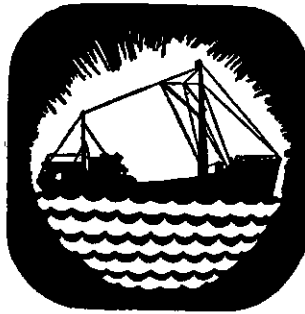


INTERNATIONAL COMMISSION

FOR THE

NORTHWEST ATLANTIC FISHERIES



SAMPLING YEARBOOK

VOLUME 12

for the year 1967

Prepared by G.F. Schrader

Issued from the Headquarters of the Commission
Dartmouth, N. S., Canada

1969

PREFACE

This volume of the Sampling Yearbook presents length and age data for cod, haddock, redfish, silver hake, American plaice, Greenland halibut, winter flounder, witch, yellowtail, pollock, red hake and white hake collected during the calendar year 1967 in the ICNAF Area. Data has been contributed by Canada, Denmark, Federal Republic of Germany, France, Norway, Poland, Portugal, Spain, USSR, UK and USA. Iceland did not collect samples from the commercial fishery and Italy did not fish during 1967.

Presentation of the length and age data follows the 1964 recommendations of the Sampling Subcommittee (Redbook 1964, Pt. 1, p. 36-37):

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

To fulfill the recommendations of the 1968 meeting of the Subcommittee on Statistics and Sampling (Redbook 1968, Pt. I, p. 69-70):

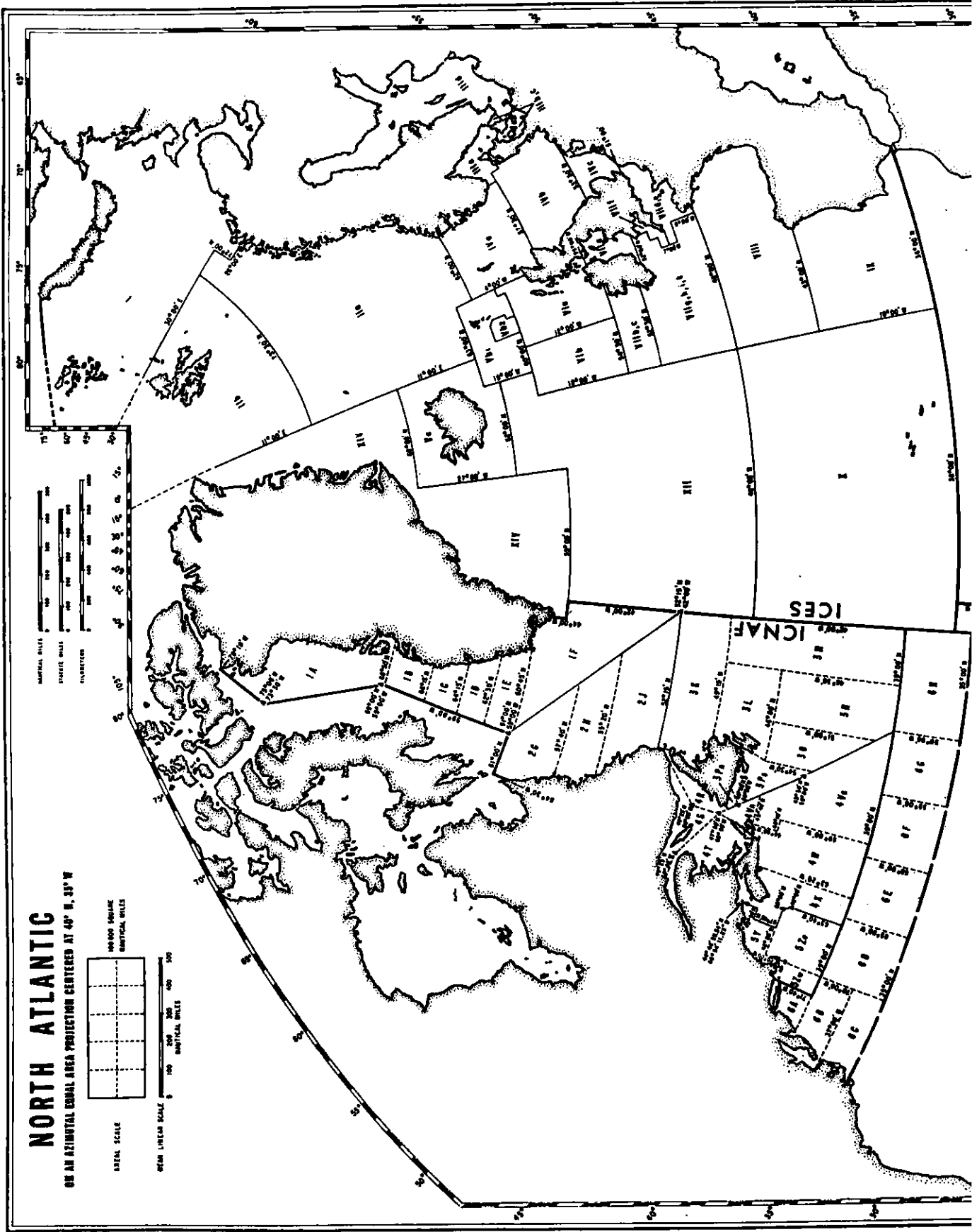
- a) information on length and age data collected by countries and not previously reported on ICNAF sampling forms, is presented in tabular form in the section on "Notes on Sampling Data" (p. xi-xvii) and,
- b) quantitative information on length and age sampling by species, subareas and countries is summarized in relation to nominal catches in the years 1966 and 1967 (p. 206-213).

No herring sampling data are published in this volume of the Sampling Yearbook. In accordance with a recommendation of the 1968 meeting of the Subcommittee on Herring and Other Pelagic Fishes (Redbook 1968, Pt. I, p. 86), consideration will be given at the 1969 Meeting of the Standing Committee on Research and Statistics to publishing herring length and age-length key data back to 1961 in a special issue of the Sampling Yearbook.

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

L. R. Day
Executive Secretary

April, 1969



NORTH ATLANTIC
ON AN AZIMUTHAL EQUAL AREA PROJECTION CENTERED AT 40° N, 30° W

100 000 SQUARE
NAUTICAL MILES

SCALE

100 200 300 400 500
NAUTICAL MILES

100 200 300 400 500
NAUTICAL MILES

100 200 300 400 500
NAUTICAL MILES

100 200 300 400 500
NAUTICAL MILES

100 200 300 400 500
NAUTICAL MILES

LIST OF CONTENTS

	Pages
Preface - L. R. Day	ii
Notes on Sampling Data	xi
Canada (Maritimes and Quebec)	xi
Canada (Newfoundland)	xii
Denmark (Greenland)	xiii
France (Metropolitan)	xiii
Germany, Federal Republic	xiii
Norway	xiv
Poland	xiv
Portugal	xiv
Spain	xiv
Union of Soviet Socialist Republics	xiv
United Kingdom	xiv
United States	xvii

COD

1967	<u>Length Frequencies</u>	
Table 1	Division 1B	1
2	Division 1C	2
3	Division 1D	3
4	Division 1E	5
5	Division 1F	6
6	East Greenland	7
7	Division 2G	8
8	Division 2H	9
9	Division 2J	10
10	Division 3K	13
11	Division 3L	15
12	Division 3M	19
13	Division 3N	20
14	Division 3O	22
15	Division 3Pn	23
16	Division 3Ps	24
17	Division 4R	26
18	Division 4S	27
19	Division 4T	28
20	Division 4Vn	30
21	Division 4Vs	31
22	Division 4W	32
23	Division 4X (SOUTH)	33
24	Division 5Z	34

COD (cont'd)

		Pages
1967	<u>Age/Length Keys</u>	
Table 25	Division 1A	36
	26 Division 1B	37
	27 Division 1C	38
	28 Division 1D	39
	29 Division 1E	41
	30 Division 1F	43
	<u>Age/Length Tables</u>	
Table 31	Division 1B	46
	32 Division 1C	48
	33 Division 1D	51
	34 Division 1E	56
	35 Division 1F	59
	36 South East Greenland	66
	37 East Greenland	70
	38 Division 2H	74
	39 Division 2J	76
	40 Division 3K	82
	41 Division 3L	84

HADDOCK

	<u>Length Frequencies</u>	
Table 42	Division 3O	91
	43 Division 3Ps	92
	44 Division 4R	93
	45 Division 4Vn	94
	46 Division 4Vs	95
	47 Division 4W	96
	48 Division 4X (NORTH)	97
	49 Division 4X (SOUTH)	99
	50 Division 5Y	101
	51 Division 5Z	102
	<u>Age/Length Tables</u>	
Table 52	Division 5Y	103
	53 Division 5Z	106

REDFISH

	<u>Length Frequencies</u>	
Table 54	Division 1D	110
	55 Division 2G	113
	56 Division 2H	114
	57 Division 2J	115

REDFISH (cont'd)

		Pages
1967	<u>Length Frequencies</u>	
Table 58	Division 3K	118
59	Division 3L	119
60	Division 3M	120
61	Division 3N	121
62	Division 3O	122
63	Division 3Pn	124
64	Division 3Ps	125
65	Division 4R	127
66	Division 4S	129
67	Division 4T	130
68	Division 4R, 4S and 4T	131
69	Division 4Vn	133
70	Division 4Vs	134
71	Division 4V	135
72	Division 4W	136
73	Division 4X	137
74	Division 5Y	139
75	Division 5Z	141
 <u>Age Frequencies</u>		
Table 76	Division 2J	142
77	Division 3K	143
78	Division 3L	144
79	Division 3M	145
 <u>Age/Length Keys and Frequencies</u>		
Table 80	Listing of available data	146

SILVER HAKE

<u>Length Frequencies</u>		
Table 81	Division 4W	147
82	Division 5Y and 5Z	148
83	Division 5Z	149
 <u>Age Frequencies</u>		
Table 84	Division 4W	151
85	Division 5Y and 5Z	152
86	Division 5Z	154
 <u>Age/Length Keys and Frequencies</u>		
Table 87	Listing of available data	157

AMERICAN PLAICE

<u>Length Frequencies</u>		
Table 88	Division 2J	158
89	Division 3L	159

AMERICAN PLAICE (cont'd)

		Pages
1967	<u>Length Frequencies</u>	
Table 90	Division 3N	162
91	Division 3O	164
92	Division 3Ps	166
93	Division 4T	167
94	Division 4Vs	168
95	Division 4V and 4W	170
96	Division 4W	171
97	Division 5Z	172

GREENLAND HALIBUT

		Pages
	<u>Length Frequencies</u>	
Table 98	Division 1D	173
99	Division 1F	177
100	Division 2J	178
101	Division 3K	179

WINTER FLOUNDER

		Pages
	<u>Length Frequencies</u>	
Table 102	Division 4T	180

WITCH

		Pages
	<u>Length Frequencies</u>	
Table 103	Division 3O	181
104	Division 3Ps	182
105	Division 4Vn	183
106	Division 4Vs	184

YELLOWTAIL

		Pages
	<u>Length Frequencies</u>	
Table 107	Division 3L	185
108	Division 3N	186
109	Division 4Vs	187
110	Division 5Z	188
	<u>Age Frequencies</u>	
Table 111	Division 5Z	192

POLLOCK

	<u>Length Frequencies</u>	Pages
1967		
Table 112	Division 4Vs	198
	113 Division 4W	199
	114 Division 4X (SOUTH)	200
	115 Division 5Z	201

WHITE HAKE

	<u>Length Frequencies</u>	
Table 116	Division 4T	202
	117 Division 4W and 4X	203
	118 Division 4X (SOUTH)	204

RED HAKE

	<u>Length Frequencies</u>	
Table 119	Division 5Z	205

Summary of Length and Age Sampling by Species, Subarea and Country in Relation to Nominal Catch in 1966 and 1967	207
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APPENDIX

Correction to Sampling Yearbook, Volume 10	215
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NOTES ON THE SAMPLING DATA

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

CANADA (Maritimes and Quebec)

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

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

Landings of cod and haddock are normally culled by market category. Cod are divided into Large (Steak) and Medium (Market) sizes at about 10 pounds fresh gutted weight. Small (scrod) cod and haddock are mainly less than 2 1/2 pounds gutted weight. Small round haddock are sometimes landed in a separate market category. These market categories are usually sampled approximately in proportion to the relative numbers of each in a trip landing. When the final weighout is available the length frequency of the landings is determined by applying weighting factors to each category. Other species reported are not usually culled by market category. Length frequencies by sexes are usually given for redfish, American plaice, yellowtail, witch, and winter flounder. In 1967 some of the samples were not examined for sex and total frequencies only are available for these samples.

