAN AGE		-	-	4.30									
MEAN WEIGHT (KG)		-	-	1.64									
TOTAL WEIGHT LANDED (TONS)		-	-	12542									
ESTIMATED NUMBER LANDED ¹⁾		-	-	76504									
MESH SIZE (INCHES)		-	-	4.5									
RANGE OF DEPTHS (FM)		-	-	25-145									
(CONT'D)													
GEAR		OTTER TRAWL (COMMERCIAL)											
CATCHES/LANDINGS		LANDINGS											
MONTH		JULY-SEPTEMBER						OCTOBER-DECEMBER					
COUNTRY		UNITED STATES											
TONNAGE		15-145											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1962	1	-	-	7	-	-	37.48	-	-	32	-	-	38.14
1961	2	-	-	195	-	-	44.23	-	-	210	-	-	44.64
1960	3	-	-	255	-	-	49.37	-	-	250	-	-	50.26
1959	4	-	-	300	-	-	53.22	-	-	278	-	-	55.16
1958	5	-	-	169	-	-	55.10	-	-	155	-	-	58.80
1957	6	-	-	35	-	-	59.29	-	-	34	-	-	63.65
1956	7	-	-	17	-	-	65.11	-	-	15	-	-	66.66
1955	8	-	-	12	-	-	66.27	-	-	9	-	-	71.25
1954	9+	-	-	11	-	-	70.17	-	-	16	-	-	69.79
TOTAL ‰		-	-	1001	/			-	-	999	/		
SERIAL NUMBERS		-	-	-									
NUMBER OF SAMPLES		-	-	59									
NUMBER OF FISH AGED		-	-	989									
MEAN AGE		-	-	3.73									
MEAN WEIGHT (KG)		-	-	1.45									
TOTAL WEIGHT LANDED (TONS)		-	-	11313									
ESTIMATED NUMBER LANDED ¹⁾		-	-	77924									
MESH SIZE (INCHES)		-	-	4.5									
RANGE OF DEPTHS (FM)		-	-	14-140									

1) FIGURES IN HUNDREDS

TABLE 59

AGE/LENGTH KEYS AND FREQUENCIES (HADDOCK) - 1963

(AVAILABLE ON REQUEST FROM THE SECRETARIAT)

IN ACCORDANCE WITH A RECOMMENDATION MADE BY THE RESEARCH AND STATISTICS COMMITTEE AT THEIR ANNUAL MEETING IN 1962, AGE/LENGTH KEYS AND FREQUENCIES WILL NOT BE PUBLISHED BUT ARE TO BE DEPOSITED IN THE SECRETARIAT AND MADE AVAILABLE TO MEMBER COUNTRIES ON REQUEST. THE FOLLOWING AGE/LENGTH KEYS AND FREQUENCIES FOR HADDOCK ARE NOW ON FILE IN THE SECRETARIAT. (THE NUMERALS IN THE COLUMNS REPRESENT THE NUMBER OF SAMPLES HELD ON FILE FOR EACH DIVISION, MONTH AND COUNTRY.)

ALL GEARS --- BY DIVISIONS, MONTHS AND COUNTRIES

DIVISION	MONTH	U. S. S. R.	TOTAL
30	APRIL	1	1
3P	APRIL	1	1
TOTAL		2	2

TABLE 60

LENGTH FREQUENCIES - REDFISH¹⁾ - IA - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (EXPLORATORY)								
	CATCHES								
CATCHES/LANDINGS	JULY			NOVEMBER			DECEMBER		
MONTH	U. S. S. R.								
COUNTRY	"MARINUS"								
SPECIES OR TYPE	00	00	Tot.	00	00	Tot.	00	00	Tot.
SEX				1800 AND OVER 1800					
TONNAGE				1800 AND OVER 1800					
<29	21	30	51	2	8	10	-	-	-
29	10	17	27	3	1	4	-	-	-
30	18	40	58	1	1	2	-	5	5
31	15	17	32	3	1	4	-	3	3
32	19	23	42	3	11	14	7	3	10
33	31	18	49	4	3	7	-	3	3
34	16	11	27	16	5	21	-	7	7
35	27	26	53	9	4	13	5	13	18
36	17	15	32	13	12	25	3	3	6
37	15	14	29	12	18	30	11	15	26
38	21	15	36	25	18	43	29	34	63
39	17	12	29	32	23	55	24	21	45
40	25	23	48	33	15	48	50	34	84
41	17	7	24	18	36	54	19	32	51
42	14	12	26	52	25	77	32	19	51
43	22	18	40	60	44	104	45	40	85
44	23	27	50	18	39	57	21	21	42
45	23	32	55	23	33	56	37	45	82
46	27	27	54	21	36	57	34	29	63
47	16	35	51	39	43	82	24	34	58
48	16	27	43	32	62	94	29	45	74
49	8	21	29	9	32	41	7	19	26
50	10	19	29	8	21	29	34	37	71
51	6	6	12	5	12	17	3	15	18
52	2	6	8	3	7	10	3	11	14
53	-	6	6	3	4	7	-	7	7
54	3	3	6	-	1	1	-	5	5
55	1	2	3	-	4	4	-	3	3
56	4	2	6	-	-	-	5	-	5
57	-	-	-	-	-	-	-	3	3
58	1	-	1	1	-	1	5	5	10
59	2	1	3	1	-	1	3	3	6
60	2	6	8	5	-	5	5	3	8
61	-	1	1	3	1	4	3	3	6
62	1	3	4	-	-	-	5	3	8
63	1	2	3	-	3	3	-	-	-
64	1	4	5	1	3	4	-	-	-
65	4	3	7	5	-	5	-	5	5
66	-	2	2	1	-	1	3	-	3
>66	6	4	10	1	8	9	12	14	26
TOTAL 0/00	462	597	999	465	534	999	458	542	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	11	11	11	5	5	5	8	8	8
NUMBER OF FISH MEASURED	988	1145	2133	350	399	749	173	205	378
MEAN LENGTH (CM)	40.3	41.0	40.7	43.1	44.3	43.7	44.9	45.2	45.1
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (MM)	-	-	110	-	-	110	-	-	110
RANGE OF DEPTHS (FM)	-	-	97-298	-	-	102-222	-	-	116-194

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 61

LENGTH FREQUENCIES - REDFISH¹⁾ - 1B - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (EXPLORATORY)					
CATCHES/LANDINGS	CATCHES					
MONTH	AUGUST			NOVEMBER		
COUNTRY	U. S. S. R.					
SPECIES OR TYPE	"MARINUS"					
SEX	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	1800 AND OVER 1800					
<20	8	-	8	-	-	-
20	8	-	8	-	-	-
21	4	4	8	-	-	-
22	4	8	12	-	-	-
23	27	23	50	-	-	-
24	39	20	59	-	-	-
25	27	43	70	2	-	2
26	39	23	62	1	-	1
27	39	23	62	2	-	2
28	31	34	65	1	2	3
29	8	4	12	-	2	2
30	-	8	8	2	2	4
31	-	-	-	2	2	4
32	4	4	8	8	6	14
33	4	-	4	4	4	8
34	-	4	4	12	8	20
35	-	4	4	13	19	32
36	4	12	16	21	13	34
37	16	20	36	27	23	50
38	20	20	40	52	55	107
39	27	23	50	45	31	76
40	47	43	90	48	75	123
41	43	12	55	41	31	72
42	31	20	51	20	42	62
43	20	20	40	44	37	81
44	8	16	24	12	18	30
45	8	43	51	25	26	51
46	4	16	20	13	22	35
47	8	23	31	19	17	36
48	12	20	32	11	19	30
49	4	-	4	5	10	15
50	-	8	8	13	10	23
51	-	4	4	8	4	12
52	-	-	-	8	3	11
53	-	4	4	8	3	11
54	-	-	-	2	2	4
55	-	-	-	6	5	11
56	-	-	-	4	1	5
57	-	-	-	7	2	9
58	-	-	-	4	2	6
59	-	-	-	2	1	3
60	-	-	-	7	4	11
TOTAL 0/00	494	506	1000	499	501	1000
SERIAL NUMBERS	-	-	-	-	-	-
NUMBER OF SAMPLES	3	3	3	4	4	4
NUMBER OF FISH MEASURED	126	129	255	666	669	1335
MEAN LENGTH (CM)	33.4	36.0	34.7	42.1	41.7	41.9
MEAN WEIGHT (KG)	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH SIZE (MM)	-	-	110	-	-	110
RANGE OF DEPTHS (FM)	-	-	130-177	-	-	108-183

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 62

LENGTH FREQUENCIES - REDFISH¹⁾ - IC - 1963

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	OTTER TRAWL (EXPLORATORY)								
	CATCHES								
CATCHES/LANDINGS	JANUARY			FEBRUARY			MARCH		
MONTH	U. S. S. R.								
COUNTRY	"MARINUS"								
SPECIES OR TYPE	‰	‰	Tot.	‰	‰	Tot.	‰	‰	Tot.
SEX	1800 AND OVER 1800								
TONNAGE	‰	‰	Tot.	‰	‰	Tot.	‰	‰	Tot.
23	2	4	6	-	-	-	-	-	-
24	-	-	-	-	-	-	1	1	2
25	-	-	-	1	1	2	3	6	9
26	-	-	-	1	1	2	10	12	22
27	-	2	2	3	6	9	12	22	34
28	2	2	4	6	7	13	16	26	42
29	2	-	2	5	5	10	19	25	44
30	6	-	6	12	15	27	33	46	79
31	15	9	24	7	10	17	31	37	68
32	19	24	43	18	22	40	36	45	81
33	11	36	47	13	12	25	32	38	70
34	13	19	32	20	24	44	30	39	69
35	36	30	66	35	48	83	32	41	73
36	28	34	62	24	37	61	27	29	56
37	28	26	54	25	38	63	29	29	58
38	32	45	77	22	29	51	26	21	47
39	19	28	47	20	24	44	25	19	44
40	45	56	101	33	39	72	32	27	59
41	39	39	78	23	28	51	19	13	32
42	41	47	88	20	31	51	15	12	27
43	19	43	62	20	30	50	12	17	29
44	15	24	39	13	20	33	12	7	19
45	17	28	45	20	35	55	8	7	15
46	13	9	22	11	18	29	3	3	6
47	19	9	28	9	23	32	2	3	5
48	6	6	12	6	13	19	2	2	4
49	-	-	-	3	8	11	1	2	3
50	6	2	8	5	9	14	-	-	-
51	2	2	4	4	4	8	-	-	-
52	4	-	4	4	4	8	-	-	-
53	4	2	6	3	4	7	-	-	-
54	2	2	4	4	3	7	-	-	-
55	-	2	2	3	6	9	-	-	-
56	-	2	2	2	2	4	-	-	-
57	4	-	4	3	4	7	-	-	-
58	2	-	2	4	4	8	-	-	-
59	2	-	2	3	3	6	-	-	-
60	-	2	2	4	5	9	-	-	-
61	-	2	2	2	3	5	-	-	-
62	2	2	4	1	3	4	-	-	-
63	2	-	2	1	2	3	-	-	-
>63	4	-	4	3	3	6	-	-	-
TOTAL ‰/‰	461	538	999	416	583	999	468	529	997
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	4	4	4	15	15	15	5	5	5
NUMBER OF FISH MEASURED	217	251	468	1957	2732	4689	1133	1277	2410
MEAN LENGTH (CM)	40.3	39.5	39.8	40.3	40.6	40.5	35.2	34.2	34.7
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	85	-	-	211
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (MM)	-	-	110	-	-	110	-	-	110
RANGE OF DEPTHS (FM)	-	-	88-166	-	-	94-266	-	-	83-147

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 62
(CONT'D)LENGTH FREQUENCIES - REDFISH¹⁾ - IC - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (EXPLORATORY)					
	CATCHES					
CATCHES/LANDINGS	APRIL			JULY		
MONTH	U. S. S. R.					
COUNTRY	"MARINUS"					
SPECIES OR TYPE						
SEX	00	00	TOT.	00	00	TOT.
TONNAGE	1800 AND OVER 1800					
22	-	1	1	-	-	-
23	-	-	-	-	1	1
24	1	1	2	1	1	2
25	-	3	3	2	4	6
26	2	3	5	2	3	5
27	3	-	3	9	14	23
28	3	9	12	4	8	12
29	1	3	4	5	5	10
30	7	20	27	15	15	30
31	14	16	30	9	9	18
32	12	20	32	19	23	42
33	14	17	31	12	13	25
34	12	16	28	22	20	42
35	19	27	46	31	32	63
36	21	18	39	18	15	33
37	19	22	41	24	18	42
38	19	23	42	37	28	65
39	15	13	28	25	22	47
40	24	21	45	47	42	89
41	16	15	31	20	14	34
42	16	25	41	23	23	46
43	21	20	41	32	28	60
44	13	12	25	7	9	16
45	19	36	55	25	30	55
46	14	18	32	13	15	28
47	9	13	22	12	15	27
48	14	18	32	6	8	14
49	12	17	29	6	4	10
50	18	20	38	9	8	17
51	15	17	32	2	1	3
52	12	14	26	4	2	6
53	10	10	20	7	4	11
54	9	12	21	3	2	5
55	18	20	38	11	7	18
56	9	10	19	9	3	12
57	12	6	18	5	4	9
58	4	7	11	8	8	16
59	8	6	14	3	3	6
60	9	13	22	5	7	12
61	4	2	6	1	1	2
62	1	-	1	5	3	8
63	1	1	2	2	2	4
> 68	4	1	5	11	14	25
TOTAL 0/00	454	546	1000	511	488	999
SERIAL NUMBERS	-	-	-	-	-	-
NUMBER OF SAMPLES	5	5	5	13	13	13
NUMBER OF FISH MEASURED	488	586	1074	1917	1831	3748
MEAN LENGTH (CM)	43.8	42.9	43.3	41.5	41.0	41.2
MEAN WEIGHT (KG)	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	49	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH SIZE (MM)	-	-	110	-	-	110
RANGE OF DEPTHS (FM)	-	-	77-183	-	-	83-250

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 62
(CONT'D)LENGTH FREQUENCIES - REDFISH¹⁾ - IC - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (EXPLORATORY)					
	CATCHES					
CATCHES/LANDINGS	AUGUST			NOVEMBER		
MONTH	U. S. S. R.					
COUNTRY	"MARINUS"					
SPECIES OR TYPE						
SEX	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	1800 AND OVER 1800					
25	3	-	3	-	-	-
26	10	10	20	-	3	3
27	23	33	56	4	4	8
28	59	82	141	16	16	32
29	87	51	138	20	12	32
30	92	110	202	19	10	29
31	53	49	102	17	14	31
32	56	46	102	46	49	95
33	36	42	78	37	23	60
34	15	15	30	24	29	53
35	23	15	38	24	24	48
36	18	5	23	17	20	37
37	15	13	28	36	45	81
38	18	5	23	24	45	69
39	-	3	3	24	29	53
40	10	-	10	42	33	75
41	3	-	3	33	27	60
42	-	-	-	36	27	63
43	-	-	-	22	14	36
44	-	-	-	3	7	10
45	-	-	-	26	23	49
46	-	-	-	16	14	30
47	-	-	-	10	10	20
48	-	-	-	7	7	14
49	-	-	-	1	-	1
50	-	-	-	3	4	7
51	-	-	-	1	-	1
52	-	-	-	-	1	1
53	-	-	-	3	3	6
54	-	-	-	-	-	-
>54	-	-	-	-	2	2
TOTAL 0/00	521	479	1000	505	495	1000
SERIAL NUMBERS	-	-	-	-	-	-
NUMBER OF SAMPLES	1	1	1	5	5	5
NUMBER OF FISH MEASURED	204	187	391	353	346	699
MEAN LENGTH (CM)	31.2	30.5	30.8	37.5	37.5	37.5
MEAN WEIGHT (KG)	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	5
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH SIZE (MM)	-	-	110	-	-	110
RANGE OF DEPTHS (FM)	-	-	52-69	-	-	66-150

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 63

LENGTH FREQUENCIES - REDFISH¹⁾ - ID - 1963

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	OTTER TRAWL (EXPLORATORY)								
	CATCHES/LANDINGS			CATCHES					
MONTH	FEBRUARY			MARCH			JUNE		
COUNTRY	U. S. S. R.								
SPECIES OR TYPE	"MARINUS"								
SEX	♂	♀	Tot.	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	1800 AND OVER 1800								
<29	8	6	14	2	8	10	2	2	4
29	4	4	8	16	18	34	1	1	2
30	7	5	12	8	36	44	3	5	8
31	6	6	12	32	18	50	5	2	7
32	8	5	13	26	30	56	6	3	9
33	7	10	17	18	38	56	6	4	10
34	17	14	31	28	26	54	13	11	24
35	12	16	28	20	24	44	18	17	35
36	17	12	29	24	36	60	17	21	38
37	22	17	39	12	16	28	30	23	53
38	27	20	47	26	18	44	30	34	64
39	19	28	47	22	16	38	23	15	38
40	20	24	44	32	48	80	39	37	76
41	26	16	42	26	32	58	29	21	50
42	46	28	74	20	26	46	27	27	54
43	47	24	71	32	22	54	42	49	91
44	45	34	79	14	20	34	16	20	36
45	44	48	92	20	38	58	56	58	114
46	25	45	70	12	22	34	20	31	51
47	28	33	61	12	10	22	26	37	63
48	11	17	28	12	16	28	12	31	43
49	14	15	29	4	14	18	6	14	20
50	1	12	13	6	18	24	2	13	15
51	6	7	13	-	4	4	1	4	5
52	2	5	7	-	-	-	3	5	8
53	1	4	5	-	2	2	3	3	6
54	-	3	3	-	-	-	2	2	4
55	3	1	4	-	-	-	6	3	9
56	1	-	1	-	-	-	2	3	5
57	2	-	2	2	-	2	5	6	11
58	-	2	2	-	-	-	3	1	4
59	5	7	12	-	-	-	1	2	3
60	5	2	7	-	2	2	4	3	7
61	3	-	3	2	-	2	1	5	6
62	4	4	8	2	2	4	2	3	5
63	3	3	6	-	2	2	1	1	2
64	1	4	5	2	-	2	1	2	3
65	4	1	5	2	-	2	3	4	7
66	-	2	2	-	-	-	-	1	1
>66	6	7	13	2	2	4	6	3	9
TOTAL ‰	507	491	998	436	564	1000	473	527	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	9	9	9	3	3	3	4	4	4
NUMBER OF FISH MEASURED	707	683	1390	218	282	500	839	934	1173
MEAN LENGTH (CM)	42.8	43.6	43.2	38.9	39.0	39.0	42.7	43.7	43.2
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	77	-	-	2	-	-	6
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (MM)	-	-	110	-	-	110	-	-	110
RANGE OF DEPTHS (FM)	-	-	77-228	-	-	111-200	-	-	111-222

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 64

LENGTH FREQUENCIES - REDFISH¹⁾ - IE - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (EXPLORATORY)					
CATCHES/LANDINGS	CATCHES					
MONTH	JUNE			JULY		
COUNTRY	U. S. S. R.					
SPECIES OR TYPE	"MARINUS"					
SEX	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	1800 AND OVER 1800					
< 29	5	-	5	-	-	-
29	5	2	7	-	-	-
30	5	3	8	-	-	-
31	8	8	16	1	1	2
32	10	6	16	4	5	9
33	10	14	24	4	3	7
34	26	26	52	16	12	28
35	35	21	56	14	18	32
36	32	30	62	27	16	43
37	45	36	81	19	31	50
38	57	57	114	38	38	76
39	24	35	59	14	20	34
40	57	42	99	56	30	86
41	29	26	55	22	27	49
42	33	33	66	45	52	97
43	16	21	37	23	35	58
44	11	13	24	19	35	54
45	18	21	39	42	60	102
46	6	13	19	8	47	55
47	11	6	17	19	39	58
48	3	6	9	15	19	34
49	3	5	8	9	20	29
50	6	10	16	12	20	32
51	3	3	6	3	5	8
52	2	3	5	1	1	2
53	3	5	8	-	3	3
54	2	3	5	1	3	4
55	3	5	8	1	3	4
56	3	2	5	3	1	4
57	11	5	16	3	5	8
58	2	3	5	3	1	4
59	5	5	10	1	1	2
60	2	11	13	1	5	6
61	-	2	2	1	3	4
62	5	3	8	1	1	2
63	2	-	2	1	1	2
64	3	-	3	-	-	-
65	3	3	6	1	3	4
66	2	2	4	-	1	1
> 66	-	6	6	2	5	7
TOTAL 0/00	506	495	1001	430	570	1000
SERIAL NUMBERS	-	-	-	-	-	-
NUMBER OF SAMPLES	4	4	4	6	6	6
NUMBER OF FISH MEASURED	316	307	623	315	421	736
MEAN LENGTH (CM)	40.6	41.7	41.1	42.2	43.7	43.0
MEAN WEIGHT (KG)	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	11	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH SIZE (MM)	-	-	110	-	-	110
RANGE OF DEPTHS (FM)	-	-	55-205	-	-	66-222

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 64
(CONT'D)LENGTH FREQUENCIES - REDFISH¹⁾ - 1E - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (EXPLORATORY)					
	CATCHES/LANDINGS					
MONTH	SEPTEMBER			NOVEMBER		
COUNTRY	U. S. S. R.					
SPECIES OR TYPE	"MARINUS"					
SEX	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	1800 AND OVER			1800		
29	-	-	-	13	7	20
29	-	-	-	17	4	21
30	-	-	-	5	7	12
31	-	-	-	28	7	35
32	4	-	4	83	41	124
33	-	13	13	49	25	74
34	-	4	4	87	30	117
35	13	-	13	36	15	51
36	9	18	27	52	36	88
37	18	9	27	34	28	62
38	18	26	44	58	49	107
39	31	40	71	17	9	26
40	101	79	180	17	7	24
41	55	57	112	15	15	30
42	65	31	96	30	25	55
43	62	49	111	28	11	39
44	35	22	57	9	7	16
45	35	71	106	5	9	14
46	18	26	44	11	2	13
47	4	26	30	9	9	18
48	4	31	35	11	7	18
49	-	9	9	2	2	4
50	-	-	-	4	4	8
51	-	-	-	-	-	-
52	-	-	-	2	-	2
53	-	-	-	-	4	4
54	-	-	-	-	-	-
55	-	9	9	2	2	4
56	-	-	-	-	-	-
57	-	-	-	2	2	4
58	-	-	-	2	2	4
59	4	-	4	2	-	2
60	4	-	4	4	-	4
TOTAL 0/00	480	520	1000	634	366	1000
SERIAL NUMBERS	-	-	-	-	-	-
NUMBER OF SAMPLES	1	1	1	5	5	5
NUMBER OF FISH MEASURED	109	118	227	338	196	534
MEAN LENGTH (CM)	41.3	42.3	42.0	36.7	37.7	37.1
MEAN WEIGHT (KG)	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH SIZE (MM)	-	-	110	-	-	110
RANGE OF DEPTHS (FM)	-	-	61-119	-	-	83-128