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

Fork length measurements are recorded to the nearest centimetre for each fish. These measurements are reported by 3-cm groups for cod and pollock, 2-cm groups for haddock, white hake, 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. Combined samples by tonnage classes are unweighted.

CANADA (Newfoundland)

Reported by: A. M. Fleming
A. T. Pinhorn
A. W. May
J. O'Brien

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

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

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

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

M = Manilla
N = Nylon
P = Polypropylene
L = large size mesh
S = small size mesh

In a few cases no information was available on mesh size or trawl material. In these cases the space for the information was completed with a dash.

The following table presents information on sampling data for Greenland halibut which is the only species sampled commercially (excluding herring) for which length and age data are not reported on the ICNAF sampling forms.

Greenland Halibut - Commercial Sampling

<u>Year</u>	<u>Area</u>	<u>Month</u>	<u>Gear</u>	<u>Lengths</u>	<u>Ages</u>	<u>Remarks</u>
1965	3L	Aug	Longline	191	20	
		Sept	Longline	206	21	
1966	3L	May	Gillnet	215	21	
		June	Gillnet	891	120	
		July	Gillnet	549	162	
		Aug	Gillnet	951	206	
		Sept	Gillnet	965	80	
		Oct	Gillnet	401	41	
		Nov	Gillnet	272	8	
		May	Longline	722	73	
		June	Longline	249	133	
	3L	July	Longline	419	42	
		Aug	Longline	67	7	
		May	Long & Gilln	141	18	Mixed gears
	Aug	Long & Gilln	221	21		
	Oct	Long & Gilln	202	21		
1967	3L	May	Gillnet	197	20	
		June	Gillnet	841	83	
		July	Gillnet	395	148	
		Aug	Gillnet	124	124	
1968	3L	March	Gillnet	211	21	
		April	Gillnet	408	43	
		May	Gillnet	401	43	
		June	Gillnet	600	71	
		July	Gillnet	602	71	
		Aug	Gillnet	400	52	
		Sept	Gillnet	200	25	

DENMARK (Greenland)

Reported by: Sv. Aa. Horsted

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

FRANCE (Metropolitan)

Reported by: P. Decamps

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

GERMANY, FEDERAL REPUBLIC

Reported by: Arno Meyer

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

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 issues of the Sampling Yearbook prior to Volume No. 8 for 1963.

POLAND

Reported by: F. Chrzan

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

PORTUGAL

Reported by: Ruy Monteiro

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

SPAIN

Reported by: O. Cendrero
A. Figueras

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

UNION OF SOVIET SOCIALIST REPUBLICS

Reported by: A. Alexeev

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

UNITED KINGDOM

Reported by: D. J. Garrod

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

Editor's Note:

The following lists information submitted for the first time by the United Kingdom on age-length key data for cod sampled annually from 1962 to 1967 inclusive. The keys are on file in the Secretariat.

Cod

Gear: Otter Trawl (Commercial except where otherwise indicated)
 Structures used in age determination: Otoliths

<u>Year</u>	<u>Division</u>	<u>Month</u>	<u>Age/Lengths</u>
1962	1B	Apr-Jun	8
		Oct-Dec	12
	1C	Jan-Mar	68
		Jul-Sep	8
		Oct-Dec	5
	1D	Oct-Dec	24
	1E	Apr-Jun	7
	1F	Jan-Mar	28
		Jul-Sep	8
		Oct-Dec	49
	3K	Jan-Mar	66
		Oct-Dec	9
	3M	Jul-Sep	26
	3O	Jan-Mar	94
		Apr-Jun	34
		Oct-Dec	9
	3P	Oct-Dec	12
1963	1B	Jul-Sep	83
		Oct-Dec	11
	1C	Jan-Mar	20
		Apr-Jun	15
		Jul-Sep	36
		Oct-Dec	19
	1D	Apr-Jun	179
		Jul-Sep	30
		Oct-Dec	14
	1E	Apr-Jun	79
		Oct-Dec	17
	1F	Jan-Mar	35
		Jul-Sep	51
		Oct-Dec	48
	3K	Apr-Jun	98
	3L	Jan-Mar	18
		Apr-Jun	123
Jul-Sep		40	
Oct-Dec		76	

Cod (continued)

<u>Year</u>	<u>Division</u>	<u>Month</u>	<u>Age/Lengths</u>	
1963	3M	Jul-Sep	60	
		Oct-Dec	26	
	3O	Jan-Mar	114	
		Oct-Dec	25	
	3P	Jan-Mar	72	
		Apr-Jun	5	
		Oct-Dec	7	
	1964	1D	Apr-Jun	78
			Jul-Sep	38
Oct-Dec			28	
1E		Apr-Jun	95	
		Jul-Sep	20	
1F		Jan-Mar	30	
		Apr-Jun	8	
		Jul-Sep	24	
		Oct-Dec	89	
1965		1B/1D	Apr-Jun	21
			Oct-Dec	27
		1D	Jan-Mar	30
	Oct-Dec		26	
	1D/1E	Apr-Jun	23	
		Jul-Sep	31	
		Oct-Dec	27	
	1E	Jul-Sep	55	
		1E/1F	Apr-Jun	59
	1F	Jan-Mar	22	
		Apr-Jun	33	
		Jul-Sep	23	
		Oct-Dec	26	
1NK	NK	53		
	1966	1A	Oct	113 ^{a)}
1B		Oct	26	
		Oct	172 ^{a)}	
1C		Oct	77	
		Oct	81 ^{a)}	
1D		Jan, Jun, Apr, Sep	160	
1D/1E	Jun, Jul, Aug, Oct	294		

a) Research

Cod (continued)

<u>Year</u>	<u>Division</u>	<u>Month</u>	<u>Age/Lengths</u>
1966	1E	May, Jun, Sep, Oct	134
	1E/1F	Sep	21
	1F	Jul, Aug, Oct, Nov Oct	229 207 ^{a)}
1967	1B	Aug/Sep	53
	1B, 1C, 1D, 1F	Jun, Sep, Dec	101
	1D	Jun, Aug, Sep	201
	1D/1E	May, Jun, Jul	124
	1E	May	165 ^{b)}
	1E/1F	Aug, Sep	51
	1F	Jan, Nov, Sep	98

a) Research

b) Commercial and exploratory

UNITED STATES

Reported by: F. Dreyer

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

The following table shows available information on length and age sampling of the red hake, silver hake and yellowtail flounder stocks during the years 1962 to 1966. These data will be submitted to ICNAF in the near future.

<u>Years</u>	<u>Red hake</u>		<u>Silver hake</u>		<u>Yellowtail</u>	
	<u>Length</u>	<u>Age</u>	<u>Length</u>	<u>Age</u>	<u>Length</u>	<u>Age</u>
1966	X	--	X	X	X	X
1965	X	--	X	--	X	X
1964	X	--	X	--	X	X
1963	X	--	X	--	X	X
1962	--	--	X	--	X	X

TABLE 1 LENGTH FREQUENCIES - COD - 1B - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)	
	Catches	Landings
CATCHES/LANDINGS		
MONTH	June	September
COUNTRY	Poland	United Kingdom
TONNAGE	2600	901-1800
30	1	-
33	2	-
36	8	-
39	11	1
42	32	7
45	82	25
48	97	45
51	113	88
54	137	96
57	131	122
60	116	130
63	90	120
66	66	89
69	42	91
72	30	50
75	17	37
78	10	20
81	7	19
84	4	11
87	2	11
90	1	11
93	1	6
96	-	7
99	-	2
102	-	6
105	-	6
Total ‰	1000	1000
Serial Numbers	-	-
Number of Samples	2	1
Number of Fish Measured	3247	657
Mean Length (cm)	57.8	-
Mean Weight (kg)	-	-
Total Weight Landed (tons)	-	1149.6
Estimated Number Landed	-	493958
Mesh(mm) or Hook(no.) Size	114	-
Range of Depths (fm)	98-148	-

TABLE 2

LENGTH FREQUENCIES - COD - 1C - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl	
	(Commercial)	
CATCHES/LANDINGS	Landings	
MONTH	June	
COUNTRY	United Kingdom	
TONNAGE	901-1800	501-900
33	-	3
36	-	7
39	-	10
42	-	37
45	-	84
48	14	60
51	19	95
54	57	42
57	79	105
60	107	79
63	130	73
66	186	92
69	129	72
72	128	102
75	66	40
78	33	23
81	8	47
84	21	9
87	3	19
90	10	-
93	2	-
96	7	0
99	-	0
102	-	0
105	-	0
108	-	0
111	-	-
114	-	-
117	-	0
120	-	0
Total ‰	999	999
Serial Numbers	-	-
Number of Samples	1	1
Number of Fish Measured	281	294
Mean Length (cm)	-	-
Mean Weight (kg)	-	-
Total Weight Landed (tons)	763.6	1215.3
Estimated Number Landed	350662	668977
Mesh(mm) or Hook(no.) Size	-	-
Range of Depths (fm)	-	-

TABLE 3

LENGTH FREQUENCIES - COD - 1D - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)			Long Line (Research)		
	Catches	Landings		NK		
CATCHES/LANDINGS	June	May	June	January	February	December
MONTH	Poland	United Kingdom		Denmark (Greenland)		
TONNAGE	2600	501-900		0-50		
36	-	-	1	36	-	45
39	-	-	1	-	-	-
42	25	52	10	109	15	-
45	51	40	20	-	45	45
48	-	30	43	73	45	45
51	13	28	51	91	119	-
54	13	41	66	109	179	-
57	38	70	90	145	119	91
60	101	112	95	18	119	-
63	76	120	128	55	119	45
66	152	103	106	55	90	-
69	76	105	107	36	15	45
72	38	118	100	55	45	91
75	190	74	69	18	15	91
78	51	16	47	73	-	-
81	51	45	31	-	45	45
84	63	15	13	-	15	136
87	-	15	11	55	15	91
90	38	15	5	18	-	-
93	-	0	4	-	-	-
96	-	0	2	-	-	-
99	12	0	0	18	-	-
102	12	-	1	18	-	45
105	-	-	0	-	-	91
108	-	-	0	-	-	-
111	-	-	0	-	-	45
114	-	-	0	-	-	-
117	-	-	-	-	-	-
120	-	-	0	-	-	-
123	-	-	-	-	-	45
126	-	-	-	-	-	-
129	-	-	-	18	-	-
Total ‰	1000	999	1001	1000	1000	996
Serial Numbers	-	-	-	-	-	-
Number of Samples	1	1	10	-	-	-
Number of Fish Measured	79	255	2550	55	67	22
Mean Length (cm)	68.4	-	-	61.9	60.5	74.2
Mean Weight (kg)	-	-	-	-	-	-
Total Weight Landed (tons)	-	943.7	4014.6	-	-	-
Estimated Number Landed	-	477475	1932591	-	-	-
Mesh(mm) or Hook(no.) Size	114	-	-	-	-	-
Range of Depths (fm)	44-49	-	-	55-132	132	33-66

TABLE 3
(cont'd)

LENGTH FREQUENCIES - COD - 1D - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Hand Line			Pound Net	
	(Research)				
CATCHES/LANDINGS	NK				
MONTH	March	April	July	May	June
COUNTRY	Denmark (Greenland)				
TONNAGE	0-50				
18	-	-	-	-	1
21	-	-	-	-	35
24	-	-	-	-	68
27	-	-	-	95	84
30	-	-	-	209	95
33	-	-	-	304	126
36	-	20	-	196	105
39	59	-	25	149	128
42	118	40	114	47	157
45	323	200	203	-	124
48	103	140	114	-	64
51	103	160	127	-	12
54	88	20	44	-	1
57	59	140	44	-	-
60	44	140	76	-	-
63	59	40	76	-	-
66	15	80	44	-	-
69	-	20	19	-	-
72	29	-	25	-	-
75	-	-	19	-	-
78	-	-	6	-	-
81	-	-	25	-	-
84	-	-	13	-	-
87	-	-	13	-	-
90	-	-	6	-	-
93	-	-	-	-	-
96	-	-	-	-	-
99	-	-	6	-	-
Total ‰	1000	1000	999	1000	1000
Serial Numbers	-	-	-	-	-
Number of Samples	-	-	-	-	-
Number of Fish Measured	68	50	158	148	693
Mean Length (cm)	48.7	52.3	55.5	34.8	37.3
Mean Weight (kg)	-	-	-	-	-
Total Weight Landed (tons)	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	-	-	-
Range of Depths (fm)	22-55	27-55	22-27	-	-

TABLE 4 LENGTH FREQUENCIES - COD - IE - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl
CATCHES/LANDINGS	(Commercial)
MONTH	Landings
COUNTRY	May
TONNAGE	United Kingdom
	501-900
36	1
39	3
42	15
45	23
48	36
51	39
54	57
57	60
60	109
63	122
66	134
69	120
72	88
75	78
78	51
81	15
84	17
87	17
90	13
93	3
96	0
99	0
102	0
105	0
108	0
111	-
114	0
117	-
120	0
Total ‰	1001
Serial Numbers	-
Number of Samples	3
Number of Fish Measured	858
Mean Length (cm)	-
Mean Weight (kg)	-
Total Weight Landed (tons)	1098.9
Estimated Number Landed	516316
Mesh(mm) or Hook(no.) Size	-
Range of Depths (fm)	-

TABLE 5

LENGTH FREQUENCIES - COD - IF - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl				Hand Line	Pound Net
	(Commercial)					
CATCHES/LANDINGS	Landings				NK	
MONTH	January	August	September	November	July	July
COUNTRY	United Kingdom				Denmark (Greenland)	
TONNAGE	501-900				0-50	
27	-	-	-	-	-	13
30	-	-	-	-	-	41
33	-	-	-	-	-	84
36	-	-	3	-	-	128
39	-	22	8	-	16	169
42	1	91	34	26	249	175
45	14	159	65	44	319	152
48	84	154	111	68	200	99
51	126	117	104	66	97	56
54	104	108	133	66	59	36
57	164	162	132	65	27	19
60	184	97	107	89	16	16
63	114	33	101	141	11	7
66	116	31	62	140	-	3
69	40	16	49	90	5	3
72	19	3	23	90	-	1
75	10	0	35	38	-	-
78	15	3	10	21	-	-
81	5	0	4	16	-	-
84	1	-	10	16	-	-
87	-	-	7	4	-	-
90	-	0	2	13	-	-
93	0	1	0	4	-	-
96	-	1	0	-	-	-
99	-	0	1	-	-	-
102	-	-	-	-	-	-
105	-	-	-	-	-	-
108	-	-	-	-	-	-
111	3	-	-	-	-	-
Total ‰	1000	998	1001	997	999	1002
Serial Numbers	-	-	-	-	-	-
Number of Samples	2	1	2	1	-	-
Number of Fish Measured	561	317	672	331	185	1148
Mean Length (cm)	-	-	-	-	47.8	43.6
Mean Weight (kg)	-	-	-	-	-	-
Total Weight Landed (tons)	224.2	346.5	122.2	161.3	-	4.6
Estimated Number Landed	133799	290878	77500	75887	-	-
Mesh(mm) or Hook(no.) Size	-	-	-	-	-	24,28,35
Range of Depths (fm)	-	-	-	-	-	ca. 5

TABLE 6

LENGTH FREQUENCIES - COD - EAST GREENLAND - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl
	(Commercial)
CATCHES/LANDINGS	Landings
MONTH	May
COUNTRY	United Kingdom
TONNAGE	501-900
36	1
39	2
42	4
45	5
48	6
51	18
54	57
57	65
60	84
63	88
66	124
69	100
72	84
75	90
78	65
81	56
84	34
87	35
90	30
93	18
96	15
99	12
102	1
105	1
108	3
111	1
114	0
117	-
120	0
Total ‰	999
Serial Numbers	-
Number of Samples	2
Number of Fish Measured	480
Mean Length (cm)	-
Mean Weight (kg)	-
Total Weight Landed (tons)	441.8
Estimated Number Landed	166510
Mesh(mm) or Hook(no.) Size	-
Range of Depths (fm)	-

TABLE 7

LENGTH FREQUENCIES - COD - 2G - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Norwegian Jigger (Research)
CATCHES/LANDINGS	Catches
MONTH	August
COUNTRY	Canada (Newfoundland)
TONNAGE	Small Boat
30	2
33	-
36	19
39	51
42	49
45	77
48	127
51	143
54	161
57	141
60	98
63	80
66	33
69	14
72	-
75	2
78	2
81	2
Total ‰	1001
Serial Numbers	-
Number of Samples	2
Number of Fish Measured	573
Mean Length (cm)	53.86
Mean Weight (kg)	-
Total Weight Landed (tons)	-
Estimated Number Landed	-
Mesh(mm) or Hook(no.) Size	-
Range of Depths (fm)	4-10

TABLE 8 LENGTH FREQUENCIES - COD - 2H - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl	Trap	Norwegian Jigger
	(Research)	(Commercial)	
CATCHES/LANDINGS	Catches	Landings	
MONTH	November	August	August
COUNTRY	USSR	Canada (Newfoundland)	
TONNAGE	3500	Small Boats	
30	-	-	4
33	3	2	22
36	16	28	85
39	41	108	116
42	68	173	113
45	104	232	98
48	155	169	119
51	143	112	99
54	142	76	78
57	123	48	92
60	91	28	70
63	56	15	56
66	29	7	21
69	13	2	12
72	8	-	8
76	4	-	2
78	3	-	3
81	1	-	1
84	-	-	1
87	-	-	1
Total ‰	1000	1000	1001
Serial Numbers	-	-	-
Number of Samples	-	3	7
Number of Fish Measured	4635	538	1108
Mean Length (cm)	53.20	47.88	49.91
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	117	-	-
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	110	3 1/2-4 ¹	-
Range of Depths (fm)	119-189	10-11	6-25

¹ inches, cotton

TABLE 9

LENGTH FREQUENCIES - COD - 2J - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)						
	Catches				Landings		
CATCHES/LANDINGS	May ¹	May ²	June ³	June ⁴	January	February	November
MONTH	Poland				United Kingdom		
COUNTRY	2600				901-1800		
TONNAGE							
18	-	-	1	-	-	-	-
21	1	-	5	-	-	-	-
24	1	-	17	-	-	-	-
27	3	-	32	3	-	-	-
30	10	-	150	25	-	-	-
33	16	-	248	65	-	-	-
36	17	6	228	78	-	-	-
39	17	28	124	84	17	-	-
42	31	80	70	48	25	24	-
45	71	158	54	57	97	141	110
48	110	169	24	65	156	190	181
51	149	184	16	75	186	214	148
54	191	138	15	66	140	141	198
57	135	127	4	87	123	104	104
60	107	52	6	86	68	74	143
63	67	28	3	70	47	36	55
66	37	28	1	43	37	25	49
69	18	4	1	23	42	18	11
72	10	3	1	19	26	13	-
75	6	-	-	14	26	3	-
78	2	-	-	27	2	2	-
81	-	-	-	11	6	5	-
84	1	-	-	21	1	2	-
87	-	-	-	13	1	1	-
90	-	-	-	4	0	-	-
93	-	-	-	2	0	-	-
96	-	-	-	8	0	2	-
99	-	-	-	1	-	1	-
102	-	-	-	-	-	2	-
105	-	-	-	2	-	-	-
108	-	-	-	-	-	2	-
111	-	-	-	2	-	1	-
114	-	-	-	-	-	-	-
117	-	-	-	-	-	-	-
120	-	-	-	1	-	1	-
Total ‰	1000	1000	1000	1000	1000	1002	999
Serial Numbers	-	-	-	-	-	-	-
Number of Samples	2	1	2	1	1	1	1
Number of Fish Measured	3002	1138	2341	790	337	306	182
Mean Length (cm)	51.6	51.7	37.6	54.5	-	-	-
Mean Weight (kg)	-	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	-	-	2234.1	1041.3	799.0
Estimated Number Landed	-	-	-	-	1431563	706077	572500
Mesh(mm) or Hook(no.) Size	114	114	114	114	-	-	-
Range of Depths (fm)	202-241	208-219	118-137	98-112	-	-	-

¹ May 18
² May 23

³ June 2-6
⁴ June 21

TABLE 9 LENGTH FREQUENCIES - COD - 2J - 1967
(cont'd)

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Research)			Lone Line	Trap	
	CATCHES/LANDINGS			(Commercial)		
MONTH	Catches			Landings		
COUNTRY	September	October	November	September	June	July
TONNAGE	USSR			Canada (Newfoundland)		
	1800		3500	26-50	Small Boats	
21	-	1	-	-	-	-
24	-	2	-	-	-	-
27	-	2	1	-	-	-
30	17	9	10	-	-	-
33	55	29	45	1	-	1
36	112	74	113	3	7	9
39	202	131	141	9	17	27
42	131	127	118	19	40	56
45	136	152	122	22	59	74
48	93	121	106	31	96	93
51	95	135	82	35	98	129
54	59	82	90	50	127	126
57	28	58	63	59	142	120
60	37	42	53	87	142	116
63	14	18	31	99	126	95
66	8	10	13	99	71	53
69	8	4	8	101	38	39
72	2	2	2	89	24	26
75	2	1	1	69	7	18
78	1	-	1	56	3	8
81	-	-	-	43	1	4
84	-	-	-	31	1	3
87	-	-	-	25	1	3
90	-	-	-	20	1	1
93	-	-	-	15	-	1
96	-	-	-	12	-	1
99	-	-	-	7	-	-
102	-	-	-	4	-	-
105	-	-	-	2	-	-
108	-	-	-	5	-	-
111	-	-	-	3	-	-
114	-	-	-	1	-	-
117	-	-	-	-	-	-
120	-	-	-	-	-	-
123	-	-	-	1	-	-
Total ‰	1000	1000	1000	998	1001	1003
Serial Numbers	-	-	-	-	-	-
Number of Samples	-	-	-	3	4	15
Number of Fish Measured	3616	27160	3036	2285	1342	2558
Mean Length (cm)	45.52	47.56	47.40	68.69	57.35	56.71
Mean Weight (kg)	-	-	-	3.37	-	-
Total Weight Landed (tons)	133	4966	146	-	-	-
Estimated Number Landed	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	110	110	110	# 6/0	3 1/2-4 ¹	3 1/2-4 ¹
Range of Depths (fm)	108-168	86-184	114-168	40-60	6-10	6-10

¹ inches, cotton

TABLE 9
(cont'd)

LENGTH FREQUENCIES - COD - 2J - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Jigger		Gillnet	
	(Commercial)			
CATCHES/LANDINGS	Landings			
MONTH	August	June	July	August
COUNTRY	Canada (Newfoundland)			
TONNAGE	Small Boats			
36	7	-	-	-
39	14	-	-	2
42	37	-	-	2
45	78	-	-	2
48	120	-	2	2
51	120	5	10	2
54	124	27	38	4
57	120	65	78	4
60	92	102	138	14
63	101	148	182	27
66	54	152	188	35
69	30	154	134	61
72	33	135	89	78
75	10	79	46	84
78	12	43	30	100
81	16	37	16	122
84	5	14	12	76
87	7	12	11	124
90	9	11	8	84
93	-	6	6	61
96	5	5	7	35
99	2	3	2	22
102	4	-	2	22
105	-	1	1	12
108	-	-	-	8
111	-	1	-	4
114	-	-	-	6
117	-	-	-	2
120	-	-	-	2
123	-	-	-	2
126	-	-	-	-
129	-	-	-	-
132	-	-	-	-
135	-	-	-	2
Total ‰	1000	1000	1000	1001
Serial Numbers	-	-	-	-
Number of Samples	4	9	21	11
Number of Fish Measured	574	1222	2413	510
Mean Length (cm)	58.08	69.28	67.42	82.90
Mean Weight (kg)	-	-	-	-
Total Weight Landed (tons)	-	-	-	-
Estimated Number Landed	-	-	-	-
Mesh(mm) or Hook(no.) Size	# 5	6-7 ¹	6-7 ¹	6-7 ¹
Range of Depths (fm)	12-15	0-8	0-9	25-70