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 65

LENGTH FREQUENCIES - REDFISH¹⁾ - IF - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (EXPLORATORY)								
	CATCHES								
CATCHES/LANDINGS	JANUARY			JUNE			NOVEMBER		
MONTH	U. S. S. R.								
COUNTRY	"MARINUS"								
SPECIES OR TYPE									
SEX	00	00	Tot.	00	00	Tot.	00	00	Tot.
TONNAGE	1800 AND OVER 1800								
<30	4	2	6	-	-	-	7	3	10
30	2	1	3	-	-	-	3	-	3
31	5	1	6	-	-	-	6	3	9
32	19	6	19	9	-	9	43	38	81
33	9	2	11	18	5	23	18	13	31
34	24	9	33	5	14	19	33	18	51
35	38	22	60	18	18	36	14	8	22
36	29	17	46	33	18	51	31	12	43
37	26	19	45	55	37	92	23	13	36
38	32	20	52	33	51	84	59	28	87
39	27	29	56	14	9	23	24	5	29
40	29	24	53	37	28	65	10	3	13
41	20	20	40	23	23	46	35	18	53
42	32	27	59	42	18	60	76	30	106
43	22	24	46	23	41	64	51	27	78
44	27	27	54	18	37	55	36	16	52
45	33	41	74	60	51	111	19	5	24
46	32	26	58	18	14	32	16	24	40
47	35	39	74	28	18	46	35	16	51
48	28	39	67	18	32	50	16	33	49
49	16	19	35	14	9	23	3	1	4
50	9	19	28	18	9	27	4	10	14
51	3	9	12	-	14	14	4	3	7
52	3	9	12	5	5	10	1	6	7
53	2	4	6	-	5	5	3	5	8
54	1	2	3	9	9	18	1	6	7
55	4	4	8	-	9	9	-	-	-
56	2	1	3	9	5	14	1	-	1
57	3	1	4	-	5	5	8	6	14
58	4	4	8	9	-	9	19	-	19
59	4	-	4	-	-	-	1	-	1
60	4	3	7	-	-	-	3	-	3
61	-	1	1	-	-	-	-	-	-
62	1	-	1	-	-	-	6	-	6
63	1	1	2	-	-	-	6	-	6
64	1	-	1	-	-	-	5	-	5
65	1	1	2	-	-	-	-	-	-
66	-	-	-	-	-	-	3	-	3
67	1	-	1	-	-	-	6	-	6
68	-	-	-	-	-	-	8	-	8
71	-	-	-	-	-	-	3	-	3
72	-	-	-	-	-	-	4	-	4
73	-	-	-	-	-	-	3	-	3
74	-	-	-	-	-	-	1	-	1
75	-	-	-	-	-	-	1	-	1
77	-	-	-	-	-	-	1	-	1
TOTAL 0/00	527	473	1000	516	484	1000	650	350	1000
NUMBER OF SAMPLES	5	5	5	2	2	2	4	4	4
NUMBER OF FISH MEASURED	734	659	1393	112	105	217	509	274	783
MEAN LENGTH (CM)	41.9	43.5	42.7	42.2	42.9	42.5	42.8	41.5	42.3
MESH SIZE (MM)	-	-	110	-	-	110	-	-	110
RANGE OF DEPTHS (FM)	-	-	111-277	-	-	83-144	-	-	72-150

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 66

LENGTH FREQUENCIES - REDFISH¹⁾ - 2J - 1963

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)					
CATCHES/LANDINGS	CATCHES					
MONTH	FEBRUARY			OCTOBER		
COUNTRY	POLAND					
SPECIES OR TYPE	"MARINUS" AND "MENTELLA"					
SEX	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	2670					
24	5	5	10	-	-	-
25	12	-	12	-	-	-
26	15	3	18	-	-	-
27	18	7	25	-	-	-
28	15	13	28	-	-	-
29	5	5	10	-	-	-
30	25	10	35	-	3	3
31	35	23	58	6	-	6
32	30	25	55	3	3	6
33	48	50	98	3	19	22
34	48	12	60	16	22	38
35	60	33	93	10	32	42
36	73	22	95	32	39	71
37	45	18	63	22	61	83
38	58	20	78	58	71	129
39	13	10	23	80	67	147
40	13	25	38	48	93	141
41	2	23	25	39	39	78
42	-	48	48	32	55	87
43	-	20	20	13	39	52
44	-	53	53	3	32	35
45	-	33	33	10	16	26
46	-	12	12	3	16	19
47	-	8	8	-	-	-
48	-	2	2	-	6	6
49	-	-	-	6	-	6
50	-	-	-	3	-	3
TOTAL ‰	520	480	1000	387	613	1000
SERIAL NUMBERS	-	-	-	-	-	-
NUMBER OF SAMPLES	1	1	1	1	1	1
NUMBER OF FISH MEASURED	207	191	398	121	191	312
MEAN LENGTH (CM)	33.8	37.9	35.8	39.1	39.3	39.2
MEAN WEIGHT (KG)	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH SIZE (MM)	-	-	100	-	-	100
RANGE OF DEPTHS (FM)	-	-	210	-	-	262-290

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 66
(CONT'D)LENGTH FREQUENCIES - REDFISH¹⁾ - 2J - 1963

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	OTTER TRAWL (EXPLORATORY)					
CATCHES/LANDINGS	CATCHES					
MONTH	MAY			MARCH		
COUNTRY	U. S. S. R.					
SPECIES OR TYPE	"MENTELLA"					
SEX	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	1800					
21	1	1	2	1	1	2
22	1	1	2	3	1	4
23	2	2	4	6	5	11
24	2	-	2	6	3	9
25	2	2	4	8	6	14
26	5	4	9	16	11	27
27	12	4	16	15	9	24
28	17	11	28	14	10	24
29	23	14	37	17	9	26
30	44	31	75	27	7	34
31	76	41	117	37	9	46
32	79	49	128	43	12	55
33	51	32	83	50	8	58
34	47	29	76	53	12	65
35	41	24	65	80	12	92
36	38	17	55	97	14	111
37	32	19	51	71	14	85
38	16	17	33	47	16	63
39	14	15	29	20	10	30
40	8	25	33	10	20	30
41	6	18	24	3	26	29
42	3	26	29	1	29	30
43	5	21	26	1	38	39
44	3	15	18	-	24	24
45	2	19	21	-	33	33
46	1	11	12	-	17	17
47	1	9	10	-	12	12
48	1	5	6	-	4	4
49	-	3	3	-	1	1
50	-	2	2	-	1	1
TOTAL ‰	533	467	1000	626	374	1000
SERIAL NUMBERS	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	-	-	-	-
NUMBER OF FISH MEASURED	-	-	-	-	-	-
MEAN LENGTH (CM)	33.17	36.24	34.66	33.79	38.31	35.49
MEAN WEIGHT (KG)	0.409	0.417	0.412	0.763	1.365	1.004
TOTAL WEIGHT LANDED (TONS)	-	-	111	-	-	630
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH SIZE (MM)	-	-	110	-	-	110
RANGE OF DEPTHS (FM)	-	-	265-280	-	-	165-175

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 67

LENGTH FREQUENCIES - REDFISH¹⁾ - 3K - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)					
CATCHES/LANDINGS	CATCHES					
MONTH	FEBRUARY			FEBRUARY		
COUNTRY	POLAND					
SPECIES OR TYPE	"MARINUS" AND "MENTELLA"					
SEX	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	2670					
18	-	-	-	-	2	2
19	-	1	1	-	-	-
20	-	1	1	-	2	2
21	1	-	1	2	1	3
22	1	2	3	-	2	2
23	2	1	3	1	-	1
24	1	1	2	-	5	5
25	2	2	4	2	5	7
26	4	1	5	2	3	5
27	3	3	6	6	2	8
28	8	2	10	5	5	10
29	6	3	9	1	2	3
30	18	6	24	9	6	15
31	20	7	27	11	6	17
32	28	14	42	8	5	13
33	39	11	50	8	-	8
34	56	10	66	17	7	24
35	75	10	85	24	6	30
36	88	10	98	44	10	54
37	78	9	87	38	6	44
38	61	13	74	38	10	48
39	27	12	39	33	14	47
40	17	26	43	45	25	70
41	5	33	38	36	25	61
42	3	55	58	30	24	54
43	2	57	59	16	17	33
44	-	48	48	28	33	61
45	1	51	52	28	23	51
46	-	29	29	29	20	49
47	-	18	18	23	13	36
48	-	9	9	46	25	71
49	-	6	6	16	14	30
50	-	2	2	18	15	33
51	-	1	1	17	6	23
52	-	-	-	14	11	25
53	-	-	-	9	2	11
54	-	-	-	1	6	7
55	-	-	-	9	2	11
56	-	-	-	-	5	5
57	-	-	-	1	9	10
58	-	-	-	-	1	1
59	-	-	-	-	2	2
60	-	-	-	-	5	5
61	-	-	-	-	1	1
62	-	-	-	-	2	2
TOTAL 0/00	546	454	1000	615	385	1000
SERIAL NUMBERS	-	-	-	-	-	-
NUMBER OF SAMPLES	9	9	9	9	9	9
NUMBER OF FISH MEASURED	2212	1829	4041	536	336	872
MEAN LENGTH (CM)	35.1	40.9	37.7	41.4	42.8	41.9
MEAN WEIGHT (KG)	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH SIZE (MM)	-	-	100	-	-	100
RANGE OF DEPTHS (FM)	-	-	147-218	-	-	147-218

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 67
(CONT'D)LENGTH FREQUENCIES - REDFISH¹⁾ - 3K - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL								
	(COMMERCIAL)						(EXPLORATORY)		
CATCHES/LANDINGS	CATCHES								
MONTH	OCTOBER			OCTOBER			MAY		
COUNTRY	POLAND						U. S. S. R.		
SPECIES OR TYPE	"MARINUS" AND "MENTELLA"						"MENTELLA"		
SEX	♂	♀	TOT.	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	2670						1800		
22	-	-	-	-	-	-	-	1	1
23	-	-	-	-	-	-	2	3	5
24	-	-	-	-	-	-	3	3	6
25	-	-	-	-	-	-	2	2	4
26	-	-	-	-	-	-	8	6	14
27	-	-	-	-	-	-	9	7	16
28	-	-	-	-	-	-	14	9	23
29	-	-	-	-	-	-	16	11	27
30	2	3	5	-	4	4	43	22	65
31	4	5	9	8	-	8	55	30	85
32	9	16	25	4	8	12	75	47	122
33	15	19	34	29	17	46	45	25	70
34	27	29	56	21	37	58	44	27	71
35	27	28	55	33	50	83	51	20	71
36	29	36	65	50	54	104	49	17	66
37	38	41	79	29	41	70	46	16	62
38	44	49	93	33	62	95	39	16	55
39	60	51	111	13	83	96	22	12	34
40	46	48	94	17	87	104	22	19	41
41	40	37	77	4	108	112	6	13	19
42	32	37	69	-	50	50	5	20	25
43	35	29	64	-	46	46	4	19	23
44	22	33	55	-	41	41	3	19	22
45	18	34	52	4	21	25	-	22	22
46	8	14	22	-	29	29	-	17	17
47	7	10	17	-	13	13	2	10	12
48	4	6	10	-	4	4	1	5	6
49	3	1	4	-	-	-	-	4	4
50	1	2	3	-	-	-	1	3	4
51	-	1	1	-	-	-	-	1	1
52	-	-	-	-	-	-	-	3	3
53	-	-	-	-	-	-	-	1	1
54	-	-	-	-	-	-	-	1	1
55	-	-	-	-	-	-	-	-	-
56	-	-	-	-	-	-	-	-	-
57	-	-	-	-	-	-	-	1	1
58	-	-	-	-	-	-	-	-	-
59	-	-	-	-	-	-	-	1	1
TOTAL 0/00	471	529	1000	245	755	1000	567	433	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	6	6	6	1	1	1	-	-	-
NUMBER OF FISH MEASURED	908	1018	1926	59	182	241	-	-	-
MEAN LENGTH (CM)	39.2	39.4	39.3	36.2	39.6	38.7	34.0	36.93	35.25
MEAN WEIGHT (KG)	-	-	-	-	-	-	0.610	1.330	0.840
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-	-	-	25
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (MM)	-	-	100	-	-	100	-	-	110
RANGE OF DEPTHS (FM)	-	-	273-322	-	-	153-164	-	-	-

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 68

LENGTH FREQUENCIES - REDFISH¹⁾ - 3L - 1963

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	OTTER TRAWL					
	(COMMERCIAL)			(EXPLORATORY)		
CATCHES/LANDINGS	CATCHES					
MONTH	JANUARY			JULY		
COUNTRY	POLAND			U. S. S. R.		
SPECIES OR TYPE	"MARINUS" AND "MENTELLA"			"MENTELLA"		
SEX	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	2670			1800		
24	1	2	3	-	1	1
25	6	3	9	1	-	1
26	10	6	16	1	2	3
27	16	14	30	3	3	6
28	27	16	43	2	3	5
29	21	7	28	5	4	9
30	28	10	38	6	11	17
31	30	7	37	8	10	18
32	50	7	57	23	10	33
33	60	8	68	28	21	49
34	76	12	88	30	16	46
35	129	17	146	95	28	123
36	103	9	112	70	21	91
37	68	11	79	56	23	79
38	39	21	60	40	22	62
39	11	13	24	18	28	46
40	9	20	29	15	72	87
41	3	15	18	7	64	71
42	3	26	29	6	70	76
43	3	23	26	2	64	66
44	1	23	24	1	35	36
45	1	15	16	1	45	46
46	-	7	7	-	17	17
47	-	8	8	-	8	8
48	-	3	3	-	3	3
49	-	2	2	-	1	1
TOTAL ‰	695	305	1000	418	582	1000
SERIAL NUMBERS	-	-	-	-	-	-
NUMBER OF SAMPLES	5	5	5	-	-	-
NUMBER OF FISH MEASURED	1630	710	2340	-	-	-
MEAN LENGTH (CM)	34.0	37.6	35.1	35.63	39.83	38.06
MEAN WEIGHT (KG)	-	-	-	0.785	0.960	0.872
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH SIZE (MM)	-	-	100	-	-	110
RANGE OF DEPTHS (FM)	-	-	164-262	-	-	200-205

- 1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 69 LENGTH FREQUENCIES - REDFISH¹⁾ - 3M - 1963 (FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)		
CATCHES/LANDINGS	CATCHES		
MONTH	MARCH		
COUNTRY	POLAND		
SPECIES OR TYPE	"MARINUS" AND "MENTELLA"		
SEX	00	90	TOT.
TONNAGE	2670		
18	1	-	1
19	1	-	1
20	-	2	2
21	1	-	1
22	-	-	-
23	-	-	-
24	3	2	5
25	5	6	11
26	11	5	16
27	9	11	20
28	6	10	16
29	6	5	11
30	29	16	45
31	59	12	71
32	113	15	128
33	142	22	164
34	126	20	147
35	91	35	126
36	51	37	88
37	29	24	53
38	20	13	33
39	11	13	24
40	7	9	16
41	2	4	6
42	2	7	9
43	2	2	4
44	-	1	1
45	-	1	1
46	-	1	1
TOTAL 0/00	727	273	1000
SERIAL NUMBERS	-	-	-
NUMBER OF SAMPLES	4	4	4
NUMBER OF FISH MEASURED	999	351	1290
MEAN LENGTH (CM)	33.3	34.1	33.5
MEAN WEIGHT (KG)	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-
ESTIMATED NUMBER LANDED	-	-	-
MESH SIZE (MM)	-	-	100
RANGE OF DEPTHS (FM)	-	-	202-311

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 70

LENGTH FREQUENCIES - REDFISH¹⁾ - 3N - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
CATCHES/LANDINGS	LANDINGS								
MONTH	JANUARY			FEBRUARY			APRIL		
COUNTRY	UNITED STATES								
SPECIES OR TYPE									
SEX	♂	♀	TOT.	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	151-440								
18	-	-	-	-	-	-	10	-	10
19	-	-	-	-	-	-	-	-	-
20	10	-	10	-	-	-	-	-	-
21	-	-	-	-	-	-	10	-	10
22	40	-	40	10	-	10	20	-	20
23	100	-	100	10	-	10	30	10	40
24	150	80	230	10	-	10	120	20	140
25	140	30	170	110	-	110	70	50	120
26	100	90	190	50	50	100	50	40	90
27	30	60	90	110	40	150	50	80	130
28	20	30	50	20	80	100	10	30	40
29	20	10	30	40	20	60	20	60	80
30	-	20	20	60	30	90	10	40	50
31	10	30	40	60	-	60	20	30	50
32	10	10	20	30	60	90	-	10	10
33	-	-	-	10	10	20	10	10	20
34	-	10	10	10	40	50	30	-	30
35	-	-	-	-	50	50	20	10	30
36	-	-	-	-	40	40	20	20	40
37	-	-	-	-	20	20	10	40	50
38	-	-	-	-	10	10	-	20	20
39	-	-	-	-	10	10	-	10	10
40	-	-	-	-	10	10	-	10	10
TOTAL 0/00	630	370	1000	530	470	1000	510	490	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	11	-	-	1	-	-	1
NUMBER OF FISH MEASURED	63	37	100	53	47	100	51	49	100
MEAN LENGTH (CM)	24.86	26.89	25.61	27.77	31.51	29.53	26.90	29.84	28.34
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	535	-	-	1002	-	-	759
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	2.5	-	-	2.5	-	-	2.5
RANGE OF DEPTHS (FM)	-	-	120-240	-	-	135-150	-	-	150-200

- 1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 70
(CONT'D)LENGTH FREQUENCIES - REDFISH¹⁾ - 3N - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
CATCHES/LANDINGS	LANDINGS								
MONTH	JULY			AUGUST			OCTOBER		
COUNTRY	UNITED STATES								
SPECIES OR TYPE									
SEX	00	99	TOT.	00	99	TOT.	00	99	TOT.
TONNAGE	151-440								
18	-	-	-	-	-	-	-	2	2
19	-	-	-	-	-	-	2	-	2
20	-	-	-	-	-	-	-	5	5
21	-	-	-	5	-	5	5	10	15
22	-	10	10	5	5	10	8	38	46
23	-	10	10	5	-	5	23	48	71
24	10	10	20	25	10	35	68	84	152
25	30	10	40	60	30	90	83	90	173
26	50	30	80	55	45	100	40	92	132
27	30	20	50	105	35	140	28	68	96
28	10	-	10	60	60	120	20	60	80
29	10	10	20	40	50	90	20	42	62
30	10	10	20	50	20	70	10	40	50
31	70	10	80	25	15	40	2	35	37
32	80	10	90	15	35	50	-	20	20
33	70	10	80	5	20	25	-	20	20
34	60	30	90	10	40	50	-	15	15
35	100	10	110	5	30	35	-	18	18
36	60	30	90	5	35	40	-	5	5
37	10	30	40	5	30	35	-	-	-
38	30	10	40	5	20	25	-	-	-
39	20	20	40	-	10	10	-	-	-
40	-	30	30	-	10	10	-	-	-
41	10	10	20	-	15	15	-	-	-
42	-	10	10	-	-	-	-	-	-
43	-	-	10 ²⁾	-	-	-	-	-	-
44	-	-	10 ²⁾	-	-	-	-	-	-
TOTAL 0/00	660	340	1000	485	515	1000	309	692	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	1	-	-	2	-	-	4
NUMBER OF FISH MEASURED	66	34	100	97	103	200	123	277	400
MEAN LENGTH (CM)	32.44	33.62	32.84	27.89	31.33	29.66	25.41	26.85	26.41
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	822	-	-	914	-	-	1351
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	2.5	-	-	2.5	-	-	2.5
RANGE OF DEPTHS (FM)	-	-	210-250	-	-	110-193	-	-	120-180

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

2) ONE NOT SEXED

TABLE 70
(CONT'D)LENGTH FREQUENCIES - REDFISH¹⁾ - 3N - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)					
CATCHES/LANDINGS	LANDINGS					
MONTH	NOVEMBER			DECEMBER		
COUNTRY	UNITED STATES					
SPECIES OR TYPE						
SEX	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	151-440					
20	13	3	16	-	-	-
21	10	10	20	-	7	7
22	7	10	17	7	-	7
23	57	30	87	20	13	33
24	117	43	160	40	20	60
25	110	53	163	126	37	163
26	113	50	163	126	57	183
27	33	43	76	93	77	170
28	33	57	90	57	37	94
29	10	47	57	27	37	64
30	7	27	34	7	47	54
31	-	30	30	-	67	67
32	3	37	40	-	33	33
33	-	20	20	-	37	37
34	-	17	17	-	20	20
35	-	3	3	-	10	10
36	-	3	3	-	-	-
37	-	3	3	-	-	-
TOTAL 0/00	513	486	999	503	499	1002
SERIAL NUMBERS	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	3	-	-	3
NUMBER OF FISH MEASURED	154	146	300	151	149	300
MEAN LENGTH (CM)	25.03	28.28	26.61	26.04	28.69	27.36
MEAN WEIGHT (KG)	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	1045	-	-	748
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	2.5	-	-	2.5
RANGE OF DEPTHS (FM)	-	-	120-180	-	-	120-170

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 70
(CONT'D)LENGTH FREQUENCIES - REDFISH¹⁾ - 3N - 1963