¹ inches, nylon

TABLE 10

LENGTH FREQUENCIES - COD - 3K - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)						
	Landings						
CATCHES/LANDINGS	January	February	May	July	September	October	December
MONTH	United Kingdom						
COUNTRY	901-1800						
TONNAGE							
30	-	-	-	-	4	-	-
33	-	-	-	-	4	-	2
36	-	-	-	-	25	-	4
39	-	-	-	-	50	15	34
42	-	33	5	6	101	73	78
45	-	61	33	24	94	184	106
48	-	172	99	122	101	140	125
51	-	167	230	195	151	169	123
54	-	163	181	152	86	131	93
57	-	111	115	208	104	111	101
60	-	92	64	105	140	67	89
63	22	48	68	73	65	69	65
66	22	55	26	52	50	21	55
69	99	37	43	10	22	11	29
72	165	31	18	15	4	5	17
75	154	7	35	7	-	5	30
78	154	9	3	11	-	-	13
81	99	2	13	4	-	-	8
84	77	5	13	5	-	-	13
87	44	2	6	2	-	-	5
90	77	-	22	2	-	-	5
93	22	4	13	1	-	-	2
96	22	-	-	2	-	-	3
99	33	-	6	2	-	-	2
102	-	-	3	-	-	-	-
105	11	-	-	-	-	-	-
108	-	-	3	-	-	-	-
Total ‰	1001	999	999	998	1001	1001	1002
Serial Numbers	-	-	-	-	-	-	-
Number of Samples	1	1	1	1	1	1	1
Number of Fish Measured	91	241	208	237	556	204	1031
Mean Length (cm)	-	-	-	-	-	-	-
Mean Weight (kg)	-	-	-	-	-	-	-
Total Weight Landed (tons)	568.4	869.2	649.5	2110.7	401.1	1112.9	528.2
Estimated Number Landed	135780	570596	350756	1435950	313585	884615	345142
Mesh(mm) or Hook(no.) Size	-	-	-	-	-	-	-
Range of Depths (fm)	-	-	-	-	-	-	-

TABLE 10
(cont'd)

LENGTH FREQUENCIES - COD - 3K - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Line Trawl	Long Line	Hand Line	Trap	Gillnet		
	(Commercial)						
CATCHES/LANDINGS	Landings						
MONTH	July	June	July	June	July	September	
COUNTRY	Canada (Newfoundland)						
TONNAGE	Small Boats						
30	-	-	-	-	2	1	-
33	1	1	1	4	28	13	-
36	5	4	2	11	81	66	-
39	17	12	10	30	134	124	-
42	36	16	14	53	168	148	-
45	42	33	22	84	152	152	-
48	70	46	46	118	115	125	-
51	73	95	70	152	105	102	-
54	95	99	94	140	81	81	-
57	100	118	123	112	44	67	-
60	124	127	130	111	48	43	10
63	124	98	105	69	21	33	22
66	91	101	90	56	13	17	45
69	75	74	70	33	6	12	87
72	58	45	65	14	2	9	115
75	26	34	36	8	-	4	137
78	23	29	30	4	-	2	132
81	10	15	24	1	-	1	97
84	10	14	15	1	-	-	107
87	5	12	10	-	-	-	85
90	5	7	11	-	-	-	50
93	5	5	10	-	-	-	35
96	2	3	6	-	-	-	27
99	1	4	5	-	-	-	12
102	-	2	2	-	-	-	10
105	1	2	3	-	-	-	17
108	-	1	2	-	-	-	2
111	-	2	1	-	-	-	-
114	1	1	1	-	-	-	2
117	-	-	1	-	-	-	-
120	-	-	-	-	-	-	2
123	-	-	-	-	-	-	-
126	-	-	-	-	-	-	2
Total ‰	1000	1000	999	1001	1000	1000	996
Serial Numbers	-	-	-	-	-	-	-
Number of Samples	13	7	7	13	3	20	6
Number of Fish Measured	1283	2339	2526	2125	1362	5185	401
Mean Length (cm)	61.05	62.62	64.05	55.07	47.40	48.92	80.64
Mean Weight (kg)	2.13	2.50	2.67	1.62	1.02	1.15	5.04
Total Weight Landed (tons)	-	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	# 6/0	# 6/0	# 6/0	3020,3021	3 1/2-4 ¹	3 1/2-4 ¹	6-7 ²
Range of Depths (fm)	19-45	144-180	140-175	4-15	10-11	9-20	50-100

¹ inches, cotton² inches, nylon

TABLE 11 LENGTH FREQUENCIES - COD - 3L - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)						
	Catches		Landings				
MONTH	June ¹	July ²	April	April	May	June ³	July
COUNTRY	Poland		United Kingdom			Canada (N)	UK
TONNAGE	2600		901-1800	501-900		901-1800	
18	2	-	-	-	-	-	-
21	3	-	-	-	-	-	-
24	3	-	-	-	-	-	-
27	10	1	-	-	-	-	-
30	15	1	-	-	-	-	-
33	28	20	-	-	-	-	-
36	33	59	2	-	-	-	-
39	31	59	25	-	6	-	-
42	39	78	59	3	15	-	-
45	41	37	91	27	53	-	6
48	35	53	104	68	91	48	126
51	62	34	124	73	106	77	132
54	71	64	116	99	129	147	234
57	77	59	93	63	104	154	138
60	104	90	63	72	64	119	120
63	108	91	44	36	52	119	84
66	111	61	42	22	57	99	108
69	59	31	37	51	54	83	30
72	46	34	33	47	20	38	24
75	35	60	33	45	56	26	-
78	24	26	23	45	19	13	-
81	14	25	21	75	33	3	-
84	12	30	17	75	36	10	-
87	9	18	12	22	27	13	-
90	8	17	11	74	20	3	-
93	6	12	8	22	9	-	-
96	7	5	9	22	19	19	-
99	1	14	12	-	8	13	-
102	1	1	2	14	9	10	-
105	3	4	6	-	5	-	-
108	-	8	5	4	-	3	-
111	1	4	3	8	8	3	-
114	1	3	4	13	-	-	-
117	-	-	0	9	1	-	-
120	-	1	1	12	-	-	-
Total ‰	1000	1000	1000	1001	1001	1000	1002
Serial Numbers	-	-	-	-	-	-	-
Number of Samples	1	1	3	1	1	1	1
Number of Fish Measured	1573	766	926	248	259	312	167
Mean Length (cm)	59.6	61.3	-	-	-	63.817	-
Mean Weight (kg)	-	-	-	-	-	2.443	-
Total Weight Landed (tons)	-	-	2967.1	777.5	3324.1	1050.2	3106.4
Estimated Number Landed	-	-	1428525	225427	47810	429881	2042419
Mesh(mm) or Hook(no.) Size	114	114	-	-	-	4 1/2 ⁴	-
Range of Depths (fm)	98-104	66-71	-	-	-	45-70	-

¹ June 26² July 9³ Landings after discards⁴ inches

TABLE 11
(cont'd)

LENGTH FREQUENCIES - COD - 3L - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl					
	(Commercial)					
	Landings					
	August	September ¹	October	November ¹	November ¹	December ¹
MONTH	August	September ¹	October	November ¹	November ¹	December ¹
CATCHES/LANDINGS						
COUNTRY	UK	Canada (N)	UK	Canada (Newfoundland)		
TONNAGE	901-1800	501-900	901-1800	501-900	151-500	
33	-	-	-	-	-	2
36	-	-	-	-	-	27
39	5	-	6	18	5	97
42	58	10	21	76	38	155
45	174	17	64	133	123	137
48	150	51	133	144	108	113
51	103	95	95	119	123	101
54	111	115	150	121	104	72
57	72	137	88	119	104	63
60	91	127	109	114	90	59
63	67	90	70	57	66	59
66	70	86	115	30	61	43
69	44	93	42	30	75	18
72	12	39	39	18	38	18
75	2	37	20	14	19	14
78	6	10	11	2	9	9
81	7	17	6	2	9	5
84	2	17	2	-	-	-
87	2	10	6	2	-	5
90	4	10	6	-	5	2
93	2	7	5	-	5	-
96	4	-	2	-	9	-
99	4	2	0	-	9	-
102	2	7	-	-	-	-
105	2	7	2	-	-	2
108	-	-	-	-	-	-
111	6	2	2	-	-	-
114	2	2	-	-	-	-
117	-	2	-	-	-	-
120	-	2	2	-	-	-
123	-	5	-	-	-	-
Total ‰	1002	997	996	999	1000	1001
Serial Numbers	-	-	-	-	-	-
Number of Samples	1	2	1	2	1	2
Number of Fish Measured	243	409	354	437	212	444
Mean Length (cm)	-	63.963	-	54.574	58.396	52.074
Mean Weight (kg)	-	2.027	-	1.565	2.121	1.287
Total Weight Landed (tons)	1921.5	508.8	1090.2	728.9	358.3	310.8
Estimated Number Landed	1134354	251011	565735	465751	168930	241492
Mesh(mm) or Hook(no.) Size	-	large	-	large	4 1/2 ²	4 1/2 ²
Range of Depths (fm)	-	76-125	-	120-220	115-140	112-125

¹ Landings after discards
² inches

TABLE 11
(cont'd)

LENGTH FREQUENCIES - COD - 3L - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl		Line Trawl		Long Line			Hand Line	
	(Research)		(Commercial)						
CATCHES/LANDINGS	Catches		Landings After Discards						
MONTH	January	September	June	July	September	June	July	September	
COUNTRY	USSR		Canada (Newfoundland)						
TONNAGE	1800		NK						
27	4	-	-	-	-	-	-	-	
30	14	-	-	-	-	-	-	-	
33	34	3	-	2	-	-	4	11	
36	43	29	-	5	13	21	34	60	
39	53	57	-	10	14	46	62	114	
42	65	87	10	23	37	64	79	121	
45	135	87	20	38	50	72	76	119	
48	119	109	40	63	43	70	90	94	
51	122	85	60	85	58	118	99	71	
54	147	106	110	113	77	155	110	87	
57	74	85	30	119	85	110	127	78	
60	65	77	90	113	110	113	97	57	
63	35	73	120	107	110	91	81	53	
66	26	63	90	91	121	59	51	45	
69	15	42	90	57	96	24	32	25	
72	11	27	50	44	55	32	20	18	
75	10	22	70	35	43	8	12	17	
78	6	15	60	24	34	11	11	10	
81	3	12	40	14	24	3	6	9	
84	5	8	20	9	10	-	2	6	
87	3	4	30	12	7	-	1	1	
90	4	1	20	5	3	3	2	-	
93	2	3	20	5	1	-	1	2	
96	2	2	10	4	3	-	-	1	
99	1	1	-	5	1	-	-	-	
102	1	-	10	3	1	-	-	-	
105	1	1	-	5	1	-	1	-	
108	-	1	-	3	-	-	-	-	
111	-	-	-	2	-	-	-	-	
114	-	-	-	2	-	-	-	-	
117	-	-	-	1	1	-	-	-	
120	-	-	10	-	-	-	-	-	
123	-	-	-	1	-	-	-	-	
Total ‰	1000	1000	1000	1000	998	1000	998	999	
Serial Numbers	-	-	-	-	-	-	-	-	
Number of Samples	-	10	1	14	6	2	17	10	
Number of Fish Measured	15795	1512	100	2204	761	373	3000	1433	
Mean Length (cm)	52.06	55.922	67.960	62.295	62.437	55.804	55.055	52.142	
Mean Weight (kg)	-	1.705	3.305	2.429	2.319	1.709	1.732	1.393	
Total Weight Landed (tons)	102	-	-	-	-	-	-	-	
Estimated Number Landed	-	-	-	-	-	-	-	-	
Mesh(mm) or Hook(no.) Size	110	# 15	6/0	6/0	6/0	#3020&3021	#3020&3021	#3020&3021	
Range of Depths (fm)	168-191	10-60	130-140	120-160	120-150	4-10	5-18	20-40	