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
	LANDINGS AFTER DISCARD								
CATCHES/LANDINGS	SEPTEMBER			NOVEMBER			NOVEMBER		
MONTH	CANADA (NEWFOUNDLAND)								
COUNTRY	"MENTELLA"								
SPECIES OR TYPE									
SEX	♂	♀	TOT.	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	151-500								
16	-	-	-	-	-	-	1	-	1
17	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	1	-	1
20	1	-	1	3	-	3	1	-	1
21	1	-	1	-	-	-	2	1	3
22	5	3	8	3	3	6	8	1	9
23	23	9	32	18	5	23	19	7	26
24	60	21	81	50	37	87	50	25	75
25	92	38	130	89	39	128	81	38	119
26	98	58	156	84	45	129	105	50	155
27	53	68	121	94	47	141	88	50	138
28	44	83	127	71	58	129	70	46	116
29	17	59	76	34	55	89	39	41	80
30	7	54	61	18	39	57	34	26	60
31	4	37	41	18	39	57	27	28	55
32	6	48	54	18	26	44	24	23	47
33	1	34	35	5	16	21	15	21	36
34	1	26	27	3	11	14	10	19	29
35	1	12	13	3	16	19	4	13	17
36	1	11	12	-	16	16	1	6	7
37	-	7	7	-	11	11	1	9	10
38	-	9	9	-	8	8	-	7	7
39	-	4	4	-	5	5	-	4	4
40	-	1	1	-	5	5	-	1	1
41	-	3	3	-	3	3	-	-	-
42	-	-	-	-	5	5	-	1	1
43	-	-	-	-	-	-	-	1	1
44	-	-	-	-	-	-	-	1	1
TOTAL ‰	415	585	1000	511	489	1000	581	419	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	3	-	-	1	-	-	3
NUMBER OF FISH MEASURED	-	-	815	-	-	381	-	-	1345
MEAN LENGTH (CM)	-	-	27.94	-	-	28.10	-	-	28.00
MEAN WEIGHT (KG)	-	-	0.37	-	-	0.36	-	-	0.34
TOTAL WEIGHT LANDED (TONS)	-	-	533	-	-	277	-	-	482
ESTIMATED NUMBER LANDED	-	-	1429370	-	-	775565	-	-	1429236
MESH SIZE (INCHES)	-	-	2 7/8 ²⁾	-	-	3 ³⁾	-	-	3 ³⁾
RANGE OF DEPTHS (FM)	-	-	165-210	-	-	130-200	-	-	130-160

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

2) MANILLA

3) NYLON

TABLE 71 LENGTH FREQUENCIES - REDFISH¹⁾ - 30 - 1963 (FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
CATCHES/LANDINGS	LANDINGS								
MONTH	JANUARY			JULY			SEPTEMBER		
COUNTRY	UNITED STATES								
SPECIES OR TYPE									
SEX	♂	♀	TOT.	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	151-440								
17	10	-	10	-	-	-	-	-	-
18	10	-	10	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-
20	20	-	20	-	-	-	-	-	-
21	10	10	20	-	-	-	-	-	-
22	60	-	60	-	10	10	-	-	-
23	110	80	190	10	10	20	-	10	10
24	100	20	120	40	-	40	10	-	10
25	160	50	210	40	10	50	40	-	40
26	50	30	80	30	20	50	60	30	90
27	70	50	120	40	-	40	20	70	90
28	40	30	70	60	10	70	60	60	120
29	-	20	20	10	30	40	20	130	150
30	20	10	30	60	10	70	10	130	140
31	-	10	10	-	40	40	-	170	170
32	-	10	10	-	80	80	-	60	60
33	-	-	-	-	100	100	10	50	60
34	-	-	-	-	110	110	10	20	30
35	-	-	-	-	110	110	-	-	-
36	-	-	-	-	60	60	10	-	10
37	-	10	10	-	50	50	-	20	20
38	-	-	-	-	40	40	-	-	-
39	-	10	10	-	20	20	-	-	-
TOTAL ‰	660	340	1000	290	710	1000	250	750	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	1	-	-	1	-	-	1
NUMBER OF FISH MEASURED	66	34	100	29	71	100	25	75	100
MEAN LENGTH (CM)	24.42	26.53	25.14	26.97	33.33	31.48	27.72	30.01	29.44
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	95	-	-	206	-	-	1083
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	2.5	-	-	2.5	-	-	2.5
RANGE OF DEPTHS (FM)	-	-	110-150	-	-	160-210	-	-	230-280

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 71
(CONT'D)LENGTH FREQUENCIES - REDFISH¹⁾ - 30 - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)					
	LANDINGS			LANDINGS AFTER DISCARD		
CATCHES/LANDINGS	OCTOBER			MARCH		
MONTH	UNITED STATES			CANADA (NEWFOUNDLAND)		
COUNTRY	"MENTELLA"					
SPECIES OR TYPE	00	99	Tot.	00	99	Tot.
SEX	151-440			151-500		
TONNAGE						
20	20	-	20	-	-	-
21	20	-	20	4	-	4
22	10	-	10	4	-	4
23	70	-	70	8	8	16
24	30	20	50	65	8	73
25	90	40	130	61	41	102
26	30	80	110	49	37	86
27	40	70	110	61	37	98
28	30	90	120	53	57	110
29	10	30	40	37	81	118
30	10	80	90	32	77	109
31	10	40	50	24	69	93
32	10	60	70	12	49	61
33	-	30	30	-	41	41
34	-	10	10	-	33	33
35	-	20	20	-	24	24
36	10	30	40	-	12	12
37	-	10	10	-	8	8
38	-	-	-	-	8	8
TOTAL 0/00	390	610	1000	410	590	1000
SERIAL NUMBERS	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	1	-	-	1
NUMBER OF FISH MEASURED	39	61	100	-	-	246
MEAN LENGTH (CM)	25.38	29.31	27.78	-	-	28.68
MEAN WEIGHT (KG)	-	-	-	-	-	0.41
TOTAL WEIGHT LANDED (TONS)	-	-	176	-	-	215
ESTIMATED NUMBER LANDED	-	-	-	-	-	391962
MESH SIZE (INCHES)	-	-	2 ₁	-	-	4 ₁ 2)
RANGE OF DEPTHS (FM)	-	-	160-200	-	-	75-200

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

2) MANILLA

TABLE 72

LENGTH FREQUENCIES - REDFISH¹⁾ - 3Ps - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)			
CATCHES/LANDINGS	LANDINGS AFTER DISCARD			
MONTH	MARCH			
COUNTRY	CANADA (NEWFOUNDLAND)			
SPECIES OR TYPE	"MENTELLA"			
SEX	♂	♀	UNSEXED	TOT.
TONNAGE	151-500			
6	-	-	2	2
7	-	-	-	-
8	-	-	-	-
9	-	-	2	2
10	-	-	4	4
11	-	-	2	2
12	-	2	4	6
13	-	-	8	8
14	2	-	6	8
15	-	-	21	21
16	6	2	17	25
17	14	4	15	33
18	29	15	2	46
19	29	37	-	66
20	39	37	-	76
21	35	19	-	54
22	39	21	-	60
23	27	25	-	52
24	29	15	-	44
25	31	17	-	48
26	21	6	-	27
27	42	25	-	67
28	33	12	-	45
29	33	21	-	54
30	60	17	-	77
31	46	23	-	69
32	23	27	-	50
33	10	14	-	24
34	6	6	-	12
35	2	2	-	4
36	-	6	-	6
37	-	2	-	2
38	-	-	-	-
39	-	2	-	2
40	-	4	-	4
TOTAL 0/00	556	361	83	1000
SERIAL NUMBERS	-	-	-	-
NUMBER OF SAMPLES	-	-	-	1
NUMBER OF FISH MEASURED	-	-	-	517
MEAN LENGTH (CM)	-	-	-	24.42
MEAN WEIGHT (KG)	-	-	-	0.28
TOTAL WEIGHT LANDED (TONS)	-	-	-	103
ESTIMATED NUMBER LANDED	-	-	-	182874
MESH SIZE (INCHES)	-	-	-	4 ¹ / ₂)
RANGE OF DEPTHS (FM)	-	-	-	51-100

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

2) MANILLA

TABLE 73

LENGTH FREQUENCIES - REDFISH¹⁾ - 3P - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL											
	(COMMERCIAL)						(EXPLORATORY)					
CATCHES/LANDINGS	LANDINGS						CATCHES					
MONTH	JUNE			JULY			JULY			AUGUST		
COUNTRY	UNITED STATES						CANADA (MARITIMES)			U. S. S. R.		
SPECIES OR TYPE										"MENTELLA"		
SEX	♂	♀	TOT.	♂	♀	TOT.	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	105-440						26-50			1800		
19	-	-	-	-	-	-	-	-	-	1	-	1
20	-	-	-	-	-	-	4	-	4	1	-	1
21	-	-	-	-	10	10	4	-	4	2	-	2
22	-	-	-	-	10	10	8	-	8	5	1	6
23	-	-	-	-	-	-	12	-	12	5	1	6
24	-	10	10	10	10	20	53	-	53	6	1	7
25	20	30	50	10	-	10	53	4	57	8	4	12
26	20	-	20	10	50	60	85	20	105	12	3	15
27	80	30	110	40	10	50	81	24	105	26	9	35
28	80	-	80	10	-	10	81	40	121	50	13	63
29	80	40	120	80	30	110	20	12	32	52	13	65
30	60	60	120	40	40	80	28	12	40	49	24	73
31	20	80	100	30	20	50	16	8	24	40	40	80
32	40	90	130	-	70	70	32	4	36	25	64	89
33	10	60	70	10	70	80	12	4	16	21	101	122
34	10	50	60	-	180	180	44	20	64	8	102	110
35	-	60	60	-	80	80	24	8	32	6	101	107
36	-	-	-	-	100	100	57	28	85	7	67	74
37	-	-	-	-	50	50	53	32	85	6	62	68
38	-	10	10	-	20	20	12	12	24	2	35	37
39	-	10	10	-	10	10	20	24	44	2	13	15
40	-	-	-	-	-	-	4	16	20	2	7	9
41	-	-	-	-	-	-	4	8	12	-	2	2
42	-	20	20	-	-	-	-	-	-	-	1	1
43	-	-	-	-	-	-	-	8	8	-	-	-
44	-	10	10	-	-	-	-	8	8	-	-	-
45	-	-	-	-	-	-	-	-	-	-	-	-
46	-	-	-	-	-	-	-	-	-	-	-	-
47	-	10	10	-	-	-	-	-	-	-	-	-
48	-	-	-	-	-	-	-	-	-	-	-	-
49	-	-	-	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-	-	-	-
51	-	-	-	-	-	-	-	-	-	-	-	-
52	-	10	10	-	-	-	-	-	-	-	-	-
TOTAL 0/00	420	580	1000	240	760	1000	707	292	999	336	664	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-	134	-	-	-
NUMBER OF SAMPLES	-	-	1	-	-	1	-	-	1	-	-	-
NUMBER OF FISH MEASURED	42	58	100	24	76	100	175	73	248	-	-	-
MEAN LENGTH (CM)	28.83	32.66	31.05	28.71	32.88	31.88	-	-	31.0	29.65	33.89	32.47
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	-	0.34	0.682	0.704	0.697
TOTAL WEIGHT LANDED (TONS)	-	-	86	-	-	864	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	2.5	-	-	2.5	-	-	3½	-	-	110 ²⁾
RANGE OF DEPTHS (FM)	-	-	140-200	-	-	200-225	-	-	180-190	-	-	225

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

2) (MM)

TABLE 74 LENGTH FREQUENCIES - REDFISH¹⁾ - 4R - 1963 (FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)					
CATCHES/LANDINGS	LANDINGS					
MONTH	JULY			OCTOBER		
COUNTRY	CANADA (MARITIMES)			UNITED STATES		
SPECIES OR TYPE						
SEX	00	00	Tot.	00	00	Tot.
TONNAGE	51-150			73-440		
15	-	-	-	3	-	3
16	-	-	-	1	-	1
17	-	-	-	7	1	8
18	-	-	-	11	1	12
19	4	-	4	19	7	26
20	22	4	26	27	3	30
21	4	4	8	59	24	83
22	18	7	25	72	46	118
23	29	43	72	89	62	151
24	51	43	94	62	70	132
25	76	72	148	37	37	74
26	47	58	105	24	44	68
27	43	65	108	19	20	39
28	36	29	65	33	10	43
29	36	22	58	43	9	52
30	14	40	54	36	11	47
31	18	22	40	13	13	26
32	18	11	29	13	14	27
33	14	4	18	9	13	22
34	22	18	40	1	10	11
35	7	14	21	1	9	10
36	11	25	36	1	3	4
37	7	11	18	3	1	4
38	-	25	25	-	4	4
39	-	7	7	-	3	3
40	-	-	-	-	1	1
TOTAL 0/00	477	524	1001	583	416	999
SERIAL NUMBERS	-	-	132	-	-	-
NUMBER OF SAMPLES	-	-	1	-	-	7
NUMBER OF FISH MEASURED	132	145	277	407	292	699
MEAN LENGTH (CM)	-	-	27.7	24.50	25.79	25.04
MEAN WEIGHT (KG)	-	-	0.32	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	1044
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	4	-	-	2.5
RANGE OF DEPTHS (FM)	-	-	120	-	-	100-160

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 74
(CONT'D)LENGTH FREQUENCIES - REDFISH¹⁾ - 4R - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
CATCHES/LANDINGS	LANDINGS								
MONTH	NOVEMBER			NOVEMBER			DECEMBER		
COUNTRY	UNITED STATES			CANADA (MARITIMES)			UNITED STATES		
SPECIES OR TYPE									
SEX	00'	00'	TOT.	00'	00'	TOT.	00'	00'	TOT.
TONNAGE	73-440			151-500			73-440		
14	2	-	2	-	-	-	-	-	-
15	2	-	2	-	-	-	10	-	10
16	7	2	9	-	-	-	7	3	10
17	6	-	6	-	-	-	3	7	10
18	19	4	23	-	-	-	13	10	23
19	31	9	40	-	-	-	30	10	40
20	31	7	38	12	-	12	27	3	30
21	54	26	80	4	-	4	37	20	57
22	64	31	95	19	-	19	40	23	63
23	78	64	142	23	-	23	57	30	87
24	60	63	123	119	-	119	97	73	170
25	34	40	74	138	12	150	100	87	187
26	13	16	29	196	27	223	50	83	133
27	16	11	27	108	42	150	30	50	80
28	24	13	37	31	19	50	7	33	40
29	21	7	28	-	4	4	3	3	6
30	33	17	50	-	-	-	3	-	3
31	9	30	39	-	-	-	3	3	6
32	11	36	47	-	-	-	3	7	10
33	3	24	27	19	-	19	7	7	14
34	4	30	34	35	12	47	3	7	10
35	1	20	21	19	12	31	-	3	3
36	3	10	13	15	7	22	-	-	-
37	-	3	3	7	27	34	-	-	-
38	-	3	3	4	38	42	-	-	-
39	-	-	-	-	15	15	-	7	7
40	-	2	2	-	23	23	-	-	-
41	1	-	1	-	12	12	-	-	-
42	1	-	1	-	3	3	-	-	-
43	-	1	1	-	-	-	-	-	-
47	1	-	1	-	-	-	-	-	-
52	-	1	1	-	-	-	-	-	-
53	-	-	-	-	-	-	-	-	-
54	-	-	-	-	-	-	-	-	-
55	-	1	1	-	-	-	-	-	-
TOTAL 0/00	529	471	1000	749	253	1002	530	469	999
SERIAL NUMBERS	-	-	-	-	-	133	-	-	-
NUMBER OF SAMPLES	-	-	7	-	-	1	-	-	3
NUMBER OF FISH MEASURED	371	329	700	194	66	260	159	141	300
MEAN LENGTH (CM)	23.87	27.23	25.45	-	-	28.3	23.51	25.21	24.31
MEAN WEIGHT (KG)	-	-	-	-	-	0.29	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	1029	-	-	-	-	-	663
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	2.5	-	-	4	-	-	2.5
RANGE OF DEPTHS (FM)	-	-	115-160	-	-	125-140	-	-	115-165

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 75

LENGTH FREQUENCIES - REDFISH¹⁾ - 4S - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
	CATCHES/LANDINGS			LANDINGS			LANDINGS		
MONTH	JULY			JULY			AUGUST		
COUNTRY	CANADA (MARITIMES)						UNITED STATES		
SPECIES OR TYPE									
SEX	♂	♀	TOT.	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	51-150			151-500			73-440		
19	-	-	-	12	-	12	-	-	-
20	-	-	-	8	-	8	-	-	-
21	-	-	-	16	4	20	-	-	-
22	-	-	-	20	4	24	20	20	40
23	-	10	10	65	8	73	50	50	100
24	5	5	10	102	25	127	50	70	120
25	-	5	5	138	37	175	50	70	120
26	-	5	5	65	16	81	10	40	50
27	10	10	20	25	8	33	30	50	80
28	-	-	-	37	4	41	10	10	20
29	-	-	-	45	8	53	40	30	70
30	5	-	5	37	25	62	30	40	70
31	10	-	10	25	8	33	10	50	60
32	10	15	25	20	16	36	30	50	80
33	20	5	25	16	29	45	30	40	70
34	25	25	50	8	25	33	10	60	70
35	50	15	65	16	29	45	20	-	20
36	60	35	95	12	20	32	-	20	20
37	70	65	135	8	16	24	10	-	10
38	15	50	65	-	20	20	-	-	-
39	15	105	120	-	12	12	-	-	-
40	-	100	100	-	8	8	-	-	-
41	5	115	120	-	4	4	-	-	-
42	-	65	65	-	-	-	-	-	-
43	-	25	25	-	-	-	-	-	-
44	-	30	30	-	-	-	-	-	-
45	-	10	10	-	-	-	-	-	-
46	-	5	5	-	-	-	-	-	-
TOTAL 0/00	300	700	1000	675	326	1001	400	600	1000
SERIAL NUMBERS	-	-	127	-	-	128	-	-	-
NUMBER OF SAMPLES	-	-	1	-	-	1	-	-	1
NUMBER OF FISH MEASURED	60	140	200	-	-	246	40	60	100
MEAN LENGTH (CM)	-	-	37.6	-	-	28.1	27.80	28.32	28.11
MEAN WEIGHT (KG)	-	-	0.89	-	-	0.33	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-	-	-	680
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	3/2	-	-	3 1/8	-	-	2.5
RANGE OF DEPTHS (FM)	-	-	100-125	-	-	135	-	-	110-115

- 1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 75
(CONT'D)LENGTH FREQUENCIES - REDFISH¹⁾ - 4S - 1963(FREQUENCIES IN ⁰/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)											
	LANDINGS											
CATCHES/LANDINGS	SEPTEMBER			SEPTEMBER			OCTOBER			OCTOBER		
MONTH	UNITED STATES			CANADA (MARITIMES)			UNITED STATES			UNITED STATES		
COUNTRY	UNITED STATES			CANADA (MARITIMES)			UNITED STATES			UNITED STATES		
SPECIES OR TYPE												
SEX	♂	♀	TOT.	♂	♀	TOT.	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	73-440			151-500			51-150			73-440		
17	10	-	10	-	-	-	-	-	-	-	-	-
18	20	10	30	-	-	-	-	-	-	-	-	-
19	10	10	20	16	-	16	-	-	-	-	-	-
20	-	20	20	8	-	8	-	-	-	40	-	40
21	10	-	10	16	-	16	-	-	-	40	20	60
22	10	-	10	33	-	33	-	-	-	40	10	50
23	40	20	60	53	4	57	-	5	5	50	90	140
24	120	60	180	61	65	126	5	5	10	10	20	30
25	190	100	290	172	61	233	5	5	10	20	30	50
26	30	130	160	163	102	265	5	5	10	50	20	70
27	60	70	130	33	82	115	-	5	5	10	30	40
28	-	30	30	21	25	46	-	5	5	90	-	90
29	-	-	-	4	-	4	-	-	-	20	10	30
30	10	-	10	-	-	-	5	-	5	-	30	30
31	-	-	-	4	-	4	20	-	20	10	80	90
32	-	-	-	-	-	-	45	-	45	10	70	80
33	-	-	-	4	-	4	55	-	55	10	60	70
34	-	-	-	12	-	12	75	-	75	-	80	80
35	-	20	20	-	4	4	80	5	85	-	30	30
36	-	20	20	-	4	4	95	5	100	-	10	10
37	-	-	-	8	21	29	65	35	100	-	10	10
38	-	-	-	-	12	12	35	30	65	-	-	-
39	-	-	-	-	4	4	10	40	50	-	-	-
40	-	-	-	-	4	4	-	100	100	-	-	-
41	-	-	-	-	4	4	-	85	85	-	-	-
42	-	-	-	-	-	-	10	85	95	-	-	-
43	-	-	-	-	-	-	-	40	40	-	-	-
44	-	-	-	-	-	-	-	30	30	-	-	-
45	-	-	-	-	-	-	-	-	-	-	-	-
46	-	-	-	-	-	-	-	-	-	-	-	-
47	-	-	-	-	-	-	-	5	5	-	-	-
TOTAL ⁰ /00	510	490	1000	608	392	1000	510	490	1000	400	600	1000
SERIAL NUMBERS	-	-	-	-	-	130	-	-	129	-	-	-
NUMBER OF SAMPLES	-	-	1	-	-	1	-	-	1	-	-	1
NUMBER OF FISH MEASURED	51	49	100	-	-	245	102	98	200	40	60	100
MEAN LENGTH (CM)	24.31	25.92	25.10	-	-	26.0	-	-	37.2	25.10	29.43	27.70
MEAN WEIGHT (KG)	-	-	-	-	-	0.24	-	-	0.83	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	349	-	-	-	-	-	-	-	-	249
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	2.5	-	-	4 $\frac{1}{2}$	-	-	4 $\frac{1}{2}$	-	-	2.5
RANGE OF DEPTHS (FM)	-	-	135-140	-	-	180-220	-	-	100-150	-	-	110-120