TABLE 11 LENGTH FREQUENCIES - COD - 3L - 1967
(cont'd)

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Cod Trap			Gillnet	
	(Commercial)				
CATCHES/LANDINGS	Landings After Discards				
MONTH	June	July	May	June	July
COUNTRY	Canada (Newfoundland)				
TONNAGE	NK				
30	5	9	-	-	-
33	30	56	-	1	-
36	49	133	-	-	-
39	82	136	-	1	-
42	95	119	4	1	-
45	105	103	-	3	-
48	108	90	-	2	10
51	72	77	-	1	-
54	94	67	-	2	-
57	97	60	4	3	5
60	78	51	-	13	10
63	62	40	36	21	26
66	45	24	64	56	83
69	37	15	100	81	120
72	21	9	96	87	141
75	8	5	128	78	83
78	5	3	89	84	94
81	1	1	107	89	89
84	4	1	85	66	73
87	1	-	57	64	73
90	-	-	53	69	52
93	1	-	28	48	36
96	-	-	28	55	31
99	-	-	32	41	42
102	-	-	18	31	-
105	1	-	21	28	16
108	-	-	11	27	-
111	-	-	21	21	5
114	-	-	-	9	-
117	-	-	14	6	5
120	-	-	-	8	5
123	-	-	4	2	-
126	-	-	-	1	-
129	-	-	-	1	-
132	-	-	-	1	-
Total ‰	1001	999	1000	1001	999
Serial Numbers	-	-	-	-	-
Number of Samples	7	38	3	17	2
Number of Fish Measured	1652	9622	281	1814	192
Mean Length (cm)	52.477	47.804	81.978	84.660	79.812
Mean Weight (kg)	1.558	1.148	5.615	6.096	4.910
Total Weight Landed (tons)	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	3 1/2-10 ¹	3 1/2-10 ¹	6-7 ¹	6 1/2-7 ¹	6 1/2-7 ¹
Range of Depths (fm)	7-12	7-17	18-77	18-77	12-70

¹ inches

TABLE 13

LENGTH FREQUENCIES - COD - 3N - 1967

(FREQUENCIES IN %/oo - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)					
	Landings					
CATCHES/LANDINGS	January	January ¹	February ¹	May	July	September ¹
MONTH	United Kingdom	Canada (Newfoundland)	United Kingdom		Canada (N)	
TONNAGE	501-900		901-1800		501-900	
36	-	-	-	-	6	-
39	-	-	-	5	21	-
42	10	-	-	15	53	10
45	75	20	24	89	106	30
48	80	44	154	136	130	63
51	124	103	211	141	171	99
54	131	118	154	129	168	73
57	90	64	98	166	106	79
60	103	113	49	64	107	132
63	86	39	114	53	44	89
66	74	20	41	22	43	92
69	33	20	33	37	14	63
72	32	20	41	28	10	40
75	29	39	16	32	5	50
78	17	54	-	19	4	53
81	10	64	8	22	3	50
84	39	39	8	6	1	20
87	19	44	8	11	-	17
90	16	49	16	4	2	7
93	1	39	-	6	1	13
96	5	25	16	2	-	3
99	1	30	-	4	-	7
102	18	10	8	6	1	7
105	1	15	-	-	1	3
108	5	20	-	2	2	-
111	1	5	-	-	1	3
114	-	-	-	-	1	-
117	-	-	-	-	-	-
120	-	5	-	-	1	-
Total %/oo	1000	999	999	999	1002	1003
Serial Numbers	-	-	-	-	-	-
Number of Samples	1	2	1	1	1	1
Number of Fish Measured	266	203	123	264	456	303
Mean Length (cm)	-	71.433	59.268	-	-	65.178
Mean Weight (kg)	-	3.622	2.214	-	-	2.727
Total Weight Landed (tons)	63.2	97.5	147.6	540.2	938.4	271.6
Estimated Number Landed	29598	26918	66667	305878	647830	99597
Mesh(mm) or Hook(no.) Size	-	large	4 1/2	-	-	large
Range of Depths (fm)	-	40-120	100-140	-	-	95-120

¹ Landings after discards

TABLE 13
(cont'd)

LENGTH FREQUENCIES - COD - 3N - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Research)		
	Catches		NK
CATCHES/LANDINGS	May	September	March
MONTH			
COUNTRY	USSR		France
TONNAGE	1800		850-1500
24	-	-	8
27	-	-	8
30	6	-	40
33	25	8	99
36	83	8	109
39	106	49	55
42	92	32	40
45	68	63	25
48	59	90	25
51	85	131	23
54	118	152	53
57	85	93	61
60	86	143	101
63	67	64	79
66	44	44	43
69	26	36	35
72	14	12	22
75	16	9	23
78	8	9	31
81	3	9	28
84	5	2	45
87	3	2	17
90	1	12	23
93	-	1	3
96	-	5	-
99	-	2	2
102	-	2	-
105	-	5	2
108	-	5	-
111	-	2	-
114	-	2	-
117	-	3	-
120	-	3	-
123	-	2	-
Total ‰	1000	1000	1000
Serial Numbers	-	-	-
Number of Samples	-	-	3
Number of Fish Measured	1760	1319	604
Mean Length (cm)	52.43	57.89	-
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	124	5117	-
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	110	110	110-140
Range of Depths (fm)	35-57	114-227	55-170

GEAR	Otter Trawl		
	(Research)		
CATCHES/LANDINGS	Catches	NK	
MONTH	May	March	April
COUNTRY	USSR	France	
TONNAGE	1800	850-1500	
18	1	-	2
21	1	21	-
24	2	12	-
27	3	-	2
30	10	6	8
33	55	50	63
36	139	146	163
39	150	119	293
42	111	46	87
45	91	27	55
48	63	40	44
51	56	58	44
54	73	50	59
57	61	69	51
60	58	79	34
63	41	50	21
66	28	50	23
69	16	50	17
72	14	21	6
75	11	17	6
78	3	21	9
81	3	12	4
84	3	15	2
87	2	12	-
90	2	10	-
93	1	6	2
96	1	4	2
99	-	4	2
102	-	4	2
105	-	-	-
108	1	2	-
111	-	-	-
114	-	2	-
Total ‰	1000	1003	1001
Serial Numbers	-	-	-
Number of Samples	-	6	3
Number of Fish Measured	4595	521	526
Mean Length (cm)	46.57	-	-
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	16113	-	-
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	110	110-140	110-140
Range of Depths (fm)	43-94	55-170	55-170

TABLE 15

LENGTH FREQUENCIES - COD - 3Pn - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Research)	Long Line (Commercial)
CATCHES/LANDINGS	NK	Landings
MONTH	April	March
COUNTRY	France	Canada (Newfoundland)
TONNAGE	850-1500	Small Boats
12	3	-
15	36	-
18	51	-
21	24	-
24	48	-
27	42	-
30	39	3
33	12	4
36	30	7
39	30	12
42	36	23
45	71	24
48	51	32
51	51	51
54	54	88
57	71	103
60	91	119
63	66	115
66	60	103
69	48	82
72	12	63
75	15	45
78	9	36
81	12	27
84	12	17
87	6	12
90	3	12
93	6	6
96	3	2
99	3	3
102	-	2
105	3	3
108	3	5
111	-	-
114	-	-
117	-	-
120	-	-
123	-	-
126	-	-
129	-	-
132	-	1
Total ‰	1001	1000
Serial Numbers	-	-
Number of Samples	3	26
Number of Fish Measured	335	4757
Mean Length (cm)	-	64.28
Mean Weight (kg)	-	2.85
Total Weight Landed (tons)	-	-
Estimated Number Landed	-	-
Mesh(mm) or Hook(no.) Size	110-140	# 6/0
Range of Depths (fm)	55-170	60-110

TABLE 16

LENGTH FREQUENCIES - COD - 3Ps - 1967

(FREQUENCIES IN % - 3 CM GROUPS)

GEAR	Otter Trawl					
	(Commercial)					(Research)
CATCHES/LANDINGS	Landings					NK
MONTH	February ¹	March ¹	March ¹	July	November ¹	April
COUNTRY	Canada (Newfoundland)			Canada (M)	Canada (N)	France
TONNAGE	151-500		501-900	151-500	501-900	850-1500
12	-	-	-	-	-	4
15	-	-	-	-	-	9
18	-	-	-	-	-	25
21	-	-	-	-	-	22
24	-	-	-	-	-	29
27	-	-	-	-	-	45
30	-	-	-	-	-	58
33	-	-	-	-	4	62
36	5	6	-	-	-	67
39	25	-	-	60	60	86
42	60	13	-	123	103	105
45	80	19	41	145	134	94
48	124	38	99	123	147	82
51	154	32	160	88	159	68
54	184	64	107	83	78	40
57	139	58	115	129	82	44
60	85	64	128	89	60	43
63	55	103	115	68	30	30
66	45	103	78	37	34	14
69	20	109	29	14	17	13
72	-	109	33	14	30	11
75	15	51	49	6	4	11
78	5	71	12	2	4	6
81	-	26	21	3	9	4
84	5	32	4	-	-	3
87	-	26	-	1	22	3
90	-	32	4	1	-	3
93	-	26	-	1	-	4
96	-	-	-	4	-	2
99	-	6	-	3	4	4
102	-	-	-	2	-	2
105	-	6	-	-	4	3
108	-	6	-	1	4	1
111	-	-	4	1	-	0
114	-	-	-	-	-	1
117	-	-	-	1	9	2
120	-	-	-	-	-	-
123	-	-	-	-	-	-
126	-	-	-	-	-	-
129	-	-	-	-	-	-
132	-	-	-	-	-	-
135	-	-	-	-	-	-
138	-	-	-	-	-	-
141	-	-	-	-	-	-
144	-	-	-	1	-	-
Total %/oo	1001	1000	999	1000	998	1000
Serial Numbers	-	-	-	119	-	-
Number of Samples	1	1	1	1	1	17
Number of Fish Measured	201	156	243	362	232	2505
Mean Length (cm)	54.731	68.923	60.061	53.8	54.625	-
Mean Weight (kg)	1.589	2.793	2.409	1.53	1.512	-
Total Weight Landed (tons)	890.3	724.2	253.1	260	17.6	-
Estimated Number Landed	560289	259291	105064	169935	11640	-
Mesh(mm) or Hook(no.) Size	large	large	large	4.6 ²	large	110-140
Range of Depths (fm)	-	110-165	110	24	90-100	28-170

¹ Landings after discards² inches

TABLE 16
(cont'd)

LENGTH FREQUENCIES - COD - 3Pa - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Line Trawl		Cod Trap		Gillnet			
	(Commercial)							
CATCHES/LANDINGS	Landings after Discard							
MONTH	September	November	June	July	April	May	June	July
COUNTRY	Canada (Newfoundland)							
TONNAGE	NK							
27	-	-	1	3	-	-	-	-
30	-	-	10	32	-	-	-	-
33	11	-	58	108	-	2	-	-
36	53	-	99	155	-	2	-	-
39	78	-	147	145	-	4	1	-
42	90	19	165	133	7	8	-	1
45	91	58	140	117	7	4	1	5
48	87	58	111	93	7	7	3	5
51	86	77	68	72	-	7	4	7
54	93	58	59	51	14	8	9	16
57	84	269	52	34	36	18	31	30
60	78	115	32	27	80	58	88	110
63	68	96	22	15	109	113	146	174
66	51	38	16	7	87	164	195	166
69	41	19	11	3	101	168	195	179
72	31	96	2	2	159	117	150	129
75	19	77	3	1	123	83	80	84
78	12	-	2	1	72	75	46	46
81	9	-	2	1	72	46	25	17
84	4	-	1	-	51	31	11	15
87	4	-	-	-	14	25	4	4
90	2	-	-	-	29	19	2	1
93	1	-	-	-	22	19	3	1
96	3	-	1	-	7	3	3	1
99	2	-	-	-	-	11	1	1
102	-	-	-	-	-	4	1	1
105	1	-	-	-	-	1	1	2
108	1	19	-	-	-	1	-	-
111	-	-	-	-	-	1	-	1
114	-	-	-	-	-	1	-	1
117	-	-	-	-	-	-	-	1
120	-	-	-	-	-	1	-	-
123	-	-	-	-	-	-	-	-
126	-	-	-	-	-	-	-	-
129	-	-	-	-	-	-	-	-
132	-	-	-	-	-	-	1	-
Total ‰	1000	999	1002	1000	997	1001	1001	998
Serial Numbers	-	-	-	-	-	-	-	-
Number of Samples	11	1	3	8	1	10	8	2
Number of Fish Measured	4244	52	1870	4726	138	1791	1914	801
Mean Length (cm)	54.754	61.173	46.563	44.151	72.282	71.705	69.225	68.707
Mean Weight (kg)	1.637	2.269	1.065	.918	3.512	3.413	3.161	1.818
Total Weight Landed (tons)	-	-	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	15,16,6-0	15,16,6-0	4 ¹	4 ¹	6 1/2-7 ¹	6-7 ¹	6-7 ¹	6-7 ¹
Range of Depths (fm)	10-30	30-35	17	12-14	60-120	30-100	20-50	20-50

1 inches

TABLE 17

LENGTH FREQUENCIES - COD - 4R - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl				(Research)	Trap	Gillnet	
	(Commercial)					NK	(Commercial)	
	Landings				April		Landings	
	January	July	August	September ¹		July	June	September
MONTH	UK	Canada (M)	Canada (N)	France	Canada (Newfoundland)			
COUNTRY	901-1800	151-500	501-900	850-1500	Small Boats			
TONNAGE								
15	-	-	-	-	3	-	-	-
18	-	-	-	-	11	-	-	-
21	-	-	-	-	-	-	-	-
24	-	-	-	-	11	-	-	-
27	-	-	-	-	17	-	-	-
30	-	-	-	-	36	2	-	-
33	-	-	-	-	28	15	-	-
36	-	-	-	-	28	42	-	2
39	-	20	3	7	69	126	-	2
42	14	65	49	35	83	150	2	3
45	30	102	102	140	64	148	1	6
48	79	159	131	155	61	131	3	11
51	142	111	152	112	83	98	3	10
54	306	136	112	125	92	82	4	9
57	98	139	93	117	95	86	4	13
60	105	74	89	77	64	42	18	28
63	69	37	37	75	50	42	33	60
66	72	20	67	37	70	24	69	90
69	20	34	45	40	33	8	112	115
72	39	28	37	30	28	5	132	107
75	11	14	26	7	22	-	116	98
78	0	23	11	17	14	-	120	85
81	3	3	16	12	8	-	95	60
84	-	3	17	2	3	-	70	52
87	0	-	8	5	25	-	56	41
90	3	9	2	-	11	-	48	41
93	3	6	2	-	6	-	36	45
96	-	3	1	-	3	-	27	33
99	-	9	-	-	3	-	20	25
102	3	-	-	-	-	-	10	22
105	0	6	-	2	-	-	6	12
108	3	-	-	2	-	-	6	13
111	-	-	-	-	-	-	3	7
114	-	-	-	-	-	-	2	5
117	-	-	-	-	-	-	1	2
120	-	-	-	-	-	-	1	1
123	-	-	-	-	-	-	-	-
126	-	-	-	-	-	-	-	1
Total ‰	1000	1001	1000	997	1001	1001	998	999
Serial Numbers	-	120	121	-	-	-	-	-
Number of Samples	1	1	1	1	3	4	35	41
Number of Fish Measured	253	352	316	401	360	595	6611	4125
Mean Length (cm)	-	56.6	57.7	56.436	-	49.17	78.81	77.95
Mean Weight (kg)	-	1.86	1.85	1.797	-	-	4.96	4.70
Total Weight Landed (tons)	2196.3	584	478	48.8	-	-	-	-
Estimated Number Landed	1328019	313978	258378	27156	-	-	-	-
Mesh(mm) or Hook(no.) Size	-	4.5 ²	4.7 ²	large	110-140	3 1/2-4 ³	6-7 ⁴	6-7 ⁴
Range of Depths (fm)	-	80-105	20-30	25-35	120-170	6-10	35-85	40-130

¹ Landings after discards
² inches

³ inches, cotton
⁴ inches, nylon

TABLE 18 LENGTH FREQUENCIES - COD - 4S - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl		
	(Commercial)		NK
CATCHES/LANDINGS	Landings		NK
MONTH	January	September	June
COUNTRY	United Kingdom	Canada (Maritimes)	Canada (Quebec)
TONNAGE	901-1800	26-50	NK
36	-	7	-
39	5	20	-
42	30	74	-
45	83	182	15
48	131	162	74
51	174	95	96
54	156	74	118
57	124	47	169
60	124	122	199
63	61	101	184
66	24	14	74
69	11	34	15
72	14	20	7
75	15	20	7
78	12	7	15
81	7	-	15
84	6	7	7
87	6	-	-
90	5	7	-
93	4	7	7
96	2	-	-
99	2	-	-
102	-	-	-
105	-	-	-
108	-	-	-
111	2	-	-
114	1	-	-
117	-	-	-
120	1	-	-
Total ‰	1000	1000	1002
Serial Numbers	-	118	-
Number of Samples	1	1	1
Number of Fish Measured	819	148	136
Mean Length (cm)	-	54.9	60.17
Mean Weight (kg)	-	1.62	-
Total Weight Landed (tons)	536.4	70	-
Estimated Number Landed	333238	43210	-
Mesh(mm) or Hook(no.) Size	-	2 1/2 ¹	4 1/2 ¹
Range of Depths (fm)	-	138-150	100-115

¹ inches

TABLE 19

LENGTH FREQUENCIES - COD - 4T - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)					
	Landings					
CATCHES/LANDINGS	May	June	August	September	October	November
MONTH						
COUNTRY	Canada (Maritimes)					
TONNAGE	26-50 and 51-150					
36	6	-	2	32	55	17
39	64	25	42	145	172	125
42	149	87	162	144	152	136
45	194	116	248	174	131	106
48	149	141	141	141	137	144
51	101	134	113	101	89	123
54	84	120	101	81	74	90
57	62	82	79	67	73	90
60	34	91	51	41	53	61
63	37	82	23	25	25	36
66	37	55	15	14	15	22
69	11	20	5	8	8	15
72	7	16	4	7	6	6
75	9	9	2	3	2	4
78	10	5	1	2	2	4
81	11	4	1	1	1	3
84	8	3	1	2	2	3
87	4	5	1	2	-	-
90	3	1	1	3	1	2
93	4	2	1	1	-	1
96	5	1	-	2	-	1
99	5	-	1	1	-	1
102	2	1	1	1	-	1
105	2	-	1	1	-	-
108	1	-	1	-	-	-
111	1	-	-	-	1	1
114	-	-	-	1	-	-
117	-	-	-	-	-	-
120	-	-	1	-	-	-
Total ‰	1000	1000	999	1000	999	999
Serial Numbers	84-86	87-91	92-100	101-108	109-115	116
Number of Samples	3	4	9	8	7	1
Number of Fish Measured	441	802	2430	1643	1784	273
Mean Length (cm)	52.8	54.9	50.5	49.6	48.8	51.4
Mean Weight (kg)	1.46	1.61	1.28	1.30	1.20	1.55
Total Weight Landed (tons)	2118	3015	920	876	946	916
Estimated Number Landed	1450685	1872671	718750	673846	788333	590968
Mesh(mm) or Hook(no.) Size	4.5-4.7 ¹	4.5 ¹	4.4-4.6 ¹	4.4-4.5 ¹	4.4-4.5 ¹	5 ¹
Range of Depths (fm)	50-160	28-115	10-45	10-45	10-60	45-60

¹ inches

TABLE 19 LENGTH FREQUENCIES - COD - 4T - 1967
(cont'd)

(FREQUENCIES IN % - 3 CM GROUPS)

GEAR	Otter Trawl				Long Line	Gillnet	
	NK					(Commercial)	NK
CATCHES/LANDINGS	NK					Landings	NK
MONTH	June	August	September	September	September	October	July
COUNTRY	Canada (Quebec)					Canada (M)	Canada(O)
TONNAGE	NK					0-25	NK
30	-	-	-	-	5	-	-
33	-	-	-	-	-	-	-
36	-	-	11	-	10	-	-
39	10	3	68	21	20	-	6
42	32	69	127	85	20	-	6
45	48	106	136	132	15	-	16
48	80	179	160	122	15	-	25
51	151	169	149	132	10	23	19
54	232	187	160	185	26	99	38
57	141	124	66	106	66	191	44
60	109	79	59	90	128	183	22
63	68	40	31	48	138	175	6
66	48	26	26	26	107	114	22
69	22	8	4	16	92	76	9
72	26	3	-	-	82	46	22
75	10	3	-	21	87	38	50
78	10	5	-	-	46	23	44
81	-	-	-	5	41	8	47
84	10	-	-	5	26	8	66
87	3	-	-	5	36	-	60
90	-	-	-	-	5	-	117
93	-	-	-	-	5	8	114
96	-	-	-	-	-	-	79
99	-	-	-	-	10	-	54
102	-	-	-	-	10	-	41
105	-	-	-	-	-	8	28
108	-	-	-	-	-	-	25
111	-	-	-	-	-	-	6
114	-	-	-	-	-	-	9
117	-	-	-	-	-	-	-
120	-	-	-	-	-	-	9
123	-	-	-	-	-	-	3
126	-	-	-	-	-	-	-
129	-	-	-	-	-	-	6
132	-	-	-	-	-	-	-
135	-	-	-	-	-	-	-
138	-	-	-	-	-	-	-
141	-	-	-	-	-	-	-
144	-	-	-	-	-	-	3
Total %	1000	1001	997	999	1000	1000	996
Serial Numbers	-	-	-	-	-	117	-
Number of Samples	1	1	1	1	1	1	1
Number of Fish Measured	311	379	455	189	196	131	317
Mean Length (cm)	56.97	53.46	50.80	54.21	67.47	64.0	84.57
Mean Weight (kg)	-	-	-	-	-	2.91	-
Total Weight Landed (tons)	4.53	15.19	16.32	.23	.36	226	1.41
Estimated Number Landed	-	-	-	-	-	77663	-
Mesh(mm) or Hook(no.) Size	4 1/2 ¹	4 1/2 ¹	4 1/2 ¹	4 1/2 ¹	-	-	6-8 ¹
Range of Depths (fm)	60-90	70-100	70-100	140	22-30	12	17