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 76

LENGTH FREQUENCIES - REDFISH¹⁾ - 4T - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
CATCHES/LANDINGS	LANDINGS								
MONTH	AUGUST			AUGUST			NOVEMBER		
COUNTRY	CANADA (MARITIMES)			UNITED STATES					
SPECIES OR TYPE									
SEX	♂	♀	Tot.	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	51-150			73-440					
17	-	-	-	-	-	-	10	-	10
18	-	-	-	5	5	10	-	-	-
19	-	-	-	10	5	15	-	20	20
20	-	5	5	10	-	10	-	-	-
21	15	-	15	10	5	15	-	20	20
22	55	5	60	35	30	65	20	-	20
23	20	15	35	85	50	135	30	10	40
24	20	50	70	130	55	185	40	10	50
25	75	35	110	75	70	145	80	20	100
26	90	85	175	45	70	115	60	40	100
27	30	85	115	25	35	60	90	40	130
28	-	25	25	20	5	25	20	20	40
29	5	5	10	10	5	15	80	20	100
30	-	-	-	5	15	20	60	20	80
31	-	-	-	15	10	25	10	20	30
32	-	-	-	5	10	15	-	20	20
33	20	-	20	5	20	25	10	50	60
34	15	5	20	20	15	35	10	60	70
35	70	10	80	25	15	40	-	10	10
36	50	10	60	5	-	5	-	40	40
37	40	40	80	10	5	15	-	20	20
38	15	15	30	-	5	5	-	10	10
39	5	20	25	-	10	10	-	20	20
40	5	25	30	-	-	-	-	-	-
41	-	15	15	-	-	-	10	-	10
42	-	20	20	-	10	10	-	-	-
TOTAL 0/00	530	470	1000	550	450	1000	530	470	1000
SERIAL NUMBERS	-	-	131	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	1	-	-	2	-	-	1
NUMBER OF FISH MEASURED	106	94	200	110	90	200	59	47	100
MEAN LENGTH (CM)	-	-	29.6	27.27	27.07	27.18	27.02	30.36	28.59
MEAN WEIGHT (KG)	-	-	0.28	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	142	-	-	11
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	4 5/8	-	-	2.5	-	-	2.5
RANGE OF DEPTHS (FM)	-	-	100-125	-	-	135-200	-	-	180-200

- 1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 77

LENGTH FREQUENCIES - REDFISH¹⁾ - 4VN - 1969(FREQUENCIES IN ⁰/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)		
CATCHES/LANDINGS	LANDINGS AFTER DISCARD		
MONTH	MARCH		
COUNTRY	CANADA (NEWFOUNDLAND)		
SPECIES OR TYPE	"MENTELLA"		
SEX	00	00 -	TOT.
TONNAGE	151-500		
23	7	20	27
24	7	7	14
25	27	27	54
26	55	14	69
27	116	21	137
28	62	34	96
29	21	41	62
30	34	55	89
31	21	67	88
32	20	55	75
33	-	27	27
34	14	27	41
35	-	55	55
36	14	14	28
37	7	21	28
38	-	14	14
39	7	7	14
40	-	14	14
41	-	7	7
42	-	14	14
43	-	7	7
44	-	20	20
45	-	20	20
TOTAL ⁰ /00	412	588	1000
SERIAL NUMBERS	-	-	-
NUMBER OF SAMPLES	-	-	1
NUMBER OF FISH MEASURED	-	-	146
MEAN LENGTH (CM)	-	-	30.93
MEAN WEIGHT (KG)	-	-	0.51
TOTAL WEIGHT LANDED (TONS)	-	-	81
ESTIMATED NUMBER LANDED	-	-	158011
MESH SIZE (INCHES)	-	-	42)
RANGE OF DEPTHS (FM)	-	-	160

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

2) MANILLA

TABLE 78

LENGTH FREQUENCIES - REDFISH¹⁾ - 4V - 1963

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
CATCHES/LANDINGS	LANDINGS								
MONTH	MAY			JUNE			JULY		
COUNTRY	UNITED STATES								
SPECIES OR TYPE									
SEX	♂	♀	TOT.	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	73-440								
16	-	-	-	2	2	2	-	-	-
17	-	-	-	-	-	-	-	-	-
18	-	-	-	2	-	2	-	-	-
19	-	-	-	-	-	-	-	-	-
20	-	-	-	20	2	22	5	-	5
21	-	-	-	2	2	4	10	-	10
22	-	-	-	20	5	25	12	8	20
23	-	-	-	12	10	22	25	8	33
24	-	-	-	23	15	38	28	15	43
25	-	-	-	38	23	61	42	18	60
26	10	10	20	40	30	70	42	25	67
27	40	-	40	60	30	90	82	15	97
28	10	-	10	50	33	83	88	27	115
29	60	10	70	35	40	75	38	27	65
30	50	-	50	30	38	68	40	35	75
31	80	10	90	38	58	96	28	48	76
32	80	30	110	33	55	88	33	42	75
33	20	60	80	18	45	63	8	42	50
34	40	110	150	5	40	45	8	42	50
35	20	80	100	5	35	40	8	40	48
36	-	70	70	-	30	30	12	30	42
37	-	40	40	-	18	18	10	33	43
38	-	50	50	-	12	12	-	18	18
39	-	10	10	2	18	20	2	8	10
40	-	60	60	-	10	10	-	-	-
41	-	30	30	-	5	5	-	-	-
42	-	-	-	-	8	8	-	-	-
43	-	10	10	-	2	2	-	-	-
44	-	10	10	-	-	-	-	-	-
53	-	-	-	2	-	2	-	-	-
TOTAL ‰	410	590	1000	437	566	1003	521	481	1002
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	1	-	-	4	-	-	4
NUMBER OF FISH MEASURED	41	59	100	175	225	400	208	192	400
MEAN LENGTH (CM)	30.78	35.81	33.75	27.60	31.38	29.73	27.95	31.51	29.66
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	788	-	-	1795	-	-	1524
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	2.5	-	-	2.5	-	-	2.5
RANGE OF DEPTHS (FM)	-	-	200-215	-	-	75-215	-	-	80-210

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 78
(CONT'D)LENGTH FREQUENCIES - REDFISH¹⁾ - 4V - 1963

(FREQUENCIES IN %/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
	CATCHES/LANDINGS			LANDINGS			LANDINGS		
MONTH	AUGUST			OCTOBER			NOVEMBER		
COUNTRY	UNITED STATES								
SPECIES OR TYPE									
SEX	♂	♀	TOT.	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	73-440								
18	-	-	-	-	-	-	10	10	20
19	-	-	-	-	-	-	40	10	50
20	-	-	-	-	-	-	50	60	110
21	-	-	-	-	-	-	90	50	140
22	-	-	-	-	-	-	40	30	70
23	-	-	-	-	-	-	100	40	140
24	-	-	-	10	-	10	100	50	150
25	13	-	13	20	-	20	40	60	100
26	53	3	56	30	40	70	20	60	80
27	47	13	60	80	20	100	10	20	30
28	87	13	100	150	80	230	10	50	60
29	90	13	103	60	20	80	-	10	10
30	60	43	103	50	-	50	-	20	20
31	33	27	60	10	90	100	-	10	10
32	13	63	76	10	50	60	-	-	-
33	23	90	113	-	90	90	-	-	-
34	10	57	67	-	80	80	-	-	-
35	-	80	80	-	50	50	-	10	10
36	7	57	64	-	30	30	-	-	-
37	-	37	37	-	10	10	-	-	-
38	-	27	27	-	-	-	-	-	-
39	-	20	20	-	20	20	-	-	-
40	-	7	7	-	-	-	-	-	-
41	-	10	10	-	-	-	-	-	-
42	-	-	-	-	-	-	-	-	-
43	-	-	-	-	-	-	-	-	-
44	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
46	-	3	3	-	-	-	-	-	-
TOTAL %/00	436	563	999	420	580	1000	510	490	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	3	-	-	1	-	-	1
NUMBER OF FISH MEASURED	131	169	300	42	58	100	51	49	100
MEAN LENGTH (CM)	28.92	33.88	31.71	27.98	31.83	30.21	22.51	24.39	23.43
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	1337	-	-	161	-	-	333
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	2.5	-	-	2.5	-	-	2.5
RANGE OF DEPTHS (FM)	-	-	140-210	-	-	140-200	-	-	85-90

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 79

LENGTH FREQUENCIES - REDFISH¹⁾ - 4W - 1963(FREQUENCIES IN ⁰/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
CATCHES / LANDINGS	LANDINGS								
MONTH	JANUARY			FEBRUARY			MARCH		
COUNTRY	UNITED STATES								
SPECIES OR TYPE									
SEX	♂	♀	TOT.	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	73-440								
15	10	-	10	-	-	-	5	-	5
16	10	-	10	20	-	20	-	-	-
17	10	10	20	20	-	20	15	-	15
18	15	5	20	30	-	30	15	10	25
19	45	15	60	10	50	60	20	15	35
20	70	5	75	60	-	60	45	15	60
21	50	25	75	90	50	140	40	35	75
22	80	35	115	100	50	150	40	20	60
23	60	45	105	60	40	100	45	40	85
24	95	75	170	50	70	120	70	40	110
25	25	55	80	30	90	120	70	10	80
26	5	45	50	-	60	60	35	30	65
27	-	65	65	10	20	30	50	55	105
28	10	55	65	-	30	30	20	60	80
29	5	20	25	-	20	20	5	50	55
30	-	5	5	-	10	10	-	40	40
31	-	10	10	-	-	-	-	30	30
32	-	10	10	-	-	-	-	20	20
33	-	15	15	-	-	-	-	25	25
34	-	5	5	-	-	-	-	20	20
35	-	5	5	-	-	-	-	-	-
36	-	5	5	-	-	-	-	10	10
TOTAL ⁰ /00	490	510	1000	480	520	1000 ²⁾	475	525	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	2	-	-	1	-	-	2
NUMBER OF FISH MEASURED	98	102	200	48	52	100	95	105	200
MEAN LENGTH (CM)	21.74	25.48	23.65	21.42	24.37	22.95	23.22	26.86	25.13
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	438	-	-	583	-	-	1334
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	2.5	-	-	2.5	-	-	2.5
RANGE OF DEPTHS (FM)	-	-	65-80	-	-	72-80	-	-	70-170

- 1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.
- 2) 3 FISH NOT ACCOUNTED FOR IN CALCULATIONS

TABLE 79
(CONT'D)LENGTH FREQUENCIES - REDFISH¹⁾ - 4W - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
CATCHES/LANDINGS	LANDINGS								
MONTH	APRIL			MAY			JUNE		
COUNTRY	UNITED STATES								
SPECIES OR TYPE									
SEX	00	99	TOT.	00	99	TOT.	00	99	TOT.
TONNAGE	73-440								
15	-	-	-	-	-	-	3	-	3
16	-	-	-	4	4	8	7	3	10
17	-	-	-	4	1	5	3	-	3
18	10	10	20	15	9	24	17	10	27
19	13	20	33	32	22	54	23	3	26
20	17	23	40	55	25	80	20	43	63
21	23	27	50	56	36	92	37	17	54
22	57	53	110	70	31	101	50	23	73
23	53	57	110	80	53	133	50	20	70
24	64	53	117	44	62	106	43	17	60
25	51	70	121	42	49	91	67	53	120
26	53	43	96	28	46	74	50	30	80
27	33	57	90	10	65	75	50	37	87
28	57	60	117	8	39	47	33	37	70
29	30	17	47	1	44	45	20	20	40
30	23	20	43	-	22	22	10	37	47
31	-	3	3	-	19	19	10	37	47
32	3	-	3	-	4	4	3	13	16
33	-	-	-	-	11	11	10	20	30
34	-	-	-	-	5	5	-	13	13
35	-	-	-	-	2	2	-	10	10
36	-	-	-	-	1	1	-	30	30
37	-	-	-	-	1	1	-	17	17
38	-	-	-	-	-	-	-	-	-
39	-	-	-	-	-	-	-	3	3
TOTAL 0/00	487	513	1000	449	551	1000	506	493	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	3	-	-	8	-	-	3
NUMBER OF FISH MEASURED	146	154	300	359	441	800	152	148	300
MEAN LENGTH (CM)	24.75	24.58	24.66	22.32	25.23	23.92	24.26	27.48	25.85
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	1050	-	-	1729	-	-	1034
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	2.5	-	-	2.5	-	-	2.5
RANGE OF DEPTHS (FM)	-	-	70-90	-	-	55-90	-	-	70-105

- 1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 79
(CONT'D)LENGTH FREQUENCIES - REDFISH¹⁾ - 4W - 1969

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
CATCHES/LANDINGS	LANDINGS								
MONTH	JULY			SEPTEMBER			OCTOBER		
COUNTRY	UNITED STATES								
SPECIES OR TYPE									
SEX	00	00	TOT.	00	00	TOT.	00	00	TOT.
TONNAGE	73-440								
14	-	-	-	10	-	10	-	-	-
15	-	-	-	-	10	10	-	-	-
16	-	-	-	-	-	-	-	-	-
17	5	-	5	-	10	10	-	-	-
18	-	5	5	10	-	10	-	-	-
19	5	5	10	-	40	40	-	-	-
20	15	20	35	40	-	40	20	10	30
21	40	30	70	10	20	30	-	-	-
22	60	25	85	80	60	140	20	20	40
23	65	20	85	90	80	170	20	20	40
24	70	45	115	110	60	170	30	-	30
25	65	40	105	50	90	140	60	20	80
26	30	25	55	20	40	60	40	10	50
27	60	60	120	-	90	90	50	10	60
28	70	30	100	-	40	40	70	20	90
29	20	25	45	-	30	30	30	40	70
30	35	25	60	-	-	-	60	30	90
31	15	15	30	-	10	10	-	10	10
32	10	15	25	-	10	10	-	100	100
33	-	20	20	-	-	-	10	80	90
34	5	-	5	-	-	-	-	30	30
35	-	10	10	-	-	-	-	40	40
36	-	5	5	-	-	-	-	40	40
37	-	-	-	-	-	-	-	80	80
38	-	-	-	-	-	-	-	20	20
39	-	-	-	-	-	-	-	10	10
TOTAL 0/00	570	430	1000 ²⁾	420	580	1000 ³⁾	410	590	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	2	-	-	1	-	-	1
NUMBER OF FISH MEASURED	114	86	200	42	58	100	41	59	100
MEAN LENGTH (CM)	25.24	26.40	25.74	22.79	24.48	23.77	26.51	31.98	29.74
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	529	-	-	253	-	-	127
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	2.5	-	-	2.5	-	-	2.5
RANGE OF DEPTHS (FM)	-	-	75-110	-	-	75-90	-	-	100-110

- 1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.
- 2) 2 FISH NOT ACCOUNTED FOR IN CALCULATIONS
- 3) ONE EXTRA FISH INCLUDED IN CALCULATIONS

TABLE 80

LENGTH FREQUENCIES - REDFISH¹⁾ - 4X - 1963(FREQUENCIES IN ⁰/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
	CATCHES/LANDINGS			LANDINGS					
MONTH	JANUARY			FEBRUARY			MARCH		
COUNTRY	UNITED STATES								
SPECIES OR TYPE									
SEX	00'	00'	TOT.	00'	00'	TOT.	00'	00'	TOT.
TONNAGE	51-440								
13	10	-	10	-	-	-	-	-	-
14	-	-	-	5	-	5	5	-	5
15	-	-	-	-	-	-	5	-	5
16	10	10	20	5	-	5	-	-	-
17	10	70	80	20	-	20	35	5	40
18	90	100	190	40	25	65	25	20	45
19	80	120	200	60	60	120	90	25	115
20	120	80	200	55	25	80	75	30	105
21	120	30	150	110	15	125	80	20	100
22	40	30	70	75	85	160	125	45	170
23	20	30	50	45	80	125	60	45	105
24	-	20	20	50	95	145	90	50	140
25	-	10	10	5	55	60	20	40	60
26	-	-	-	-	30	30	10	30	40
27	-	-	-	-	25	25	-	30	30
28	-	-	-	-	25	25	-	15	15
29	-	-	-	-	5	5	5	15	20
30	-	-	-	-	5	5	-	5	5
TOTAL ⁰ /00	500	500	1000	470	530	1000	625	375	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	1	-	-	2	-	-	2
NUMBER OF FISH MEASURED	50	50	100	94	106	200	125	75	200
MEAN LENGTH (CM)	19.72	19.48	19.60	20.79	23.06	22.00	21.11	23.36	21.95
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	412	-	-	486	-	-	539
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	2.5	-	-	2.5	-	-	2.5
RANGE OF DEPTHS (FM)	-	-	90-105	-	-	70-90	-	-	72-90

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 80
(CONT'D)LENGTH FREQUENCIES - REDFISH¹⁾ - 4X - 1963

(FREQUENCIES IN %/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
CATCHES/LANDINGS	LANDINGS								
MONTH	MAY			JUNE			JULY		
COUNTRY	UNITED STATES								
SPECIES OR TYPE									
SEX	00'	00	TOT.	00'	00	TOT.	00'	00	TOT.
TONNAGE	51-440								
11	-	-	-	1	-	1	-	-	-
12	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-
14	-	-	-	5	-	5	-	-	-
15	2	-	2	3	1	4	-	-	-
16	5	-	5	3	2	5	-	-	-
17	5	8	13	4	1	5	-	-	-
18	2	2	4	15	3	18	-	-	-
19	22	20	42	21	5	26	-	-	-
20	38	40	78	41	18	59	6	4	10
21	65	20	85	58	27	85	6	6	12
22	57	20	77	43	33	76	26	14	40
23	48	38	86	39	31	70	18	12	30
24	60	20	80	44	22	66	26	28	54
25	18	28	46	38	28	66	46	26	72
26	42	32	74	27	34	61	64	36	100
27	35	30	65	27	21	48	36	36	72
28	30	42	72	30	19	49	46	60	106
29	18	28	46	35	24	59	50	60	110
30	13	35	48	42	15	57	28	46	74
31	5	35	40	36	34	70	10	48	58
32	-	28	28	20	27	47	4	48	52
33	-	28	28	8	20	28	-	70	70
34	-	32	32	1	28	29	-	46	46
35	-	28	28	3	26	29	-	44	44
36	-	10	10	-	16	16	2	30	32
37	-	5	5	-	7	7	-	12	12
38	-	2	2	-	4	4	-	6	6
39	-	2	2	-	8	8	-	-	-
40	-	2	2	-	2	2	-	-	-
TOTAL %/00	465	535	1000	544	456	1000	368	632	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	4	-	-	10	-	-	5
NUMBER OF FISH MEASURED	186	214	400	544	456	1000	184	316	500
MEAN LENGTH (CM)	23.65	27.47	25.69	24.82	27.97	26.26	26.44	30.08	28.74
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	1495	-	-	1845	-	-	1476
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	2.5	-	-	2.5	-	-	2.5
RANGE OF DEPTHS (FM)	-	-	75-125	-	-	81-200	-	-	98-135

- 1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 80
(CONT'D)LENGTH FREQUENCIES - REDFISH¹⁾ - 4X - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
	CATCHES/LANDINGS			LANDINGS			LANDINGS		
MONTH	AUGUST			SEPTEMBER			OCTOBER		
COUNTRY	UNITED STATES								
SPECIES OR TYPE									
SEX	00	00	TOT.	00	00	TOT.	00	00	TOT.
TONNAGE	51-440								
14	-	-	-	-	-	-	10	-	10
15	-	-	-	-	-	-	-	10	10
16	-	-	-	-	-	-	-	-	-
17	2	-	2	-	-	-	10	-	10
18	-	-	-	-	-	-	-	-	-
19	2	2	4	10	30	40	-	-	-
20	10	4	14	-	20	20	-	10	10
21	12	14	26	60	20	80	60	50	110
22	22	10	32	30	20	50	100	50	150
23	20	16	36	80	50	130	80	20	100
24	26	12	38	30	80	110	120	50	170
25	12	8	20	20	60	80	50	80	130
26	16	14	30	10	50	60	10	50	60
27	20	10	30	20	40	60	10	50	60
28	46	10	56	10	80	90	-	40	40
29	56	36	92	-	40	40	-	60	60
30	58	38	96	10	50	60	-	60	60
31	46	42	88	-	10	10	-	20	20
32	24	72	96	-	60	60	-	-	-
33	2	114	116	-	20	20	-	-	-
34	-	94	94	-	40	40	-	-	-
35	-	92	92	-	40	40	-	-	-
36	-	24	24	-	-	-	-	-	-
37	-	10	10	-	10	10	-	-	-
38	1	2	3	-	-	-	-	-	-
TOTAL 0/00	375	624	999	280	720	1000	450	550	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	5	-	-	1	-	-	1
NUMBER OF FISH MEASURED	188	312	500	28	72	100	45	55	100
MEAN LENGTH (CM)	27.46	31.54	30.01	23.39	27.36	26.25	22.82	25.62	24.36
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	1299	-	-	732	-	-	213
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	2.5	-	-	2.5	-	-	2.5
RANGE OF DEPTHS (FM)	-	-	85-150	-	-	86-90	-	-	80

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 81

LENGTH FREQUENCIES - REDFISH¹⁾ - 5Y - 1963

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
CATCHES/LANDINGS	LANDINGS								
MONTH	JANUARY			FEBRUARY			MARCH		
COUNTRY	UNITED STATES								
SPECIES OR TYPE									
SEX	♂	♀	TOT.	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	0-215								
13	-	-	-	10	-	10	-	-	-
14	-	-	-	-	-	-	5	-	5
15	2	2	4	10	10	20	5	-	5
16	17	8	25	-	10	10	-	-	-
17	25	35	60	20	10	30	35	5	40
18	23	17	40	50	-	50	25	20	45
19	35	17	52	40	20	60	90	25	115
20	60	33	93	20	10	30	75	30	105
21	45	23	68	10	10	20	80	20	100
22	38	43	81	10	10	20	125	45	170
23	30	23	53	90	30	120	60	45	105
24	33	30	63	90	20	110	90	50	140
25	40	15	55	50	30	80	20	40	60
26	38	17	55	40	40	80	10	30	40
27	30	23	53	20	60	80	-	30	30
28	45	23	68	40	80	120	-	15	15
29	50	30	80	20	30	50	5	15	20
30	23	17	40	-	30	30	-	5	5
31	2	28	30	-	50	50	-	-	-
32	8	12	20	-	-	-	-	-	-
33	-	20	20	-	-	-	-	-	-
34	-	17	17	-	10	10	-	-	-
35	-	17	17	-	10	10	-	-	-
36	-	8	8	-	10	10	-	-	-
TOTAL ‰	544	458	1002	520	480	1000	625	375	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	4	-	-	1	-	-	2
NUMBER OF FISH MEASURED	217	183	400	52	48	100	125	75	200
MEAN LENGTH (CM)	23.50	25.23	24.29	22.83	26.42	24.55	21.11	23.36	21.95
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	501	-	-	276	-	-	599
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	2.5	-	-	2.5	-	-	2.5
RANGE OF DEPTHS (FM)	-	-	50-95	-	-	70-80	-	-	72-90