¹ inches

TABLE 20 LENGTH FREQUENCIES - COD - 4Vn - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl			Long Line			
	(Commercial)						
CATCHES/LANDINGS	Landings						
MONTH	March ¹	April	July	August	September	October	December
COUNTRY	Canada (N)			Canada (Maritimes)			
TONNAGE	151-500			26-50 and 0-25			
33	6	-	-	-	3	10	-
36	28	36	-	-	9	10	-
39	96	120	10	7	18	21	-
42	113	89	6	14	78	27	32
45	141	91	16	34	97	72	73
48	119	118	54	55	115	100	96
51	130	128	105	96	127	154	134
54	147	129	105	124	113	182	172
57	102	86	165	127	97	124	128
60	56	78	134	127	90	113	92
63	45	39	105	107	70	38	83
66	11	32	67	100	67	51	67
69	6	18	57	58	49	38	39
72	-	15	29	53	22	15	21
75	-	11	44	29	10	4	14
78	-	3	28	19	11	5	12
81	-	3	13	10	4	12	12
84	-	1	22	2	7	8	7
87	-	-	22	5	3	3	3
90	-	1	4	10	3	3	4
93	-	1	3	8	1	3	-
96	-	-	6	8	1	1	4
99	-	-	3	5	1	-	1
102	-	-	-	-	-	-	-
105	-	-	-	-	1	4	-
108	-	-	-	2	-	-	3
111	-	-	-	-	-	-	3
114	-	-	2	-	-	-	-
117	-	-	-	-	-	-	-
120	-	-	-	-	1	1	-
123	-	-	-	-	-	-	-
126	-	-	-	-	-	-	-
129	-	-	-	-	-	-	-
132	-	-	-	-	1	1	-
Total ‰	1000	999	1000	1000	999	1000	1000
Serial Numbers	-	122-123	126	127	128-129	130	131
Number of Samples	1	2	1	1	2	1	1
Number of Fish Measured	177	630	330	299	698	313	343
Mean Length (cm)	50.474	52.1	62.5	61.8	56.3	56.6	58.3
Mean Weight (kg)	.987	1.42	2.29	2.20	2.04	2.09	2.16
Total Weight Landed (tons)	105.1	476	167	172	173	158	414
Estimated Number Landed	106484	335211	72926	78182	84804	75598	191667
Mesh(mm) or Hook(no.) Size	large	4.5 ²	6/0	6/0	6/0	6/0	6/0
Range of Depths (fm)	140	120-150	16-28	28-38	25-40	18-38	35-45

¹ Landings after discards² inches

TABLE 21 LENGTH FREQUENCIES - COD - 4Vn - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl					
	(Commercial)					(Research)
CATCHES/LANDINGS	Landings					NK
MONTH	February	March	March ¹	June	November	April
COUNTRY	Canada (Maritimes)		Canada (N)	Canada (Maritimes)		France
TONNAGE	151-500					850-1500
18	-	-	-	-	-	1
21	-	-	-	-	-	4
24	-	-	-	-	-	12
27	-	-	-	-	-	17
30	-	-	-	-	-	22
33	-	-	-	-	-	48
36	6	-	4	-	4	104
39	28	7	36	35	21	141
42	54	30	49	83	81	127
45	132	83	115	115	159	112
48	161	100	164	119	191	120
51	135	96	162	186	157	103
54	147	130	144	151	179	64
57	87	113	93	125	101	46
60	107	130	65	74	64	27
63	69	80	49	38	13	22
66	39	89	28	32	11	10
69	33	43	20	29	13	9
72	-	40	18	3	-	3
75	-	23	4	6	-	1
78	-	20	14	-	-	2
81	2	10	4	-	3	2
84	-	-	6	3	-	-
87	-	3	8	-	3	-
90	-	-	2	-	-	1
93	-	3	6	-	-	-
96	-	-	2	-	-	1
99	-	-	-	-	-	-
102	-	-	2	-	-	-
105	-	-	-	-	-	-
108	-	-	4	-	-	-
111	-	-	-	-	-	-
114	-	-	-	-	-	-
117	-	-	-	-	-	-
120	-	-	-	-	-	-
123	-	-	-	-	-	-
126	-	-	-	-	-	-
129	-	-	-	-	-	-
132	-	-	2	-	-	-
Total ‰	1000	1000	1001	999	1000	999
Serial Numbers	124	125	-	132	133	-
Number of Samples	1	1	2	1	1	10
Number of Fish Measured	419	301	506	312	313	2130
Mean Length (cm)	53.8	58.6	55.171	53.4	51.9	-
Mean Weight (kg)	1.57	1.92	1.826	1.39	1.38	-
Total Weight Landed (tons)	449	444	314.8	298	59	-
Estimated Number Landed	285987	231250	172398	214388	42754	-
Mesh(mm) or Hook(no.) Size	4.4 ²	4.7 ²	large	4.4 ²	4.6 ²	110-140
Range of Depths (fm)	-	135-140	90-168	30-45	25-80	55-170

¹ Landings after discards
² inches

TABLE 22 LENGTH FREQUENCIES - COD - 4W - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

BEAR	Otter Trawl	
	(Commercial)	
CATCHES/LANDINGS	Landings	
MONTH	March	December
COUNTRY	Canada (Maritimes)	
TONNAGE	151-500	
42	2	16
45	15	59
48	15	104
51	35	110
54	48	138
57	71	181
60	80	131
63	89	74
66	85	41
69	93	33
72	77	41
75	61	21
78	58	16
81	52	9
84	51	-
87	39	7
90	38	7
93	25	2
96	19	6
99	11	2
102	8	2
105	6	-
108	10	-
111	2	-
114	4	-
117	-	-
120	2	-
123	1	-
126	-	-
129	2	-
Total ‰	999	1000
Serial Numbers	134-135	197
Number of Samples	2	1
Number of Fish Measured	549	308
Mean Length (cm)	72.4	59.1
Mean Weight (kg)	4.02	2.25
Total Weight Landed (tons)	1184	725
Estimated Number Landed	294527	322222
Mesh(mm) or Hook(no.) Size	4.5 ¹	4.5 ¹
Range of Depths (fm)	50-58	20-50

¹ inches

TABLE 23

LENGTH FREQUENCIES - COD - 4X (SOUTH)¹ - 1967

(FREQUENCIES IN ‰ - 3 CM GROUPS)

GEAR	Otter Trawl (Commercial)						
	Landings						
CATCHES/LANDINGS							
MONTH	January	April	May	June	August	October	November
COUNTRY	Canada (Maritimes)						
TONNAGE	51-150	151-500					
33	-	-	-	-	-	-	1
36	-	-	-	5	3	-	4
39	24	2	29	19	12	-	8
42	59	14	46	38	37	8	7
45	75	29	60	100	86	45	34
48	70	93	87	165	111	94	69
51	85	112	100	185	98	111	130
54	65	88	75	163	128	70	149
57	91	115	111	107	110	74	180
60	95	93	93	82	95	78	134
63	93	88	64	50	72	78	107
66	71	62	77	27	56	82	33
69	64	67	61	18	52	82	27
72	54	54	34	16	36	57	29
75	15	28	20	6	35	47	24
78	25	34	42	4	20	35	11
81	22	23	29	3	13	31	6
84	22	28	14	1	7	15	8
87	25	21	14	3	6	14	6
90	7	10	13	3	6	15	8
93	15	14	8	1	5	14	7
96	7	6	9	1	4	12	5
99	2	5	7	1	5	12	3
102	7	5	3	1	1	8	3
105	-	2	3	-	1	5	3
108	2	2	-	-	1	5	1
111	2	2	1	-	1	5	1
114	-	-	-	-	-	3	1
117	-	2	-	-	-	-	1
120	-	1	-	-	-	1	-
123	-	-	-	-	-	-	1
126	-	-	-	-	-	-	-
129	-	-	-	-	-	-	-
132	-	-	-	-	-	-	-
135	-	-	-	-	-	-	-
138	2	-	-	-	-	-	-
Total ‰	999	1000	1000	999	1001	1001	1001
Serial Numbers	152	136-137	138&147	139-141	142-144	145	146
Number of Samples	1	2	2	3	3	1	1
Number of Fish Measured	290	540	557	998	1090	291	325
Mean Length (cm)	61.9	63.8	61.5	54.5	59.2	65.4	60.1
Mean Weight (kg)	3.18	2.65	2.46	1.48	2.38	3.32	2.45
Total Weight Landed (tons)	107	536	737	1679	420	557	254
Estimated Number Landed	33648	202264	299593	1134459	176471	167771	103673
Mesh(mm) or Hook(no.) Size	4.5 ²	4.5 ²	4.5 ²	4.4-4.5 ²	4.5 ²	4.4 ²	4.5 ²
Range of Depths (fm)	40	50-80	40-80	40-85	48-95	40-65	70-108

¹ South of latitude 44° 00'² inches

GEAR	Otter Trawl (Commercial)						
	Landings						
CATCHES/LANDINGS	January	February	February	March	April	May	June
MONTH	United States		Canada (Maritimes)		United States		
TONNAGE	0-458		151-500		0-458		
36	7	-	-	-	-	-	-
39	25	-	1	-	-	12	7
42	75	19	2	-	-	83	63
45	76	55	23	-	38	151	113
48	76	115	45	-	52	92	106
51	108	170	72	3	34	63	90
54	143	153	89	5	68	94	136
57	99	133	60	5	90	114	90
60	65	72	73	8	111	117	118
63	37	43	77	26	94	92	128
66	67	46	44	26	34	75	50
69	58	63	71	31	34	21	46
72	27	60	45	31	64	20	13
75	12	9	56	42	60	18	4
78	37	9	65	55	26	32	7
81	33	9	49	77	38	8	9
84	30	26	40	67	68	8	8
87	9	-	54	69	56	-	4
90	12	9	28	82	26	-	2
93	3	-	34	62	34	-	2
96	1	9	19	85	30	-	-
99	-	-	19	96	26	-	4
102	-	-	9	74	17	-	-
105	-	-	8	30	-	-	-
108	-	-	5	52	-	-	-
111	-	-	3	15	-	-	-
114	-	-	3	15	-	-	-
117	-	-	2	7	-	-	-
120	-	-	2	15	-	-	-
123	-	-	2	7	-	-	-
126	-	-	-	-	-	-	-
129	-	-	-	7	-	-	-
132	-	-	-	-	-	-	-
135	-	-	-	7	-	-	-
Total %/oo	1000	1000	1000	999	1000	1000	1000
Serial Numbers	-	-	148-150	151	-	-	-
Number of Samples	4	1	3	1	1	2	2
Number of Fish Measured	377	112	846	217	128	286	232
Mean Length (cm)	60.88	59.10	70.9	91.0	70.38	56.77	57.09
Mean Weight (kg)	2.51	2.46	4.42	8.14	3.97	2.15	2.21
Total Weight Landed (tons)	712	829	785	674	835	1189	1282
Estimated Number Landed	282600	337400	177602	82801	210600	551200	580800
Mesh(mm) or Hook(no.) Size	114	114	4.5 ¹	4.5 ¹	114	114	114
Range of Depths (fm)	17-35	70-85	40-125	75-80	13-17	14-22	25-80

¹ inches

TABLE 24 LENGTH FREQUENCIES - COD - 5Z - 1967
(cont'd)

(FREQUENCIES IN % - 3 CM GROUPS)

GEAR	Otter Trawl					
	(Commercial)					
CATCHES/LANDINGS	Landings					
MONTH	July	August	September	October	November	December
COUNTRY	United States					
TONNAGE	0-458					
36	-	-	-	-	29	3
39	7	-	-	-	50	27
42	34	52	-	9	135	129
45	62	139	52	101	95	95
48	197	183	97	150	113	129
51	105	64	77	126	105	104
54	55	123	97	101	92	140
57	35	109	160	123	79	133
60	55	139	103	110	52	66
63	55	74	174	119	44	48
66	98	40	103	73	31	33
69	64	38	71	42	52	18
72	41	22	13	22	-	9
75	55	-	19	6	19	15
78	62	5	7	3	-	21
81	21	12	-	9	4	10
84	27	-	13	-	15	9
87	13	-	-	-	49	5
90	7	-	7	6	36	6
93	-	-	-	-	-	-
96	7	-	7	-	-	-
Total %/oo	1000	1000	1000	1000	1000	1000
Serial Numbers	-	-	-	-	-	-
Number of Samples	1	2	1	2	2	2
Number of Fish Measured	144	281	155	224	198	286
Mean Length (cm)	61.23	55.56	60.38	57.33	56.21	54.85
Mean Weight (kg)	2.86	2.02	2.55	2.22	2.31	2.00
Total Weight Landed (tons)	1268	1633	1133	1442	603	586
Estimated Number Landed	443800	807700	444200	650800	260600	293100
Mesh(mm) or Hook(no.) Size	114	114	114	114	114	114
Range of Depths (fm)	36-NK	18-25	10-34	18-25	10-34	4-21