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 81
(CONT'D)LENGTH FREQUENCIES - REDFISH¹⁾ - 5Y - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
CATCHES/LANDINGS	LANDINGS								
MONTH	APRIL			MAY			JUNE		
COUNTRY	UNITED STATES								
SPECIES OR TYPE									
SEX	♂	♀	TOT.	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	0-215								
13	5	-	5	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-
15	15	-	15	-	-	-	-	-	-
16	10	-	10	3	2	5	-	-	-
17	25	30	55	5	1	6	-	-	-
18	35	-	35	9	3	12	2	-	2
19	10	20	30	12	5	17	2	-	2
20	30	20	50	20	6	26	10	5	15
21	65	20	85	32	14	46	28	10	38
22	55	50	105	49	24	73	23	5	28
23	90	45	135	52	36	88	33	15	48
24	95	55	150	65	34	99	43	25	68
25	35	55	90	74	42	116	75	30	105
26	30	25	55	60	35	95	40	8	48
27	35	30	65	44	57	101	68	25	93
28	15	40	55	29	39	68	75	55	130
29	-	10	10	30	41	71	55	18	73
30	5	25	30	16	36	52	50	40	90
31	5	5	10	10	31	41	12	48	60
32	-	-	-	4	20	24	12	35	47
33	-	-	-	5	18	23	2	48	50
34	-	-	-	-	8	8	-	25	25
35	-	-	-	-	12	12	-	42	42
36	-	10	10	-	6	6	-	18	18
37	-	-	-	-	3	3	-	8	8
38	-	-	-	-	4	4	-	10	10
39	-	-	-	-	2	2	-	2	2
40	-	-	-	-	1	1	-	-	-
41	-	-	-	-	2	2	-	-	-
TOTAL 0/00	560	440	1000	519	482	1001	530	472	1002
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	2	-	-	11	-	-	4
NUMBER OF FISH MEASURED	112	88	200	570	530	1100	212	188	400
MEAN LENGTH (CM)	22.40	24.17	23.18	24.65	27.41	25.98	26.28	30.03	28.04
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	280	-	-	1412	-	-	1076
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	2.5	-	-	2.5	-	-	2.5
RANGE OF DEPTHS (FM)	-	-	80-110	-	-	40-120	-	-	55-120

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 81
(CONT'D)LENGTH FREQUENCIES - REDFISH¹⁾ - 5Y - 1963

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
CATCHES/LANDINGS	LANDINGS								
MONTH	JULY			AUGUST			SEPTEMBER		
COUNTRY	UNITED STATES								
SPECIES OR TYPE									
SEX	♂	♀	TOT.	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	0-215								
13	-	-	-	-	5	5	-	-	-
14	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-
17	-	-	-	5	5	10	7	-	7
18	-	-	-	20	5	25	10	7	17
19	-	-	-	15	5	20	10	-	10
20	-	-	-	50	30	80	27	3	30
21	-	-	-	60	60	120	10	33	43
22	-	5	5	75	100	175	23	27	50
23	5	-	5	105	65	170	47	30	77
24	30	-	30	65	45	110	33	33	66
25	25	10	35	55	30	85	37	50	87
26	40	15	55	25	50	75	23	43	66
27	120	20	140	10	25	35	47	37	84
28	85	55	140	10	25	35	-	40	40
29	80	60	140	5	20	25	37	40	77
30	65	85	150	5	10	15	43	40	83
31	25	20	45	10	-	10	20	40	60
32	15	65	80	-	-	-	13	10	23
33	-	60	60	-	-	-	3	33	36
34	-	50	50	-	-	-	3	43	46
35	-	25	25	-	5	5	-	37	37
36	-	20	20	-	-	-	-	43	43
37	-	10	10	-	-	-	-	7	7
38	-	10	10	-	-	-	-	7	7
39	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	3	3
TOTAL ‰	490	510	1000	515	485	1000	393	606	999
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	2	-	-	2	-	-	3
NUMBER OF FISH MEASURED	98	102	200	103	97	200	118	182	300
MEAN LENGTH (CM)	27.85	31.07	29.49	22.90	23.60	23.24	25.47	28.71	27.44
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	874	-	-	524	-	-	446
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	2.5	-	-	2.5	-	-	2.5
RANGE OF DEPTHS (FM)	-	-	45-100	-	-	65-110	-	-	40-100

- 1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 82

LENGTH FREQUENCIES - REDFISH¹⁾ - 52 - 1963(FREQUENCIES IN ⁰/100 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
	CATCHES/LANDINGS			LANDINGS			LANDINGS		
MONTH	APRIL			MAY			JUNE		
COUNTRY	UNITED STATES								
SPECIES OR TYPE									
SEX	⁰⁰	⁹⁹	TOT.	⁰⁰	⁹⁹	TOT.	⁰⁰	⁹⁹	TOT.
TONNAGE	0-310								
16	3	-	3	-	-	-	-	-	-
17	3	-	3	-	2	2	-	-	-
18	20	-	20	5	2	7	-	3	3
19	10	10	20	25	-	25	7	-	7
20	27	30	57	8	10	18	13	7	20
21	57	27	84	15	18	33	27	7	34
22	60	33	93	45	18	63	17	13	30
23	47	40	87	40	15	55	37	17	54
24	63	53	116	65	20	85	50	30	80
25	53	37	90	40	28	68	50	27	77
26	27	30	57	38	23	61	47	40	87
27	23	60	83	65	23	88	27	64	91
28	33	33	66	45	23	68	33	50	83
29	17	63	80	45	30	75	67	50	117
30	10	17	27	20	45	65	30	33	63
31	7	23	30	30	45	75	20	33	53
32	-	10	10	15	30	45	3	23	26
33	-	10	10	5	30	35	3	27	30
34	-	17	17	2	43	45	-	27	27
35	-	14	14	-	20	20	-	30	30
36	-	3	3	2	20	22	-	27	27
37	-	14	14	-	15	15	-	33	33
38	-	10	10	-	18	18	-	10	10
39	-	3	3	-	12	12	-	10	10
40	-	3	3	-	2	2	-	3	3
41	-	-	-	-	-	-	-	-	-
42	-	-	-	-	-	-	-	3	3
TOTAL ⁰ /100	460	540	1000	510	492	1002	431	567	998
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	3	-	-	4	-	-	3
NUMBER OF FISH MEASURED	138	162	300	204	196	400	129	171	300
MEAN LENGTH (CM)	23.65	26.92	25.38	25.75	29.81	27.74	25.91	29.71	28.08
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	75	-	-	632	-	-	335
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	2.5	-	-	2.5	-	-	2.5
RANGE OF DEPTHS (FM)	-	-	80-110	-	-	42-120	-	-	85-115

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 82
(CONT'D)LENGTH FREQUENCIES - REDFISH¹⁾ - 52 - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
CATCHES/LANDINGS	LANDINGS								
MONTH	JULY			AUGUST			OCTOBER		
COUNTRY	UNITED STATES								
SPECIES OR TYPE									
SEX	♂	♀	TOT.	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	0-310								
17	5	-	5	-	10	10	-	-	-
18	-	-	-	30	10	40	-	-	-
19	15	5	20	20	20	40	-	-	-
20	20	20	40	120	40	160	-	-	-
21	15	15	30	60	60	120	-	-	-
22	10	20	30	90	90	180	-	-	-
23	15	20	35	80	110	190	-	-	-
24	45	30	75	30	40	70	-	-	-
25	65	15	80	70	50	120	-	-	-
26	130	30	160	-	20	20	-	-	-
27	45	50	95	-	30	30	20	-	20
28	25	100	125	-	10	10	30	-	30
29	10	60	70	-	-	-	40	-	40
30	-	30	30	-	-	-	10	10	20
31	5	50	55	-	10	10	-	40	40
32	-	15	15	-	-	-	-	60	60
33	-	50	50	-	-	-	-	80	80
34	-	30	30	-	-	-	-	130	130
35	-	25	25	-	-	-	-	140	140
36	-	15	15	-	-	-	-	110	110
37	-	10	10	-	-	-	-	150	150
38	-	5	5	-	-	-	-	130	130
39	-	-	-	-	-	-	-	50	50
TOTAL 0/00	405	595	1000	500	500	1000	100	900	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	2	-	-	1	-	-	1
NUMBER OF FISH MEASURED	81	119	200	50	50	100	10	90	100
MEAN LENGTH (CM)	24.93	28.66	27.15	21.71	22.86	22.29	28.40	35.36	34.66
MEAN WEIGHT (KG)	-	-	-	-	-	-	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	156	-	-	232	-	-	85
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	2.5	-	-	2.5	-	-	2.5
RANGE OF DEPTHS (FM)	-	-	81-90	-	-	100-105	-	-	85-90

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 83

AGE FREQUENCIES - REDFISH¹⁾ - 2J - 1963

(FREQUENCIES IN 0/00)

GEAR		OTTER TRAWL (EXPLORATORY)						
CATCHES/LANDINGS		CATCHES						
MONTH		MAY						
COUNTRY		U. S. S. R.						
SPECIES OR TYPE		"MENTELLA"						
TONNAGE		1800						
YEAR-CLASS	AGE	0/00 FREQUENCY			MEAN LENGTH			
		00	99	TOT.	00	99	TOT.	
1957	6	-	3	3	-	22.00	22.00	
1956	7	-	3	3	-	26.00	26.00	
1955	8	3	10	13	28.00	28.33	28.25	
1954	9	17	14	31	30.00	29.50	29.78	
1953	10	75	134	209	30.50	31.41	31.07	
1952	11	188	114	302	32.22	32.69	32.40	
1951	12	148	92	240	33.42	33.89	33.60	
1950	13	48	34	82	34.57	35.50	34.96	
1949	14	28	21	49	36.00	35.83	35.93	
1948	15	10	7	17	36.67	36.00	36.40	
1947	16	3	10	13	37.00	39.00	38.50	
1946	17	10	3	13	39.33	37.00	38.75	
1945	18	3	3	6	40.00	42.00	41.00	
1944	19	3	7	10	42.00	41.00	41.33	
1943	20	-	-	-	-	-	-	
1942	21	-	3	3	-	47.00	47.00	
1941	22	3	-	3	45.00	-	45.00	
1940	23	-	-	-	-	-	-	
1939	24	-	-	-	-	-	-	
1938	25	-	3	3	-	52.00	52.00	
TOTAL 0/00		539	461	1000				
SERIAL NUMBERS		-	-	-				
NUMBER OF SAMPLES		1	1	1				
NUMBER OF FISH AGED		158	135	293				
MEAN AGE		11.76	11.46	11.63				
MEAN WEIGHT (KG)		0.409	0.417	0.412				
TOTAL WEIGHT LANDED (TONS)		-	-	111				
ESTIMATED NUMBER LANDED		-	-	-				
MESH SIZE (MM)		-	-	110				
RANGE OF DEPTHS (FM)		-	-	265-280				

- 1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 84

AGE FREQUENCIES - REDFISH¹⁾ - 3K - 1963

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (EXPLORATORY)											
CATCHES/LANDINGS		CATCHES											
MONTH		MARCH						MAY					
COUNTRY		U. S. S. R.											
SPECIES OR TYPE		"MENTELLA"											
TONNAGE		1800											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1955	8	-	-	-	-	-	-	7	-	7	28.00	-	28.00
1954	9	-	-	-	-	-	-	-	6	6	-	29.00	29.00
1953	10	22	32	54	31.00	32.83	32.10	28	25	53	31.12	31.29	31.20
1952	11	22	-	22	32.00	-	32.00	50	39	89	31.86	33.27	32.48
1951	12	32	-	32	33.67	-	33.67	86	108	194	33.89	33.53	33.43
1950	13	91	22	113	34.12	35.00	34.29	89	43	132	34.28	35.17	34.57
1949	14	118	16	134	35.27	36.00	35.32	46	36	82	35.69	35.90	35.78
1948	15	112	32	144	36.29	37.50	36.55	68	18	86	36.32	38.40	36.75
1947	16	69	11	80	36.92	-	36.93	43	11	54	37.46	39.33	38.13
1946	17	48	22	70	37.68	42.00	39.07	6	21	27	38.50	39.83	39.50
1945	18	53	16	69	37.30	40.00	38.46	4	32	36	39.00	40.56	40.40
1944	19	22	16	38	38.25	42.67	40.14	11	32	43	-	41.55	41.00
1943	20	-	80	80	-	43.33	43.33	4	57	61	40.00	43.31	43.12
1942	21	-	63	63	-	44.00	44.00	-	65	65	-	44.39	44.39
1941	22	-	42	42	-	45.25	45.25	-	36	36	-	45.10	45.10
1940	23	5	22	27	40.00	46.75	45.40	-	21	21	-	46.17	46.17
1939	24	-	16	16	-	48.00	48.00	-	4	4	-	47.00	47.00
1938	25	-	11	11	-	49.00	49.00	4	-	4	48.00	-	48.00
1937	26	-	-	-	-	-	-	-	-	-	-	-	-
1936	27	-	5	5	-	51.00	51.00	-	-	-	-	-	-
TOTAL ‰		594	406	1000				446	554	1000			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		1	1	1				1	1	1			
NUMBER OF FISH AGED		111	76	187				125	155	280			
MEAN AGE		14.70	18.73	16.40				13.31	16.15	14.92			
MEAN WEIGHT (KG)		0.763	1.365	1.004				0.610	1.330	0.840			
TOTAL WEIGHT LANDED (TONS)		-	-	630				-	-	-			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH SIZE (MM)		-	-	110				-	-	110			
RANGE OF DEPTHS (FM)		-	-	165-175				-	-	-			

- 1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE B5

AGE FREQUENCIES - REDFISH¹⁾ - 3L - 1969

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (EXPLORATORY)					
CATCHES/LANDINGS		CATCHES					
MONTH		JULY					
COUNTRY		U. S. S. R.					
SPECIES OR TYPE		"MENTELLA"					
TONNAGE		1800					
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH		
		00	00	TOT.	00	00	TOT.
1954	9	4	-	4	28.00	-	28.00
1953	10	-	-	-	-	-	-
1952	11	7	4	11	31.00	29.00	30.33
1951	12	18	28	46	34.80	33.25	33.85
1950	13	49	25	74	35.00	35.29	35.09
1949	14	70	49	119	35.40	36.57	35.88
1948	15	84	49	133	37.33	37.93	37.55
1947	16	63	56	119	38.44	39.31	38.85
1946	17	42	49	91	39.41	40.14	39.81
1945	18	28	49	77	39.75	40.57	40.27
1944	19	53	42	95	40.53	41.50	40.96
1943	20	46	54	100	41.15	42.87	42.53
1942	21	25	28	53	42.86	43.87	43.40
1941	22	11	42	53	44.33	44.83	44.73
1940	23	-	14	14	-	45.75	45.75
1939	24	-	11	11	-	47.00	47.00
TOTAL ‰		500	500	1000			
SERIAL NUMBERS		-	-	-			
NUMBER OF SAMPLES		1	1	1			
NUMBER OF FISH AGED		142	142	284			
MEAN AGE		16.24	17.42	16.83			
MEAN WEIGHT (KG)		0.785	0.960	0.872			
TOTAL WEIGHT LANDED (TONS)		-	-	-			
ESTIMATED NUMBER LANDED		-	-	-			
MESH SIZE (MM)		-	-	110			
RANGE OF DEPTHS (FM)		-	-	200-205			

1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 86

AGE FREQUENCIES - REDFISH¹⁾ - 3P - 1963

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (EXPLORATORY)					
CATCHES/LANDINGS		CATCHES					
MONTH		AUGUST					
COUNTRY		U. S. S. R.					
SPECIES OR TYPE		"MENTELLA"					
TONNAGE		1800					
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH		
		00	00	TOT.	00	00	TOT.
1956	7	-	3	3	-	26.00	26.00
1955	8	7	10	17	27.00	27.66	27.40
1954	9	3	10	13	30.00	28.66	29.00
1953	10	24	10	34	29.00	30.33	29.40
1952	11	34	76	110	29.90	32.77	31.88
1951	12	42	136	178	32.83	33.64	33.45
1950	13	52	201	253	35.33	34.27	34.49
1949	14	49	108	157	35.71	35.48	35.55
1948	15	49	73	122	36.79	36.71	36.74
1947	16	38	31	69	38.64	37.33	38.05
1946	17	7	14	21	39.50	40.75	40.67
1945	18	-	14	14	-	39.50	39.50
1944	19	3	3	6	39.00	41.00	40.00
1943	20	-	-	-	-	-	-
1942	21	-	3	3	-	40.00	40.00
TOTAL ‰		308	692	1000			
SERIAL NUMBERS		-	-	-			
NUMBER OF SAMPLES		1	1	1			
NUMBER OF FISH AGED		89	200	289			
MEAN AGE		13.25	13.12	13.16			
MEAN WEIGHT (KG)		0.682	0.704	0.697			
TOTAL WEIGHT LANDED (TONS)		-	-	-			
ESTIMATED NUMBER LANDED		-	-	-			
MESH SIZE (MM)		-	-	110			
RANGE OF DEPTHS (FM)		-	-	225			

- 1) IT HAS BEEN INDICATED ON LINE 5 ENTITLED "SPECIES OR TYPE", THE CLASSIFICATION UNDER WHICH THE REPORTING COUNTRY HAS GROUPED THE SAMPLE IN QUESTION.

TABLE 87

AGE/LENGTH KEYS AND FREQUENCIES (REDFISH) - 1963

(AVAILABLE ON REQUEST FROM THE SECRETARIAT)

IN ACCORDANCE WITH A RECOMMENDATION MADE BY THE RESEARCH AND STATISTICS COMMITTEE AT THEIR ANNUAL MEETING IN 1962, AGE/LENGTH KEYS AND FREQUENCIES WILL NOT BE PUBLISHED BUT ARE TO BE DEPOSITED IN THE SECRETARIAT AND MADE AVAILABLE TO MEMBER COUNTRIES ON REQUEST. THE FOLLOWING AGE/LENGTH KEYS AND FREQUENCIES FOR REDFISH ARE NOW ON FILE IN THE SECRETARIAT.

GEAR - OTTER TRAWL

U. S. S. R.

DIVISION	MONTH
2J	MAY
3K	MARCH MAY
3L	JULY
3P	AUGUST

TABLE 89 LENGTH FREQUENCIES - AMERICAN PLAICE - 3K - 1963 (FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)		
CATCHES/LANDINGS	CATCHES		
MONTH	FEBRUARY		
COUNTRY	POLAND		
SEX	♂	♀	TOT.
TONNAGE	2670		
15	-	-	2
16	-	-	-
17	-	-	6
18	-	-	4
19	-	-	6
20	-	-	8
21	-	-	12
22	-	-	17
23	-	-	25
24	-	-	25
25	-	-	29
26	-	-	45
27	-	-	53
28	-	-	47
29	-	-	51
30	-	-	53
31	-	-	59
32	-	-	76
33	-	-	59
34	-	-	47
35	-	-	59
36	-	-	41
37	-	-	27
38	-	-	37
39	-	-	29
40	-	-	21
41	-	-	17
42	-	-	27
43	-	-	19
44	-	-	10
45	-	-	21
46	-	-	16
47	-	-	16
48	-	-	6
49	-	-	4
50	-	-	10
51	-	-	4
52	-	-	6
53	-	-	4
54	-	-	2
55	-	-	6
TOTAL 0/00	-	-	1000
SERIAL NUMBERS	-	-	-
NUMBER OF SAMPLES	-	-	-
NUMBER OF FISH MEASURED	-	-	511
MEAN LENGTH (CM)	-	-	33.1
MEAN WEIGHT (KG)	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-
ESTIMATED NUMBER LANDED	-	-	-
MESH SIZE (MM)	-	-	100
RANGE OF DEPTHS (FM)	-	-	118-246

TABLE 90 LENGTH FREQUENCIES - AMERICAN PLAICE - 3L - 1963 (FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
	CATCHES/LANDINGS			CATCHES			CATCHES		
MONTH	JANUARY			MARCH			NOVEMBER		
COUNTRY	POLAND			POLAND			POLAND		
SEX	♂	♀	Tot.	♂	♀	Tot.	♂	♀	Tot.
TONNAGE				2670					
14	-	-	3	-	-	-	-	-	-
15	-	-	-	-	-	4	-	-	-
16	-	-	10	-	-	-	-	-	-
17	-	-	19	-	-	-	-	-	-
18	-	-	44	-	-	4	-	-	-
19	-	-	31	-	-	-	-	-	-
20	-	-	72	-	-	-	-	-	-
21	-	-	50	-	-	4	-	-	9
22	-	-	93	-	-	2	-	-	6
23	-	-	75	-	-	8	-	-	21
24	-	-	97	-	-	12	-	-	18
25	-	-	82	-	-	10	-	-	18
26	-	-	46	-	-	14	-	-	18
27	-	-	68	-	-	29	-	-	15
28	-	-	46	-	-	18	-	-	18
29	-	-	48	-	-	36	-	-	18
30	-	-	54	-	-	24	-	-	36
31	-	-	45	-	-	35	-	-	12
32	-	-	41	-	-	53	-	-	12
33	-	-	16	-	-	43	-	-	21
34	-	-	22	-	-	55	-	-	27
35	-	-	18	-	-	47	-	-	27
36	-	-	7	-	-	59	-	-	30
37	-	-	4	-	-	41	-	-	54
38	-	-	4	-	-	43	-	-	60
39	-	-	-	-	-	39	-	-	85
40	-	-	2	-	-	39	-	-	98
41	-	-	1	-	-	30	-	-	75
42	-	-	1	-	-	37	-	-	82
43	-	-	1	-	-	36	-	-	54
44	-	-	-	-	-	43	-	-	45
45	-	-	-	-	-	29	-	-	39
46	-	-	-	-	-	24	-	-	12
47	-	-	-	-	-	28	-	-	18
48	-	-	-	-	-	28	-	-	15
49	-	-	-	-	-	26	-	-	9
50	-	-	-	-	-	16	-	-	6
51	-	-	-	-	-	20	-	-	3
52	-	-	-	-	-	24	-	-	6
53	-	-	-	-	-	20	-	-	9
54	-	-	-	-	-	8	-	-	3
55	-	-	-	-	-	4	-	-	6
56	-	-	-	-	-	-	-	-	3
57	-	-	-	-	-	2	-	-	9
59	-	-	-	-	-	-	-	-	3
60	-	-	-	-	-	4	-	-	-
61	-	-	-	-	-	2	-	-	-
TOTAL 0/00	-	-	1000	-	-	1000	-	-	1000
NUMBER OF FISH MEASURED	-	-	734	-	-	507	-	-	332
NUMBER OF SAMPLES	-	-	-	-	-	-	-	-	1
MEAN LENGTH (CM)	-	-	25.3	-	-	38.2	-	-	38.3
MESH SIZE (MM)	-	-	100	-	-	100	-	-	100
RANGE OF DEPTHS (FM)	-	-	144-262	-	-	130-211	-	-	49-71

TABLE 90
(CONT'D)

LENGTH FREQUENCIES - AMERICAN PLAICE - 3L - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
	LANDINGS			LANDINGS AFTER DISCARD:					
CATCHES/LANDINGS	JUNE			APRIL			MAY		
MONTH	CANADA (MARITIMES)			CANADA (NEWFOUNDLAND)					
COUNTRY	00	00	TOT.	00	00	TOT.	00	00	TOT.
SEX	151-500								
TONNAGE									
24	-	-	-	-	1	1	-	-	-
25	-	-	-	-	-	-	1	1	2
26	-	-	-	-	-	-	-	2	2
27	-	-	-	-	1	1	-	-	-
28	-	-	-	-	1	1	1	-	1
29	-	-	-	1	-	1	2	-	2
30	-	-	-	6	1	7	2	1	3
31	-	-	-	6	2	8	2	2	4
32	-	-	-	7	3	10	4	2	6
33	-	-	-	13	4	17	5	1	6
34	5	-	5	22	6	28	13	2	15
35	5	-	5	20	8	28	20	6	26
36	17	-	17	23	10	33	34	6	40
37	28	11	39	35	3	38	29	8	37
38	23	11	34	39	11	50	40	9	49
39	34	23	57	56	8	64	61	12	73
40	34	23	57	63	7	70	52	20	72
41	28	5	33	70	13	83	59	20	79
42	11	23	34	58	13	71	48	21	69
43	23	23	46	61	17	78	60	16	76
44	40	11	51	49	15	64	40	21	61
45	23	28	51	39	15	54	23	29	52
46	45	34	79	26	14	40	26	33	59
47	23	68	91	29	15	44	17	25	42
48	11	28	39	9	18	27	14	21	35
49	5	40	45	11	24	35	9	29	38
50	-	57	57	1	31	32	2	21	23
51	-	28	28	1	13	14	2	24	26
52	-	28	28	1	11	12	-	21	21
53	-	17	17	-	20	20	-	17	17
54	-	11	11	-	13	13	-	16	16
55	-	34	34	-	11	11	-	11	11
56	-	17	17	-	11	11	-	9	9
57	-	23	23	-	8	8	-	10	10
58	-	17	17	-	3	3	-	6	6
59	-	23	23	-	6	6	-	4	4
60	-	17	17	-	5	5	-	1	1
61	-	17	17	-	3	3	-	3	3
62	-	-	-	-	4	4	-	2	2
63	-	-	-	-	1	1	-	3	3
64	-	23	23	-	1	1	-	2	2
65	-	5	5	-	2	2	-	-	-
66	-	-	-	-	-	-	-	2	2
69	-	-	-	-	1	1	-	2	2
TOTAL 0/00	355	645	1000	646	354	1000	560	441	1001
SERIAL NUMBERS	-	-	147	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	1	-	-	6	-	-	5
NUMBER OF FISH MEASURED	63	114	177	-	-	1420	-	-	1258
MEAN LENGTH (CM)	-	-	47.0	-	-	43.04	-	-	43.53
MEAN WEIGHT (KG)	-	-	1.15	-	-	0.82	-	-	0.85
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	2620	-	-	1858
ESTIMATED NUMBER LANDED	-	-	-	-	-	3208953	-	-	2189044
MESH SIZE (INCHES)	-	-	42	-	-	42	-	-	4-4 3/82
RANGE OF DEPTHS (FM)	-	-	60-65	-	-	40-80	-	-	50-85

- 1) MANILLA
2) MANILLA AND NYLON

TABLE 90
(CONT'D)

LENGTH FREQUENCIES - AMERICAN PLAICE - 3L - 1963

(FREQUENCIES IN % - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
	CATCHES/LANDINGS			LANDINGS AFTER DISCARD					
MONTH	JUNE			SEPTEMBER			NOVEMBER		
COUNTRY	CANADA (NEWFOUNDLAND)								
SEX	♂	♀	TOT.	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	151-500								
30	-	6	6	-	-	-	-	-	-
31	9	9	18	5	-	5	2	-	2
32	6	9	15	-	-	-	-	-	-
33	11	9	20	5	-	5	-	-	-
34	23	11	34	10	-	10	4	2	6
35	23	11	34	35	10	45	4	4	8
36	21	13	34	45	15	60	5	2	7
37	41	13	54	50	20	70	11	9	20
38	38	15	53	55	5	60	19	9	28
39	43	17	60	120	45	165	26	5	31
40	41	28	69	35	10	45	17	7	24
41	43	34	77	45	50	95	23	7	30
42	32	28	60	35	50	85	30	14	44
43	26	21	47	10	30	40	16	26	42
44	36	30	66	10	20	30	26	16	42
45	13	34	47	15	15	30	31	30	61
46	13	34	47	5	30	35	31	23	54
47	6	30	36	-	30	30	23	40	63
48	6	36	42	-	15	15	10	42	52
49	-	24	24	-	25	25	9	54	63
50	2	34	36	-	20	20	5	54	59
51	-	19	19	-	10	10	2	38	40
52	-	26	26	-	10	10	-	35	35
53	2	13	15	-	45	45	-	40	40
54	-	15	15	-	5	5	-	42	42
55	-	19	19	-	10	10	-	33	33
56	-	6	6	-	10	10	-	24	24
57	-	11	11	-	-	-	-	28	28
58	-	4	4	-	5	5	-	28	28
59	-	2	2	-	5	5	-	26	26
60	-	2	2	-	10	10	-	16	16
61	-	2	2	-	5	5	-	17	17
62	-	-	-	-	-	-	-	14	14
63	-	-	-	-	5	5	-	5	5
64	-	-	-	-	-	-	-	12	12
65	-	-	-	-	5	5	-	2	2
66	-	-	-	-	-	-	-	-	-
67	-	-	-	-	-	-	-	-	-
68	-	-	-	-	5	5	-	2	2
TOTAL %	435	565	1000	480	520	1000	294	706	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	2	-	-	1	-	-	2
NUMBER OF FISH MEASURED	-	-	468	-	-	200	-	-	572
MEAN LENGTH (CM)	-	-	42.66	-	-	42.59	-	-	48.60
MEAN WEIGHT (KG)	-	-	0.81	-	-	0.82	-	-	1.50
TOTAL WEIGHT LANDED (TONS)	-	-	2828	-	-	539	-	-	970
ESTIMATED NUMBER LANDED	-	-	3486056	-	-	660163	-	-	645495
MESH SIZE (INCHES)	-	-	4-1)	-	-	4-1)	-	-	4-2)
RANGE OF DEPTHS (FM)	-	-	65-85	-	-	75-88	-	-	88-105

1) MANILLA

2) NYLON AND DRYLENE

TABLE 91 LENGTH FREQUENCIES - AMERICAN PLAICE - 3M - 1963 (FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)		
CATCHES/LANDINGS	CATCHES		
MONTH	MARCH		
COUNTRY	POLAND		
SEX	♂	♀	TOT.
TONNAGE	2670		
30	-	-	4
31	-	-	-
32	-	-	-
33	-	-	-
34	-	-	-
35	-	-	8
36	-	-	8
37	-	-	24
38	-	-	48
39	-	-	52
40	-	-	68
41	-	-	80
42	-	-	64
43	-	-	48
44	-	-	40
45	-	-	64
46	-	-	56
47	-	-	64
48	-	-	76
49	-	-	68
50	-	-	68
51	-	-	52
52	-	-	32
53	-	-	28
54	-	-	40
55	-	-	4
56	-	-	4
TOTAL 0/00	-	-	1000
SERIAL NUMBERS	-	-	-
NUMBER OF SAMPLES	-	-	-
NUMBER OF FISH MEASURED	-	-	250
MEAN LENGTH (CM)	-	-	45.1
MEAN WEIGHT (KG)	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-
ESTIMATED NUMBER LANDED	-	-	-
MESH SIZE (MM)	-	-	100
RANGE OF DEPTHS (FM)	-	-	151-273

TABLE 92 LENGTH FREQUENCIES - AMERICAN PLAICE - 3N - 1963 (FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
	CATCHES/LANDINGS			LANDINGS AFTER DISCARD					
MONTH	JANUARY			FEBRUARY			MARCH		
COUNTRY	CANADA (NEWFOUNDLAND)								
SEX	00	00	TOT.	00	00	TOT.	00	00	TOT.
TONNAGE	151-500								
22	-	-	-	1	-	1	-	-	-
24	-	-	-	-	-	-	-	1	1
26	-	-	-	-	1	1	-	3	3
27	-	-	-	-	-	-	1	-	1
28	-	-	-	1	2	3	3	5	8
29	-	-	-	-	2	2	4	4	8
30	2	2	4	4	1	5	5	4	9
31	-	-	-	5	7	12	14	6	20
32	5	3	8	12	18	30	11	20	31
33	10	10	20	31	30	61	33	27	60
34	8	3	11	41	36	77	51	39	90
35	13	10	23	36	42	78	34	24	58
36	18	8	26	36	39	75	50	37	87
37	26	6	32	26	26	52	29	46	75
38	27	14	41	21	27	48	26	15	41
39	27	10	37	33	18	51	22	19	41
40	22	8	30	28	18	46	29	17	46
41	40	14	54	30	25	55	24	19	43
42	32	13	45	20	35	55	26	20	46
43	50	13	63	24	23	47	20	18	38
44	35	21	56	18	23	41	31	19	50
45	43	16	59	8	23	31	11	23	34
46	43	21	64	8	20	28	19	23	42
47	19	19	38	10	18	28	11	18	29
48	43	18	61	5	21	26	5	17	22
49	16	24	40	6	18	24	5	17	22
50	11	29	40	1	11	12	1	8	9
51	8	27	35	2	22	24	-	17	17
52	3	48	51	-	13	13	-	19	19
53	3	29	32	-	9	9	-	3	3
54	-	34	34	-	12	12	-	8	8
55	-	27	27	-	13	13	-	8	8
56	-	13	13	-	9	9	-	10	10
57	-	11	11	-	5	5	-	4	4
58	-	8	8	-	7	7	-	8	8
59	-	16	16	-	4	4	-	3	3
60	-	5	5	-	3	3	-	3	3
61	-	3	3	-	4	4	-	1	1
62	-	5	5	-	-	-	-	-	-
63	-	3	3	-	2	2	-	1	1
64	-	2	2	-	4	4	-	-	-
65	-	2	2	-	1	1	-	-	-
66	-	-	-	-	1	1	-	-	-
68	-	-	-	-	-	-	-	1	1
69	-	2	2	-	-	-	-	-	-
TOTAL 0/00	504	497	1001	407	593	1000	465	535	1000
NUMBER OF SAMPLES	-	-	3	-	-	4	-	-	3
NUMBER OF FISH MEASURED	-	-	624	-	-	1067	-	-	784
MEAN LENGTH (CM)	-	-	45.63	-	-	40.83	-	-	40.07
MEAN WEIGHT (KG)	-	-	1.15	-	-	0.75	-	-	0.70
TOTAL WEIGHT LANDED (TONS)	-	-	327	-	-	507	-	-	244
ESTIMATED NUMBER LANDED	-	-	285618	-	-	677634	-	-	348832
MESH SIZE (INCHES)	-	-	42-51)	-	-	4-52)	-	-	42-52)
RANGE OF DEPTHS (FM)	-	-	34-125	-	-	38-120	-	-	45-140

- 1) MANILLA AND NYLON
2) MANILLA

TABLE 92
(CONT'D)

LENGTH FREQUENCIES - AMERICAN PLAICE - 3N - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
	LANDINGS AFTER DISCARD								
CATCHES/LANDINGS	JULY			AUGUST			SEPTEMBER		
MONTH	CANADA (NEWFOUNDLAND)								
COUNTRY									
SEX	00	00	Tot.	00	00	Tot.	00	00	Tot.
TONNAGE	151-500								
27	-	-	-	-	-	-	-	2	2
28	-	-	-	-	2	2	-	-	-
29	-	-	-	-	2	2	-	-	-
30	-	-	-	-	2	2	3	2	5
31	-	5	5	9	4	13	3	-	3
32	5	-	5	4	11	15	-	3	3
33	5	5	10	20	2	22	2	3	5
34	9	-	9	11	9	20	5	3	8
35	19	5	24	18	13	31	16	10	26
36	48	-	48	13	11	24	31	8	39
37	29	9	38	31	24	55	18	11	29
38	14	14	28	33	18	51	13	18	31
39	14	24	38	9	20	29	24	10	34
40	24	9	33	31	18	49	21	20	41
41	24	19	43	29	15	44	33	10	43
42	24	-	24	38	15	53	42	18	60
43	33	5	38	13	24	37	36	20	56
44	29	24	53	33	24	57	34	18	52
45	38	14	52	53	18	71	31	28	59
46	24	5	29	26	9	35	37	21	58
47	9	5	14	18	7	25	26	36	62
48	24	38	62	22	40	62	23	24	47
49	19	33	52	4	26	30	13	29	42
50	14	52	66	9	18	27	8	33	41
51	5	24	29	2	42	44	2	34	36
52	-	43	43	-	18	18	2	46	48
53	-	29	29	2	42	44	-	39	39
54	-	38	38	-	26	26	-	18	18
55	-	33	33	-	20	20	-	41	41
56	-	29	29	-	15	15	-	24	24
57	-	29	29	-	24	24	-	11	11
58	-	19	19	-	22	22	-	10	10
59	-	33	33	-	7	7	-	3	3
60	-	19	19	-	2	2	-	3	3
61	-	5	5	-	2	2	-	10	10
62	-	-	-	-	2	2	-	6	6
63	-	5	5	-	7	7	-	2	2
64	-	9	9	-	7	7	-	-	-
65	-	9	9	-	-	-	-	3	3
66	-	-	-	-	4	4	-	-	-
TOTAL 0/00	410	590	1000	428	572	1000	429	577	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	1	-	-	2	-	-	3
NUMBER OF FISH MEASURED	-	-	210	-	-	454	-	-	614
MEAN LENGTH (CM)	-	-	47.05	-	-	44.81	-	-	45.78
MEAN WEIGHT (KG)	-	-	1.21	-	-	1.02	-	-	1.10
TOTAL WEIGHT LANDED (TONS)	-	-	377	-	-	837	-	-	703
ESTIMATED NUMBER LANDED	-	-	312797	-	-	823749	-	-	640814
MESH SIZE (INCHES)	-	-	42 ¹⁾	-	-	42-42 ²⁾	-	-	42 ³⁾
RANGE OF DEPTHS (FM)	-	-	45-100	-	-	35-100	-	-	48-100

- 1) NYLON
2) MANILLA
3) MANILLA, NYLON AND POLYPROPYLENE

TABLE 92
(CONT'D)

LENGTH FREQUENCIES - AMERICAN PLAICE - 3N - 1963

(FREQUENCIES IN %/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
	CATCHES/LANDINGS			LANDINGS AFTER DISCARD					
MONTH	OCTOBER			NOVEMBER			DECEMBER		
COUNTRY	CANADA (NEWFOUNDLAND)								
SEX	♂	♀	TOT.	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	151-500								
18	-	-	-	1	-	1	-	-	-
23	-	1	1	-	-	-	-	-	-
25	1	-	1	-	-	-	-	-	-
27	-	1	1	-	-	-	-	-	-
28	3	1	4	-	-	-	4	2	6
29	1	1	2	-	-	-	2	2	4
30	2	2	4	-	1	1	-	4	4
31	4	5	9	4	3	7	9	2	11
32	11	6	17	7	6	13	15	4	19
33	8	10	18	13	10	23	11	4	15
34	19	14	33	18	6	24	17	11	28
35	29	12	41	22	12	34	20	13	33
36	27	17	44	18	10	28	20	26	46
37	19	19	38	28	15	43	26	37	63
38	28	12	40	34	18	52	19	30	49
39	21	22	43	19	9	28	32	22	54
40	21	14	35	32	4	36	28	15	43
41	28	10	38	28	13	41	24	13	37
42	30	15	45	16	9	25	37	13	50
43	32	10	42	28	16	44	28	11	39
44	42	11	53	39	12	51	26	26	52
45	55	12	67	31	15	46	22	26	48
46	38	14	52	26	18	44	26	22	48
47	30	22	52	29	16	45	24	30	54
48	28	16	44	15	22	37	15	24	39
49	20	19	39	12	16	28	11	24	35
50	10	17	27	9	28	37	4	26	30
51	7	29	36	3	36	39	9	17	26
52	3	17	20	3	31	34	2	41	43
53	1	20	21	1	28	29	-	17	17
54	-	27	27	-	36	36	-	15	15
55	-	24	24	-	42	42	-	17	17
56	-	16	16	-	25	25	-	32	32
57	-	16	16	-	28	28	-	26	26
58	-	14	14	-	18	18	-	4	4
59	-	10	10	-	13	13	-	9	9
60	-	8	8	-	10	10	-	2	2
61	-	8	8	-	7	7	-	-	-
62	-	4	4	-	10	10	-	-	-
63	-	3	3	-	9	9	-	-	-
64	-	2	2	-	7	7	-	-	-
65	-	1	1	-	1	1	-	-	-
66	-	-	-	-	4	4	-	2	2
67	-	-	-	-	1	1	-	-	-
TOTAL %/00	518	482	1000	436	565	1001	431	569	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	-	-	7	-	-	3	-	-	2
NUMBER OF FISH MEASURED	-	-	1548	-	-	685	-	-	463
MEAN LENGTH (CM)	-	-	44.31	-	-	45.99	-	-	43.70
MEAN WEIGHT (KG)	-	-	1.03	-	-	1.24	-	-	1.00
TOTAL WEIGHT LANDED (TONS)	-	-	1785	-	-	1212	-	-	763
ESTIMATED NUMBER LANDED	-	-	1726204	-	-	978783	-	-	761315
MESH SIZE (INCHES)	-	-	42 1)	-	-	42 1)	-	-	42-51)
RANGE OF DEPTHS (FM)	-	-	30-130	-	-	36-85	-	-	30-55

TABLE 93 LENGTH FREQUENCIES - AMERICAN PLAICE - 30 - 1963 (FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)		
CATCHES/LANDINGS	LANDINGS AFTER DISCARD		
MONTH	JUNE		
COUNTRY	CANADA (NEWFOUNDLAND)		
SEX	00	09	TOT.
TONNAGE	151-500		
32	12	8	20
33	8	4	12
34	4	12	16
35	8	19	27
36	16	20	36
37	23	35	58
38	35	16	51
39	35	23	58
40	51	27	78
41	62	23	85
42	39	12	51
43	27	27	54
44	62	27	89
45	47	12	59
46	51	39	90
47	12	35	47
48	12	16	28
49	-	23	23
50	-	12	12
51	8	16	24
52	-	19	19
53	-	12	12
54	-	23	23
55	-	4	4
56	-	4	4
57	-	8	8
58	-	4	4
59	-	-	-
60	-	-	-
61	-	-	-
62	-	4	4
63	-	-	-
64	-	-	-
65	-	4	4
TOTAL 0/00	512	488	1000
SERIAL NUMBERS	-	-	-
NUMBER OF SAMPLES	-	-	1
NUMBER OF FISH MEASURED	-	-	256
MEAN LENGTH (CM)	-	-	42.96
MEAN WEIGHT (KG)	-	-	0.82
TOTAL WEIGHT LANDED (TONS)	-	-	103
ESTIMATED NUMBER LANDED	-	-	125555
MESH SIZE (INCHES)	-	-	42 1/2
RANGE OF DEPTHS (FM)	-	-	40-90

1) MANILLA

TABLE 94 LENGTH FREQUENCIES - AMERICAN PLAICE - 4T - 1963 (FREQUENCIES IN % - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
	CATCHES/LANDINGS			LANDINGS					
MONTH	JULY			AUGUST			SEPTEMBER		
COUNTRY	CANADA (MARITIMES)								
SEX	♂	♀	TOT.	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	26-50								
27	-	-	10	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-	-
29	-	-	20	5	20	25	-	-	-
30	-	-	80	5	25	30	-	-	-
31	-	-	100	30	25	55	5	-	5
32	-	-	140	30	70	100	38	22	60
33	-	-	50	25	85	110	27	60	87
34	-	-	100	20	120	140	54	60	114
35	-	-	40	-	75	75	22	49	71
36	-	-	60	-	75	75	22	49	71
37	-	-	50	15	40	55	27	60	87
38	-	-	40	-	45	45	11	60	71
39	-	-	20	5	25	30	16	76	92
40	-	-	-	-	30	30	-	33	33
41	-	-	40	-	15	15	-	16	16
42	-	-	30	-	35	35	-	38	38
43	-	-	10	-	30	30	-	11	11
44	-	-	10	-	40	40	-	16	16
45	-	-	-	-	20	20	-	16	16
46	-	-	30	-	10	10	-	11	11
47	-	-	-	-	10	10	-	16	16
48	-	-	30	-	5	5	-	22	22
49	-	-	10	-	-	-	-	5	5
50	-	-	20	-	-	-	-	22	22
51	-	-	30	-	-	-	-	27	27
52	-	-	20	-	5	5	-	38	38
53	-	-	10	-	-	-	-	16	16
54	-	-	10	-	5	5	-	5	5
55	-	-	20	-	-	-	-	16	16
56	-	-	10	-	10	10	-	16	16
57	-	-	-	-	5	5	-	5	5
58	-	-	-	-	-	-	-	5	5
59	-	-	-	-	15	15	-	-	-
60	-	-	10	-	5	5	-	-	-
61	-	-	-	-	10	10	-	-	-
62	-	-	-	-	10	10	-	5	5
TOTAL %	-	-	1000	135	865	1000	222	775	997
SERIAL NUMBERS	-	-	139	-	-	140	-	-	141
NUMBER OF SAMPLES	-	-	1	-	-	1	-	-	1
NUMBER OF FISH MEASURED	-	-	100	27	173	200	41	143	184
MEAN LENGTH (CM)	-	-	37.6	-	-	37.4	-	-	39.8
MEAN WEIGHT (KG)	-	-	-	-	-	0.51	-	-	0.78
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	4 7/8	-	-	4 5/8	-	-	4 3/4
RANGE OF DEPTHS (FM)	-	-	30-50	-	-	20	-	-	30

TABLE 94 LENGTH FREQUENCIES - AMERICAN PLAICE - 4T - 1969 (FREQUENCIES IN 0/00 - 1 CM GROUPS)
(CONT'D)

GEAR	OTTER TRAWL			DANISH SEINE					
				(COMMERCIAL)					
CATCHES/LANDINGS				LANDINGS					
MONTH	OCTOBER			JUNE			AUGUST		
COUNTRY				CANADA (MARITIMES)					
SEX	♂	♀	Tot.	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	51-150			26-50					
25	25	-	25	-	-	-	-	-	-
26	30	-	30	-	-	-	-	-	-
27	45	-	45	10	5	15	-	-	-
28	70	-	70	15	5	20	-	-	-
29	50	-	50	20	10	30	-	5	5
30	75	-	75	55	15	70	-	-	-
31	85	-	85	60	25	85	5	40	45
32	80	5	85	60	40	100	10	50	60
33	115	5	120	15	100	115	5	55	60
34	50	20	70	25	85	110	5	85	90
35	55	15	70	25	85	110	5	95	100
36	35	5	40	5	80	85	-	75	75
37	25	25	50	15	75	90	15	65	80
38	30	20	50	5	45	50	5	70	75
39	-	20	20	15	15	30	-	70	70
40	15	25	40	-	-	-	-	45	45
41	5	5	10	-	25	25	-	30	30
42	-	5	5	-	25	25	-	60	60
43	20	20	40	-	5	5	-	15	15
44	-	5	5	-	15	15	-	25	25
45	-	5	5	-	10	10	-	50	50
46	-	-	-	-	5	5	-	25	25
47	-	-	-	-	5	5	-	10	10
48	-	-	-	-	-	-	-	10	10
49	-	5	5	-	-	-	-	5	5
50	-	-	-	-	-	-	-	10	10
51	-	-	-	-	-	-	-	5	5
52	-	5	5	-	-	-	-	10	10
53	-	-	-	-	-	-	-	10	10
54	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	5	5
56	-	-	-	-	-	-	-	5	5
57	-	-	-	-	-	-	-	5	5
58	-	-	-	-	-	-	-	5	5
59	-	-	-	-	-	-	-	5	5
60	-	-	-	-	-	-	-	-	-
61	-	-	-	-	-	-	-	5	5
TOTAL 0/00	810	190	1000	325	675	1000	50	950	1000
SERIAL NUMBERS	-	-	142	-	-	143	-	-	144
NUMBER OF SAMPLES	-	-	1	-	-	1	-	-	1
NUMBER OF FISH MEASURED	-	-	200	65	135	200	10	190	200
MEAN LENGTH (CM)	-	-	33.6	-	-	34.5	-	-	38.7
MEAN WEIGHT (KG)	-	-	0.36	-	-	0.39	-	-	0.57
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	4½	-	-	4½	-	-	4½
RANGE OF DEPTHS (FM)	-	-	28-30	-	-	50	-	-	20-25

TABLE 95 LENGTH FREQUENCIES - AMERICAN PLAICE - 4VN - 1963 (FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	OTTER TRAWL			DANISH SEINE		
	(COMMERCIAL)			LANDINGS		
CATCHES/LANDINGS	MARCH			NOVEMBER		
MONTH	CANADA (MARITIMES)					
COUNTRY	♂♂	♀♀	TOT.	♂♂	♀♀	TOT.
SEX	151-500			51-150		
TONNAGE						
28	-	-	-	28	5	33
29	-	-	-	9	9	18
30	-	-	-	41	14	55
31	5	-	5	18	9	27
32	5	-	5	32	9	41
33	30	-	30	32	32	64
34	35	-	35	37	18	55
35	40	-	40	32	55	87
36	70	-	70	18	60	78
37	70	-	70	9	64	73
38	120	5	125	18	50	68
39	90	10	100	5	32	37
40	45	15	60	5	50	55
41	50	-	50	-	27	27
42	45	5	50	-	18	18
43	35	10	45	5	46	51
44	25	5	30	-	46	46
45	30	5	35	5	9	14
46	15	-	15	-	14	14
47	5	-	5	-	27	27
48	15	20	35	-	18	18
49	10	15	25	-	5	5
50	10	5	15	-	14	14
51	5	5	10	-	23	23
52	5	10	15	-	-	-
53	10	10	20	-	14	14
54	-	10	10	-	9	9
55	-	15	15	-	9	9
56	-	15	15	-	-	-
57	-	30	30	-	5	5
58	-	5	5	-	9	9
59	-	10	10	-	5	5
60	-	10	10	-	-	-
61	-	-	-	-	-	-
62	-	10	10	-	-	-
63	-	5	5	-	-	-
TOTAL ‰	770	290	1000	294	705	999
SERIAL NUMBERS	-	-	145	-	-	146
NUMBER OF SAMPLES	-	-	1	-	-	1
NUMBER OF FISH MEASURED	154	46	200	64	154	218
MEAN LENGTH (CM)	-	-	42.3	-	-	38.5
MEAN WEIGHT (KG)	-	-	0.68	-	-	0.54
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	4½	-	-	4½
RANGE OF DEPTHS (FM)	-	-	150	-	-	66-90

TABLE 96

LENGTH FREQUENCIES - WITCH - 9K - 1963

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)		
CATCHES/LANDINGS	CATCHES		
MONTH	FEBRUARY		
COUNTRY	POLAND		
SEX	♂	♀	TOT.
TONNAGE	2670		
37	-	-	16
38	-	-	19
39	-	-	27
40	-	-	30
41	-	-	49
42	-	-	27
43	-	-	35
44	-	-	49
45	-	-	41
46	-	-	44
47	-	-	60
48	-	-	65
49	-	-	55
50	-	-	46
51	-	-	36
52	-	-	27
53	-	-	14
54	-	-	22
55	-	-	55
56	-	-	39
57	-	-	38
58	-	-	27
59	-	-	27
60	-	-	33
61	-	-	14
62	-	-	41
63	-	-	14
64	-	-	14
65	-	-	5
66	-	-	5
67	-	-	3
69	-	-	3
70	-	-	5
71	-	-	3
75	-	-	3
76	-	-	3
78	-	-	3
79	-	-	3
80	-	-	3
84	-	-	3
TOTAL ‰	-	-	1000
SERIAL NUMBERS	-	-	-
NUMBER OF SAMPLES	-	-	-
NUMBER OF FISH MEASURED	-	-	366
MEAN LENGTH (CM)	-	-	50.5
MEAN WEIGHT (KG)	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-
ESTIMATED NUMBER LANDED	-	-	-
MESH SIZE (MM)	-	-	100
RANGE OF DEPTHS (FM)	-	-	139-246

TABLE 97

LENGTH FREQUENCIES - WITCH - 3L - 1963

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)		
CATCHES/LANDINGS	CATCHES		
MONTH	JANUARY		
COUNTRY	POLAND		
SEX	♂	♀	TOT.
TONNAGE	2670		
41	-	-	8
42	-	-	-
43	-	-	17
44	-	-	-
45	-	-	9
46	-	-	43
47	-	-	43
48	-	-	103
49	-	-	103
50	-	-	103
51	-	-	94
52	-	-	68
53	-	-	94
54	-	-	77
55	-	-	34
56	-	-	51
57	-	-	8
58	-	-	34
59	-	-	26
60	-	-	8
61	-	-	17
62	-	-	9
63	-	-	-
64	-	-	8
65	-	-	43
TOTAL ‰	-	-	1000
SERIAL NUMBERS	-	-	-
NUMBER OF SAMPLES	-	-	-
NUMBER OF FISH MEASURED	-	-	117
MEAN LENGTH (CM)	-	-	52.1
MEAN WEIGHT (KG)	-	-	-
TOTAL WEIGHT LANDED (TONS)	-	-	-
ESTIMATED NUMBER LANDED	-	-	-
MESH SIZE (MM)	-	-	100
RANGE OF DEPTHS (FM)	-	-	144-262

TABLE 98

LENGTH FREQUENCIES - WITCH - 4R - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	DANISH SEINE (COMMERCIAL)		
CATCHES/LANDINGS	LANDINGS		
MONTH	NK		
COUNTRY	CANADA (MARITIMES)		
SEX	00	00	TOT.
TONNAGE	51-150		
31	-	-	33
32	-	-	19
33	-	-	28
34	-	-	66
35	-	-	127
36	-	-	94
37	-	-	85
38	-	-	75
39	-	-	108
40	-	-	42
41	-	-	70
42	-	-	52
43	-	-	38
44	-	-	9
45	-	-	42
46	-	-	19
47	-	-	19
48	-	-	42
49	-	-	14
50	-	-	9
51	-	-	5
52	-	-	-
53	-	-	5
TOTAL 0/00	-	-	1001
SERIAL NUMBERS	-	-	151
NUMBER OF SAMPLES	-	-	1
NUMBER OF FISH MEASURED	-	-	213
MEAN LENGTH (CM)	-	-	38.9
MEAN WEIGHT (KG)	-	-	0.52
TOTAL WEIGHT LANDED (TONS)	-	-	-
ESTIMATED NUMBER LANDED	-	-	-
MESH SIZE (INCHES)	-	-	4 $\frac{1}{2}$
RANGE OF DEPTHS (FM)	-	-	48-52

TABLE 99

LENGTH FREQUENCIES - WITCH - 4T - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)								
CATCHES/LANDINGS	LANDINGS								
MONTH	JUNE			JULY			OCTOBER		
COUNTRY	CANADA (MARITIMES)								
SEX	00	00	TOT.	00	00	TOT.	00	00	TOT.
TONNAGE	26-50						51-150		
30	-	-	-	40	-	40	-	-	-
31	-	-	-	60	10	70	-	-	-
32	-	-	-	30	-	30	-	-	-
33	-	19	19	60	20	80	-	-	-
34	13	6	19	30	-	30	-	-	-
35	26	32	58	70	-	70	-	-	-
36	13	32	45	40	10	50	9	-	9
37	13	19	32	60	30	90	-	-	-
38	32	13	45	20	40	60	9	-	9
39	26	13	39	40	30	70	18	-	18
40	38	26	64	60	60	120	45	-	45
41	32	13	45	-	50	50	27	9	36
42	39	32	71	-	20	20	54	-	54
43	58	19	77	-	10	10	9	-	9
44	19	26	45	-	30	30	27	18	45
45	6	32	38	20	40	60	27	18	45
46	19	32	51	10	20	30	9	18	27
47	13	19	32	-	20	20	-	18	18
48	13	39	52	-	20	20	18	18	36
49	6	26	32	-	-	-	9	18	27
50	13	19	32	-	10	10	27	9	36
51	13	6	19	-	-	-	-	9	9
52	-	38	38	-	-	-	18	18	36
53	-	19	19	-	-	-	-	45	45
54	13	6	19	-	10	10	-	36	36
55	13	6	19	-	10	10	-	63	63
56	-	32	32	-	10	10	9	63	72
57	-	6	6	-	10	10	-	81	81
58	-	26	26	-	-	-	-	108	108
59	-	19	19	-	-	-	-	36	36
60	6	-	6	-	-	-	-	36	36
61	-	-	-	-	-	-	-	54	54
62	-	-	-	-	-	-	-	9	9
TOTAL 0/00	424	575	999	540	460	1000	315	684	999
SERIAL NUMBERS	-	-	152	-	-	153	-	-	154
NUMBER OF SAMPLES	-	-	1	-	-	1	-	-	1
NUMBER OF FISH MEASURED	66	90	156	54	46	100	35	76	111
MEAN LENGTH (CM)	-	-	44.4	-	-	38.7	-	-	51.5
MEAN WEIGHT (KG)	-	-	0.65	-	-	-	-	-	1.09
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	4½	-	-	4 7/8	-	-	4 3/4
RANGE OF DEPTHS (FM)	-	-	80-95	-	-	30-50	-	-	25-30

TABLE 100

LENGTH FREQUENCIES - WITCH - 4VN - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)						DANISH SEINE (COMMERCIAL)		
CATCHES/LANDINGS	LANDINGS								
MONTH	MARCH			APRIL			NOVEMBER		
COUNTRY	CANADA (MARITIMES)								
SEX	♂	♀	TOT.	♂	♀	TOT.	♂	♀	TOT.
TONNAGE	51-150			151-500			51-150		
22	5	-	5	-	-	-	-	-	-
28	5	-	5	-	-	-	-	-	-
29	-	-	-	-	-	-	5	-	5
30	5	-	5	-	-	-	-	-	-
31	5	-	5	-	-	-	10	5	15
32	-	-	-	5	-	5	-	10	10
33	5	-	5	-	-	-	15	20	35
34	15	5	20	-	-	-	20	20	40
35	10	5	15	10	-	10	20	20	40
36	45	-	45	10	10	20	10	35	45
37	25	15	40	10	-	10	15	70	85
38	60	20	80	10	5	15	5	40	45
39	25	30	55	45	10	55	5	35	40
40	90	25	115	45	30	75	30	50	80
41	50	25	75	25	45	70	5	30	35
42	25	30	55	55	25	80	20	70	90
43	65	30	95	70	30	100	15	45	60
44	35	45	80	15	45	60	5	45	50
45	25	35	60	40	15	55	-	40	40
46	5	30	35	20	70	90	-	35	35
47	10	20	30	5	45	50	-	50	50
48	15	45	60	15	70	85	5	40	45
49	15	25	40	15	30	45	5	35	40
50	-	10	10	5	20	25	-	15	15
51	-	10	10	5	20	25	5	15	20
52	5	10	15	5	20	25	-	10	10
53	-	-	-	-	15	15	-	10	10
54	-	15	15	-	15	15	-	15	15
55	-	15	15	-	20	20	-	15	15
56	-	5	5	-	25	25	-	10	10
57	-	5	5	-	15	15	-	10	10
58	-	-	-	-	10	10	-	-	-
59	-	-	-	-	-	-	-	5	5
60	-	-	-	-	-	-	-	-	-
61	-	-	-	-	-	-	-	5	5
TOTAL 0/00	545	455	1000	410	590	1000	195	805	1000
SERIAL NUMBERS	-	-	148	-	-	149	-	-	150
NUMBER OF SAMPLES	-	-	1	-	-	1	-	-	1
NUMBER OF FISH MEASURED	109	91	200	82	118	200	39	161	200
MEAN LENGTH (CM)	-	-	42.4	-	-	45.1	-	-	42.1
MEAN WEIGHT (KG)	-	-	0.54	-	-	0.66	-	-	0.60
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	4½	-	-	4	-	-	4½
RANGE OF DEPTHS (FM)	-	-	150	-	-	140-160	-	-	80-86

TABLE 101

LENGTH FREQUENCIES - WITCH - 4W - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)						DANISH SEINE (COMMERCIAL)		
CATCHES/LANDINGS	LANDINGS								
MONTH	APRIL			OCTOBER			NOVEMBER		
COUNTRY	CANADA (MARITIMES)								
SEX	00	00	TOT.	00	00	TOT.	00	00	TOT.
TONNAGE	151-500			51-150					
31	-	6	6	-	-	-	-	-	8
32	-	6	6	6	-	6	-	-	32
33	12	19	31	-	-	-	-	-	16
34	6	50	56	12	-	12	-	-	48
35	12	25	37	30	-	30	-	-	16
36	12	62	74	30	6	36	-	-	48
37	12	124	136	36	6	42	-	-	72
38	25	44	69	42	30	72	-	-	96
39	37	69	106	48	24	72	-	-	72
40	25	81	106	30	24	54	-	-	72
41	25	25	50	30	18	48	-	-	64
42	12	44	56	54	36	90	-	-	32
43	31	37	68	30	65	95	-	-	40
44	12	37	49	48	36	84	-	-	56
45	19	19	38	6	48	54	-	-	40
46	-	6	6	12	30	42	-	-	40
47	6	6	12	6	54	60	-	-	56
48	12	19	31	12	48	60	-	-	56
49	6	19	25	-	12	12	-	-	8
50	-	6	6	6	24	30	-	-	32
51	-	6	6	-	30	30	-	-	16
52	-	6	6	-	18	18	-	-	16
53	-	12	12	-	24	24	-	-	16
54	-	-	-	-	18	18	-	-	24
55	-	-	-	-	-	-	-	-	8
56	-	-	-	-	12	12	-	-	8
57	-	6	6	-	-	-	-	-	-
58	-	-	-	-	-	-	-	-	8
TOTAL 0/00	264	734	998	438	563	1001	-	-	1000
SERIAL NUMBERS	-	-	155	-	-	156	-	-	157
NUMBER OF SAMPLES	-	-	1	-	-	1	-	-	1
NUMBER OF FISH MEASURED	43	118	161	73	94	167	-	-	125
MEAN LENGTH (CM)	-	-	40.0	-	-	43.3	-	-	42.0
MEAN WEIGHT (KG)	-	-	0.49	-	-	0.61	-	-	0.59
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	4 5/8	-	-	4 5/8	-	-	4 1/2
RANGE OF DEPTHS (FM)	-	-	30-95	-	-	60-80	-	-	94-110

TABLE 102 LENGTH FREQUENCIES - WINTER FLOUNDER - 4T - 1963 (FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)											
	LANDINGS											
CATCHES/LANDINGS	JULY			OCTOBER			OCTOBER			OCTOBER		
MONTH	CANADA (MARITIMES)											
COUNTRY												
SEX	00	00	Tot.	00	00	Tot.	00	00	Tot.	00	00	Tot.
TONNAGE	26-50						51-150					
24	-	-	-	-	-	-	-	-	9	-	-	-
25	-	5	5	10	-	10	-	-	9	-	10	10
26	-	10	10	10	5	15	-	-	-	5	10	15
27	25	25	50	15	10	25	-	-	18	5	-	5
28	40	55	95	40	45	85	-	-	46	20	15	35
29	20	35	55	60	90	150	-	-	28	35	35	70
30	15	80	95	60	35	95	-	-	147	70	45	115
31	50	65	115	40	100	140	-	-	101	65	80	145
32	20	75	95	15	75	90	-	-	101	80	50	130
33	30	55	85	40	55	95	-	-	156	70	55	125
34	35	70	105	30	55	85	-	-	46	30	45	75
35	20	45	65	15	30	45	-	-	92	15	50	65
36	10	65	75	10	30	40	-	-	55	30	40	70
37	5	45	50	10	35	45	-	-	55	5	25	30
38	5	35	40	5	25	30	-	-	55	-	30	30
39	5	20	25	-	10	10	-	-	37	-	35	35
40	-	-	-	-	10	10	-	-	9	-	10	10
41	-	10	10	-	5	5	-	-	-	-	20	20
42	-	15	15	-	10	10	-	-	-	-	-	-
43	-	10	10	-	5	5	-	-	28	-	5	5
44	-	-	-	-	5	5	-	-	-	-	5	5
45	-	-	-	-	-	-	-	-	-	-	-	-
46	-	-	-	-	5	5	-	-	9	-	5	5
TOTAL 0/00	280	720	1000	360	640	1000	-	-	1001	430	570	1000
SERIAL NUMBERS	-	-	135	-	-	136	-	-	138	-	-	137
NUMBER OF SAMPLES	-	-	1	-	-	1	-	-	1	-	-	1
NUMBER OF FISH MEASURED	56	144	200	72	128	200	-	-	109	86	114	200
MEAN LENGTH (CM)	-	-	32.6	-	-	32.0	-	-	33.2	-	-	32.9
MEAN WEIGHT (KG)	-	-	0.54	-	-	0.45	-	-	0.55	-	-	0.46
TOTAL WEIGHT LANDED (TONS)	-	-	-	-	-	-	-	-	-	-	-	-
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-	-	-	-	-
MESH SIZE (INCHES)	-	-	4½	-	-	4 5/8	-	-	4	-	-	4½
RANGE OF DEPTHS (FM)	-	-	20	-	-	15-20	-	-	14-20	-	-	20

TABLE 103

LENGTH FREQUENCIES - POLLOCK - 4W - 1963

(FREQUENCIES IN $\%$ - 2 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)	
CATCHES/LANDINGS	LANDINGS	
MONTH	NOVEMBER	DECEMBER
COUNTRY	CANADA (MARITIMES)	
TONNAGE	151-500	
48-49	-	5
50-51	-	-
52-53	3	-
54-55	3	5
56-57	10	-
58-59	3	10
60-61	17	5
62-63	24	29
64-65	24	39
66-67	17	25
68-69	28	44
70-71	48	59
72-73	34	59
74-75	79	108
76-77	141	98
78-79	99	142
80-81	134	108
82-83	100	93
84-85	79	74
86-87	58	54
88-89	31	20
90-91	28	15
92-93	10	5
94-95	17	-
96-97	10	5
98-99	3	-
TOTAL $\%$	1000	1002
SERIAL NUMBERS	124&125	126
NUMBER OF SAMPLES	2	1
NUMBER OF FISH MEASURED	292	204
MEAN LENGTH (CM)	78.3	76.7
MEAN WEIGHT (KG)	5.11	4.80
TOTAL WEIGHT LANDED (TONS)	-	-
ESTIMATED NUMBER LANDED	-	-
MESH SIZE (INCHES)	4 3/4	4 5/8
RANGE OF DEPTHS (FM)	17-30	25-42

TABLE 104

LENGTH FREQUENCIES - POLLOCK - 4X - 1963

(FREQUENCIES IN 0/00 - 2 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)		
	LANDINGS		
CATCHES/LANDINGS			
MONTH	JUNE	SEPTEMBER	NOVEMBER
COUNTRY	CANADA (MARITIMES)		
TONNAGE	51-150		
32-33	-	-	8
34-35	2	7	8
36-37	-	-	24
38-39	4	-	56
40-41	10	7	64
42-43	21	-	56
44-45	37	-	72
46-47	39	13	40
48-49	89	7	72
50-51	144	7	40
52-53	148	7	56
54-55	138	20	40
56-57	89	-	72
58-59	78	7	-
60-61	33	47	24
62-63	60	33	32
64-65	37	13	24
66-67	29	53	16
68-69	21	33	40
70-71	10	73	56
72-73	2	120	24
74-75	4	140	40
76-77	4	147	48
78-79	-	113	40
80-81	-	100	32
82-83	-	40	8
84-85	-	7	8
86-87	-	-	-
88-89	-	-	-
90-91	-	-	-
92-93	-	7	-
TOTAL 0/00	999	1001	1000
SERIAL NUMBERS	119-121	122	123
NUMBER OF SAMPLES	3	1	1
NUMBER OF FISH MEASURED	485	150	125
MEAN LENGTH (CM)	54.5	72.2	56.5
MEAN WEIGHT (KG)	2.15	4.72	-
TOTAL WEIGHT LANDED (TONS)	-	-	-
ESTIMATED NUMBER LANDED	-	-	-
MESH SIZE (INCHES)	4 3/8-4 5/8	4 3/8	4 1/2
RANGE OF DEPTHS (FM)	50-80	30-65	30-70

TABLE 105

LENGTH FREQUENCIES - SILVER HAKE - 4W - 1963

(FREQUENCIES IN 0/00 - 2 CM GROUPS)

GEAR	OTTER TRAWL							
	(COMMERCIAL)				(RESEARCH)			
CATCHES/LANDINGS	CATCHES							
MONTH	APRIL	MAY	AUGUST	SEPTEMBER	JANUARY	FEBRUARY	OCTOBER	NOVEMBER
COUNTRY	U. S. S. R.							
TONNAGE	NK							
14-15	-	-	-	-	-	-	1	-
16-17	-	-	-	-	-	-	1	-
18-19	-	-	-	-	-	-	10	-
20-21	-	3	-	-	7	16	22	-
22-23	-	35	14	8	34	53	7	-
24-25	2	84	47	33	292	365	31	7
26-27	4	123	214	165	414	359	184	98
28-29	53	187	261	217	139	118	326	317
30-31	68	216	197	237	76	67	205	244
32-33	117	173	137	174	28	12	92	155
34-35	173	86	56	70	7	4	51	97
36-37	316	51	37	41	-	-	22	60
38-39	102	23	20	32	-	-	20	17
40-41	69	12	8	11	-	2	16	4
42-43	21	4	7	6	-	1	5	1
44-45	41	2	-	2	1	-	2	-
46-47	26	1	-	3	-	1	1	-
48-49	8	-	-	-	-	-	4	-
50-51	-	-	-	1	1	1	-	-
52-53	-	-	-	-	1	-	-	-
54-55	-	-	-	-	-	-	-	-
56-57	-	-	1	-	-	1	-	-
58-59	-	-	1	-	-	-	-	-
TOTAL 0/00	1000	1000	1000	1000	1000	1000	1000	1000
SERIAL NUMBERS	-	-	-	-	-	-	-	-
NUMBER OF SAMPLES	4	30	8	5	5	2	5	2
NUMBER OF FISH MEASURED	1228	10420	2400	1500	1481	725	2130	798
MEAN LENGTH (CM)	36.1	30.2	29.8	30.5	26.6	26.2	29.5	30.5
MEAN WEIGHT (KG)	0.386	0.227	0.216	0.237	0.150	0.142	0.195	0.204
TOTAL WEIGHT LANDED (TONS)	5048	12243.2	5409	7581.4	9	1.5	8	3
ESTIMATED NUMBER LANDED	-	-	-	-	-	-	-	-
MESH SIZE (MM)	40	40	40	40	40	40	40	40
RANGE OF DEPTHS (FM)	50-110	90-140	40-100	40-90	70-100	55-110	60-110	60-110

TABLE 106 LENGTH FREQUENCIES - SILVER HAKE - 5Z - 1963 (FREQUENCIES IN 0/00 - 2 CM GROUPS)

GEAR	OTTER TRAWL			
	(COMMERCIAL)		(RESEARCH)	
CATCHES/LANDINGS	CATCHES			
MONTH	JUNE	JULY	MAY	AUGUST
COUNTRY	U. S. S. R.			
TONNAGE	NK			
22-23	3	3	-	48
24-25	14	15	5	36
26-27	54	130	35	154
28-29	183	239	162	309
30-31	337	296	277	254
32-33	237	158	184	105
34-35	117	76	123	57
36-37	31	32	93	20
38-39	16	20	48	15
40-41	4	5	27	2
42-43	1	12	12	-
44-45	1	5	10	-
46-47	1	2	13	-
48-49	1	4	3	-
50-51	-	1	5	-
52-53	-	-	2	-
54-55	-	-	1	-
56-57	-	1	-	-
58-59	-	-	-	-
60-61	-	1	-	-
TOTAL 0/00	1000	1000	1000	1000
SERIAL NUMBERS	-	-	-	-
NUMBER OF SAMPLES	37	13	9	1
NUMBER OF FISH MEASURED	11167	3935	2686	450
MEAN LENGTH (CM)	31.1	30.8	32.8	29.4
MEAN WEIGHT (KG)	0.246	0.239	0.325	0.209
TOTAL WEIGHT LANDED (TONS)	38018.8	21443.9	2	1.5
ESTIMATED NUMBER LANDED	-	-	-	-
MESH SIZE (MM)	40	40	40	40
RANGE OF DEPTHS (FM)	50-120	40-110	50-110	40-110

TABLE 107

AGE FREQUENCIES - SILVER HAKE - 4W - 1963

(FREQUENCIES IN ‰)

GEAR		OTTER TRAWL (COMMERCIAL)											
CATCHES/LANDINGS		AUGUST						SEPTEMBER					
MONTH		AUGUST						SEPTEMBER					
COUNTRY		U. S. S. R.											
TONNAGE		NK											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1961	2	19	3	36 ¹⁾	24.5	24.5	24.5	31	22	53	25.0	26.1	25.4
1960	3	340	276	64 ²⁾	27.5	28.6	28.1	290	313	603	28.3	28.6	28.5
1959	4	131	156	287	31.5	32.2	31.9	98	159	257	32.3	35.1	34.1
1958	5	6	30	36	35.5	37.0	36.8	14	70	84	34.9	38.6	38.1
1957	6	-	-	-	-	-	-	3	-	3	40.7	-	40.7
TOTAL ‰		496	465	1000				436	564	1000			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	4				-	-	3			
NUMBER OF FISH AGED		183	170	367				155	200	355			
MEAN AGE		3.25	3.45	3.32				3.23	3.49	3.43			
MEAN WEIGHT (KG)		-	-	0.216				-	-	0.237			
TOTAL WEIGHT LANDED (TONS)		-	-	5409				-	-	7581.4			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH SIZE (MM)		-	-	40				-	-	40			
RANGE OF DEPTHS (FM)		-	-	40-100				-	-	40-90			

(CONT'D)

GEAR		OTTER TRAWL (COMMERCIAL)											
CATCHES/LANDINGS		OCTOBER						NOVEMBER					
MONTH		OCTOBER						NOVEMBER					
COUNTRY		U. S. S. R.											
TONNAGE		NK											
YEAR-CLASS	AGE	‰ FREQUENCY			MEAN LENGTH			‰ FREQUENCY			MEAN LENGTH		
		00	99	TOT.	00	99	TOT.	00	99	TOT.	00	99	TOT.
1961	2	17	-	17	26.5	-	26.5	-	17	17	-	28.5	28.5
1960	3	360	269	629	28.7	29.6	29.0	231	160	391	29.1	31.5	31.1
1959	4	74	189	263	32.1	33.4	33.0	74	322	396	32.4	35.8	35.1
1958	5	6	62	68	36.5	40.1	39.8	-	195	195	-	40.1	40.1
1957	6	-	23	23	-	47.0	47.0	-	-	-	-	-	-
TOTAL ‰		457	543	1000				305	694	1000			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	2				-	-	2			
NUMBER OF FISH AGED		80	95	175				53	121	174			
MEAN AGE		3.15	3.70	3.47				3.24	4.0	3.77			
MEAN WEIGHT (KG)		-	-	0.195				-	-	0.204			
TOTAL WEIGHT LANDED (TONS)		-	-	8				-	-	3			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH SIZE (MM)		-	-	40				-	-	40			
RANGE OF DEPTHS (FM)		-	-	60-110				-	-	60-110			

- 1) 2c - 14‰ JW
- 2) 3c - 25‰ JW

TABLE 107
(CONT'D)

AGE FREQUENCIES - SILVER HAKE - 4W - 1963

(FREQUENCIES IN 0/00)

GEAR		OTTER TRAWL (RESEARCH)											
CATCHES/LANDINGS		CATCHES											
MONTH		JANUARY						FEBRUARY					
COUNTRY		U. S. S. R.											
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.
1961	2	140	90	240 ¹⁾	24.5	24.3	24.3	204	85	299 ¹⁾	24.5	24.3	24.3
1960	3	160	250	410	27.1	26.9	26.9	140	234	374	26.5	26.6	26.5
1959	4	90	190	280	29.4	30.3	29.9	138	169	307	28.8	29.0	28.6
1958	5	-	-	-	-	-	-	-	10	10	-	36.5	36.5
1957	6	10	20	30	38.5	39.5	39.2	-	-	-	-	-	-
1956	7	-	10	10	-	44.5	44.5	-	-	-	-	-	-
1955	8	-	10	10	-	48.5	48.5	-	10	10	-	50.5	50.5
1954	9	-	-	-	-	-	-	-	-	-	-	-	-
1953	10	-	20	20	-	58.5	58.5	-	-	-	-	-	-
TOTAL 0/00		400	590	1000				482	508	1000			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	1				-	-	1			
NUMBER OF FISH AGED		40	59	100				45	48	94			
MEAN AGE		2.95	3.66	3.36				2.86	3.30	3.08			
MEAN WEIGHT (KG)		-	-	0.15				-	-	0.14			
TOTAL WEIGHT LANDED (TONS)		-	-	2				-	-	3			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH SIZE (MM)		-	-	40				-	-	40			
RANGE OF DEPTHS (FM)		-	-	70-110				-	-	50-110			

GEAR		OTTER TRAWL (RESEARCH)											
CATCHES/LANDINGS		CATCHES											
MONTH		APRIL						MAY					
COUNTRY		U. S. S. R.											
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.
1961	2	10	-	10	24.5	-	24.5	-	-	-	-	-	-
1960	3	20	10	30	28.5	30.5	29.1	177	92	269	26.8	27.3	26.9
1959	4	100	380	480	30.9	33.5	33.0	291	280	571	30.0	31.8	30.8
1958	5	10	360	370	36.5	38.9	38.5	11	145	156	33.6	35.8	35.7
1957	6	-	110	110	-	46.1	46.1	-	2	2	-	42.5	42.5
1956	7	-	-	-	-	-	-	-	2	2	-	51.5	51.5
TOTAL 0/00		140	860	1000				479	521	1000			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	1				-	-	6			
NUMBER OF FISH AGED		14	86	100				382	412	794			
MEAN AGE		3.79	4.66	4.54				3.66	4.12	3.90			
MEAN WEIGHT (KG)		-	-	0.39				-	-	0.228			
TOTAL WEIGHT LANDED (TONS)		-	-	5048				-	-	13143			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH SIZE (MM)		-	-	40				-	-	40			
RANGE OF DEPTHS (FM)		-	-	50-110				-	-	90-140			

1) 2 - 1JW - 10 0/00

TABLE 108

AGE FREQUENCIES - SILVER HAKE - 5Z - 1963

(FREQUENCIES IN 0/00)

GEAR		OTTER TRAWL (RESEARCH)											
CATCHES/LANDINGS		CATCHES											
MONTH		MAY						JUNE					
COUNTRY		U. S. S. R.											
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.
1960	3	120	20	143 ¹⁾	28.2	28.9	28.3	132	36	168	27.8	28.8	28.1
1959	4	431	149	580	31.4	31.9	31.5	341	324	665	30.5	31.8	31.1
1958	5	16	189	205	35.2	37.2	37.1	13	133	146	35.4	35.6	35.5
1957	6	6	39	45	45.5	45.7	45.6	-	12	12	-	45.5	45.5
1956	7	-	10	10	-	53.1	53.1	-	9	9	-	52.5	52.5
1955	8	-	17	17	-	54.0	54.0	-	-	-	-	-	-
TOTAL 0/00		573	424	1000				486	514	1000			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	3				-	-	5			
NUMBER OF FISH AGED		177	130	308				146	155	301			
MEAN AGE		3.84	4.82	4.25				3.76	4.60	4.13			
MEAN WEIGHT (KG)		-	-	0.325				-	-	0.246			
TOTAL WEIGHT LANDED (TONS)		-	-	2				-	-	38018.8			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH SIZE (MM)		-	-	40				-	-	40			
RANGE OF DEPTHS (FM)		-	-	50-110				-	-	50-120			
(CONT'D)													
GEAR		OTTER TRAWL (RESEARCH)											
CATCHES/LANDINGS		CATCHES											
MONTH		JULY						AUGUST					
COUNTRY		U. S. S. R.											
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.
1961	2	2	-	2	24.5	-	24.5	-	-	-	-	-	-
1960	3	224	91	329 ²⁾	28.4	29.2	28.7	384	92	476	29.9	29.5	29.8
1959	4	244	236	480	31.5	32.4	31.9	203	69	272	32.3	32.5	32.4
1958	5	12	105	117	34.8	38.5	38.1	69	183	252	34.5	37.2	36.5
1957	6	-	29	29	-	46.0	46.0	-	-	-	-	-	-
1956	7	-	20	20	-	50.6	50.6	-	-	-	-	-	-
1955	8	-	14	14	-	56.8	56.8	-	-	-	-	-	-
1954	9	-	9	9	-	59.6	59.6	-	-	-	-	-	-
TOTAL 0/00		482	504	1000				656	344	1000			
SERIAL NUMBERS		-	-	-				-	-	-			
NUMBER OF SAMPLES		-	-	7				-	-	1			
NUMBER OF FISH AGED		259	273	539				29	15	44			
MEAN AGE		3.55	4.46	4.34				3.52	4.27	3.78			
MEAN WEIGHT (KG)		-	-	0.325				-	-	0.290			
TOTAL WEIGHT LANDED (TONS)		-	-	21443.9				-	-	1.5			
ESTIMATED NUMBER LANDED		-	-	-				-	-	-			
MESH SIZE (MM)		-	-	40				-	-	40			
RANGE OF DEPTHS (FM)		-	-	40-110				-	-	40-110			

1) 3 - 1JW - 3 0/00

2) 3 - 7JW - 14 0/00

TABLE 109

AGE/LENGTH KEYS AND FREQUENCIES (SILVER HAKE) - 1969

(AVAILABLE ON REQUEST FROM THE SECRETARIAT)

IN ACCORDANCE WITH A RECOMMENDATION MADE BY THE RESEARCH AND STATISTICS COMMITTEE AT THEIR ANNUAL MEETING IN 1962, AGE/LENGTH KEYS AND FREQUENCIES WILL NOT BE PUBLISHED BUT ARE TO BE DEPOSITED IN THE SECRETARIAT AND MADE AVAILABLE TO MEMBER COUNTRIES ON REQUEST. THE FOLLOWING AGE/LENGTH KEYS AND FREQUENCIES FOR SILVER HAKE ARE NOW ON FILE IN THE SECRETARIAT.

GEAR - OTTER TRAWL

U. S. S. R.

DIVISION	MONTH
4W	JANUARY FEBRUARY APRIL MAY AUGUST SEPTEMBER OCTOBER NOVEMBER
5Z	MAY JUNE JULY AUGUST

TABLE 110

LENGTH FREQUENCIES - HERRING - 52 - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL (COMMERCIAL)					
CATCHES/LANDINGS	CATCHES					
MONTH	APRIL	JULY	AUGUST	SEPTEMBER	OCTOBER	NK
COUNTRY	U. S. S. R.					
TONNAGE	NK					
16	2	1	-	-	-	-
17	6	4	-	-	-	1
18	26	16	-	-	1	9
19	29	28	-	-	9	12
20	51	39	20	12	75	21
21	66	55	64	48	327	29
22	65	57	178	169	341	28
23	34	38	160	177	150	28
24	22	35	86	89	34	57
25	53	64	58	59	20	135
26	150	125	88	109	17	232
27	214	194	143	133	9	228
28	247	208	125	133	10	148
29	34	108	52	54	6	57
30	1	23	26	15	1	13
31	-	5	-	2	-	2
TOTAL 0/00	1000	1000	1000	1000	1000	1000
SERIAL NUMBERS	-	-	-	-	-	-
NUMBER OF SAMPLES	23	16	22	21	8	29
NUMBER OF FISH MEASURED	7120	7962	6279	5657	2604	8279
MEAN LENGTH (CM)	25.12	25.70	24.79	24.88	21.99	25.88
MEAN WEIGHT (KG)	0.166	0.175	0.160	0.161	0.124	0.157
TOTAL WEIGHT LANDED (TONS)	91.7	18032.5	18307.4	22725.6	85117.2	1461.9
ESTIMATED NUMBER LANDED	-	-	-	-	-	-
MESH SIZE (MM)	40	40	40	40	40	40
RANGE OF DEPTHS (FM)	50-100	50-100	30-60	30-60	30-60	80-100

TABLE 110
(CONT'D)

LENGTH FREQUENCIES - HERRING - 52 - 1963

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	OTTER TRAWL		DRIFT NETS	
	(RESEARCH)			
CATCHES/LANDINGS	CATCHES			
MONTH	FEBRUARY	MARCH	MAY	NOVEMBER
COUNTRY	U. S. S. R.			
TONNAGE	NK			
16	-	-	16	6
17	6	59	31	14
18	6	74	43	9
19	45	101	59	10
20	51	95	79	27
21	11	71	99	108
22	17	43	114	310
23	8	38	38	310
24	28	47	56	148
25	82	59	125	12
26	163	98	178	19
27	282	130	126	12
28	163	127	32	9
29	113	58	4	4
30	22	-	-	2
31	-	-	-	-
32	-	-	-	-
33	3	-	-	-
TOTAL 0/00	1000	1000	1000	1000
SERIAL NUMBERS	-	-	-	-
NUMBER OF SAMPLES	1	2	8	8
NUMBER OF FISH MEASURED	355	622	1549	2357
MEAN LENGTH (CM)	26.04	23.36	23.22	22.54
MEAN WEIGHT (KG)	0.181	0.142	0.161	0.113
TOTAL WEIGHT LANDED (TONS)	1.5	3	2	2
ESTIMATED NUMBER LANDED	-	-	-	-
MESH SIZE (MM)	40	40	40	40
RANGE OF DEPTHS (FM)	30-110	80-100	30-100	30-100

TABLE 111

AGE FREQUENCIES - HERRING - 5Z - 1963

(FREQUENCIES IN $\%$)

GEAR		OTTER TRAWL (COMMERCIAL)					
CATCHES/LANDINGS		CATCHES					
MONTH		AUGUST		SEPTEMBER		OCTOBER	
COUNTRY		U. S. S. R.					
TONNAGE		NK					
YEAR-CLASS	AGE	$\%$ FREQUENCY	MEAN LENGTH	$\%$ FREQUENCY	MEAN LENGTH	$\%$ FREQUENCY	MEAN LENGTH
		TOT.	TOT.	TOT.	TOT.	TOT.	TOT.
1961	2	-	-	31	21.9	667	21.2
1960	3	679	22.37	310	23.4	296	22.9
1959	4	131	25.02	239	25.7	23	24.9
1958	5	154	27.33	367	27.5	14	27.5
1957	6	36	28.90	53	29.3	-	-
TOTAL $\%$		1000		1000		1000	
SERIAL NUMBERS		-		-		-	
NUMBER OF SAMPLES		6		9		4	
NUMBER OF FISH AGED		600		888		420	
MEAN AGE		3.55		4.10		2.38	
MEAN WEIGHT (KG)		0.160		0.161		0.124	
TOTAL WEIGHT LANDED (TONS)		18307.4		22725.8		5117.2	
ESTIMATED NUMBER LANDED		-		-		-	
MESH SIZE (MM)		40		40		40	
RANGE OF DEPTHS (FM)		30-60		30-60		30-60	
(CONT'D)							
GEAR		OTTER TRAWL (RESEARCH)					
CATCHES/LANDINGS		CATCHES					
MONTH		MAY			NOVEMBER		
COUNTRY		U. S. S. R.					
TONNAGE		NK					
YEAR-CLASS	AGE	$\%$ FREQUENCY	MEAN LENGTH	$\%$ FREQUENCY	MEAN LENGTH	$\%$ FREQUENCY	MEAN LENGTH
		TOT.	TOT.	TOT.	TOT.	TOT.	TOT.
1961	2	-	-	250	21.5	-	-
1960	3	390	20.96	520	23.2	-	-
1959	4	122	25.35	80	26.0	-	-
1958	5	488	26.40	150	27.7	-	-
TOTAL $\%$		1000		1000			
SERIAL NUMBERS		-		-		-	
NUMBER OF SAMPLES		3		1			
NUMBER OF FISH AGED		282		100			
MEAN AGE		4.1		3.13			
MEAN WEIGHT (KG)		0.161		0.113			
TOTAL WEIGHT LANDED (TONS)		2		2			
ESTIMATED NUMBER LANDED		-		-			
MESH SIZE (MM)		24		24			
RANGE OF DEPTHS (FM)		30-110		30-100			

TABLE 112

AGE/LENGTH KEYS AND FREQUENCIES (HERRING) - 1963

(AVAILABLE ON REQUEST FROM THE SECRETARIAT)

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U. S. S. R.

GEAR	DIVISION	MONTH
DRIFT NETS	52	MAY NOVEMBER
OTTER TRAWL	52	AUGUST SEPTEMBER OCTOBER