TABLE 25

AGE/LENGTH KEY - COD - 1A - 1967 (3rd QUARTER)

GEAR		Greenlanders' (Commercial)																						
CATCHES OR LANDINGS		NK																						
COUNTRY		Denmark (Greenland)																						
TONNAGE		0-50																						
STRUCTURES USED IN AGE DETERMINATION		Otoliths																						
Length Group (3 cm)	Age	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE					
																			Months Within Quarter					
																Jul	Aug	Sep						
51	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1							
54	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	8							
57	5	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	13							
60	7	11	3	-	-	-	-	-	-	-	-	-	-	-	-	-	21							
63	7	22	10	-	-	-	-	-	-	-	-	-	-	-	-	-	39							
66	3	25	18	-	-	-	-	-	-	-	-	-	-	-	-	-	46							
69	3	19	20	-	-	1	-	-	-	-	-	-	-	-	-	-	43							
72	-	8	15	3	-	-	-	-	-	-	-	-	-	-	-	-	26							
75	-	7	12	1	-	-	-	-	-	-	-	-	-	-	-	-	20							
78	-	1	7	1	-	1	1	-	-	-	-	-	-	-	-	-	11							
81	-	-	4	3	-	2	-	-	-	-	-	-	-	-	-	-	9							
84	-	-	1	-	-	3	-	1	-	-	-	-	-	-	-	-	5							
87	-	-	-	-	-	1	-	-	-	1	1	-	-	-	-	-	3							
90	-	-	-	1	-	-	-	-	-	2	-	-	-	-	-	1	4							
93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
99	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	2							
102	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1							
Total No. of Ages Read		28	102	95	9	-	8	1	1	-	5	1	1	-	-	-	1	252	X					
Serial Numbers																		No. of Age Samples						
X	Number of fish measured each month																	65	100	87				
	Mean length of fish (cm) each month																	68.1	70.4	69.2				
	Mean weight of fish (kg) each month																							
	Total weight caught or landed (tons) each month																							
	Estimated number caught or landed (whole numbers) each month																							
	Range of depths (m) each month																							
Mesh size (mm)																	Not trawled							

AGE COMPOSITIONS OF LANDINGS (PER MILLE)		
Month		Total

GEAR		Pound Net (Commercial)										
CATCHES OR LANDINGS		NK										
COUNTRY		Denmark (Greenland)										
TONNAGE		0-50										
STRUCTURES USED IN AGE DETERMINATION		Otoliths										
Length Group (3 cm)	Age	5	6	7	8	9	10	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
									Months Within Quarter	Apr	May	Jun
48		1	-	-	-	-	-	1				
51		1	2	-	-	-	-	3				
54		8	-	-	-	-	-	8				
57		12	5	-	-	-	-	17				
60		5	27	2	-	1	-	35				
63		12	33	4	-	-	-	49				
66		1	23	13	1	-	-	38				
69		-	5	11	-	-	1	17				
72		-	1	8	1	-	-	10				
75		-	1	8	1	-	-	10				
78		-	-	3	1	-	-	4				
81		-	-	3	1	-	-	4				
84		-	-	2	-	-	-	2				
87		-	-	-	-	-	-	-				
90		-	-	-	1	-	-	1				
93		-	-	-	-	-	-	-				
96		-	-	-	-	-	-	-				
99		-	-	-	-	-	-	-				
102		-	-	-	-	-	1	1				
Total No. of Ages Read		40	97	54	6	1	2	200	X			
Serial Numbers		No. of Age Samples										
X	Number of fish measured each month											200
	Mean length of fish (cm) each month											65.6
	Mean weight of fish (kg) each month											
	Total weight caught or landed (tons) each month											
	Estimated number caught or landed (whole numbers) each month											
	Range of depths (m) each month											
	Mesh size (mm)											

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	Total

TABLE 27

AGE/LENGTH KEY - COD - 1C - 1967 (2nd QUARTER)

GEAR		Greenlanders' (Commercial)												Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
CATCHES OR LANDINGS		NK													Months Within Quarter		
COUNTRY		Denmark (Greenland)												Apr	May	Jun	
TONNAGE		0-50															
STRUCTURES USED IN AGE DETERMINATION		Otoliths															
Length Group (3cm)	Age	4	5	6	7	8	9	10	11	12	13	14					
														Apr	May	Jun	
42	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	5	
45	2	1	-	-	-	-	-	-	-	-	-	-	3	-	-	15	
48	1	2	-	-	-	-	-	-	-	-	-	-	3	-	-	15	
51	-	4	-	-	-	-	-	-	-	-	-	-	4	-	-	20	
54	-	4	1	-	-	-	1	-	-	-	-	-	6	-	-	30	
57	-	6	3	-	-	-	-	1	-	-	-	-	10	-	-	50	
60	-	6	18	3	-	-	-	1	-	-	-	-	28	-	-	141	
63	-	-	23	2	-	-	-	1	-	-	-	-	26	-	-	131	
66	-	-	11	9	-	-	-	2	-	-	-	1	23	-	-	116	
69	-	-	7	7	-	-	-	1	-	-	-	-	15	-	-	75	
72	-	-	7	11	1	1	2	-	-	-	-	-	22	-	-	111	
75	-	-	3	3	2	-	2	-	-	-	-	-	10	-	-	50	
78	-	-	2	2	1	2	5	1	-	-	-	-	13	-	-	65	
81	-	-	-	3	1	1	5	-	-	-	-	1	11	-	-	55	
84	-	-	-	-	-	-	2	7	1	-	-	-	10	-	-	50	
87	-	-	-	1	1	-	2	-	-	-	-	-	4	-	-	20	
90	-	-	-	-	-	2	2	-	-	-	-	-	4	-	-	20	
93	-	-	-	-	-	-	1	-	-	-	-	1	2	-	-	10	
96	-	-	-	-	-	-	-	2	1	-	-	-	3	-	-	15	
99	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	5	
Total No. of Ages Read		4	23	75	41	6	10	33	3	-	1	3	199	999			
Serial Numbers	No. of Age Samples																
X	Number of fish measured each month												-	-	199		
	Mean length of fish (cm) each month												-	-	69.5		
	Mean weight of fish (kg) each month												-	-	-		
	Total weight caught or landed (tons) each month												-	-	-		
	Estimated number caught or landed (whole numbers) each month												-	-	-		
	Range of depths (m) each month												-	-	-		
Mesh size (mm)												Not trawled					
AGE COMPOSITIONS OF LANDINGS (PER MILLE)																	
Month												Total					

TABLE 28

AGE/LENGTH KEY - COD - 1D - 1967 (2nd QUARTER)

GEAR		Hand Line (Research)							
CATCHES OR LANDINGS		NK							
COUNTRY		Denmark (Greenland)							
TONNAGE		0-50							
STRUCTURES USED IN AGE DETERMINATION		Otoliths							
Length Group (3 cm)	Age					Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
		4	5	6	7		Months Within Quarter		
		Apr	May	Jun					
36	2	-	-	-	2				
39	6	-	-	-	6				
42	9	-	-	-	9				
45	21	-	-	-	21				
48	17	3	-	-	20				
51	12	9	-	-	21				
54	5	24	1	-	30				
57	1	10	5	-	16				
60	-	8	10	-	18				
63	-	1	17	2	20				
66	-	1	15	-	16				
69	-	-	11	1	12				
72	-	-	5	4	9				
75	-	-	-	-	-				
78	-	-	-	1	1				
81	-	-	-	1	1				
84	-	-	-	-	-				
87	-	-	-	1	1				
Total No. of Ages Read		73	56	64	10	203	X		
Serial Numbers		No. of Age Samples							
X		Number of fish measured each month				203			
		Mean length of fish (cm) each month				56.7			
		Mean weight of fish (kg) each month							
		Total weight caught or landed (tons) each month							
		Estimated number caught or landed (whole numbers) each month							
		Range of depths (m) each month				80-100			
Mesh size (mm)									

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	Total

TABLE 28
(cont'd)

AGE/LENGTH KEY - 1D - 1967 (2nd QUARTER)

GEAR		Bottom Long Line (Research)													Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
CATCHES OR LANDINGS		NK														Months Within Quarter			
COUNTRY		Norway																	
TONNAGE		NK																	
STRUCTURES USED IN AGE DETERMINATION		Otoliths																	
Length Group (3 cm)	Age	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Total No. of Ages Read			
															Apr		May	Jun	
39	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1				
42	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1				
45	4	-	-	-	-	-	-	-	-	-	-	-	-	-	4				
48	3	4	1	-	-	-	-	-	-	-	-	-	-	-	8				
51	2	13	3	-	-	-	-	-	-	-	-	-	-	-	18				
54	-	27	22	-	-	-	-	-	-	-	-	-	-	-	49				
57	-	25	48	1	-	-	-	-	-	-	-	-	-	-	74				
60	-	13	123	7	-	-	-	-	-	-	-	-	-	-	143				
63	-	2	164	36	-	-	-	-	-	-	-	-	-	-	202				
66	-	-	110	80	-	-	-	-	-	-	-	-	-	-	190				
69	-	-	57	75	1	-	-	-	-	-	-	-	-	-	133				
72	-	-	27	109	6	-	-	-	-	-	-	-	-	-	142				
75	-	-	4	76	4	-	1	-	-	-	-	-	-	-	85				
78	-	-	2	40	16	2	2	-	-	-	-	-	-	-	62				
81	-	-	-	16	15	5	5	-	-	-	-	-	-	-	41				
84	-	-	-	2	6	3	12	3	-	-	2	-	-	-	28				
87	-	-	-	-	6	1	7	1	1	-	1	-	-	1	18				
90	-	-	-	-	3	5	3	2	-	-	2	-	-	-	15				
93	-	-	-	-	-	-	1	1	-	-	-	-	-	-	2				
96	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1				
99	-	-	-	-	-	1	1	-	-	1	1	-	-	-	4				
102	-	-	-	-	-	-	-	-	1	-	1	-	-	-	2				
105	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2				
108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
120	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2				
Total No. of Ages Read		11	84	561	442	57	17	32	7	2	1	12	-	-	1	1227	X		
Serial Numbers		No. of Age Samples																	
X		Number of fish measured each month													1227				
		Mean length of fish (cm) each month													68.43				
		Mean weight of fish (kg) each month																	
		Total weight caught or landed (tons) each month																	
		Estimated number caught or landed (whole numbers) each month																	
		Range of depths (m) each month																	
		Mesh size (mm)													6				

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	Total

TABLE 29

AGE/LENGTH KEY - COD - 1E - 1967 (2nd QUARTER)

GEAR		Greenlanders' (Commercial) ¹											
CATCHES OR LANDINGS		NK											
COUNTRY		Denmark (Greenland)											
TONNAGE		0-50											
STRUCTURES USED IN AGE DETERMINATION		Otoliths											
Length Group (3 cm)	Age	4	5	6	7	8	9	10	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
										Months Within Quarter			
										Apr	May ²	Jun ²	
39		4	-	-	-	-	-	-	4				
42		16	2	-	-	-	-	-	18				
45		15	13	1	-	-	-	-	29				
48		11	17	5	-	-	-	-	33				
51		2	11	2	-	-	-	-	15				
54		-	5	7	-	-	-	-	12				
57		-	8	11	-	-	-	-	19				
60		-	2	22	-	-	-	-	24				
63		-	-	15	-	-	-	-	15				
66		-	-	15	-	-	-	-	15				
69		-	-	3	2	-	-	-	5				
72		-	-	1	2	-	-	-	3				
75		-	-	1	-	1	-	-	2				
78		-	-	-	-	-	1	-	1				
81		-	-	-	1	-	-	-	1				
84		-	-	-	-	-	-	-	-				
87		-	-	-	-	-	1	1	2				
90		-	-	-	-	-	-	-	-				
93		-	-	-	-	-	-	-	-				
96		-	-	-	-	-	1	-	1				
Total No. of Ages Read		48	58	83	5	1	3	1	199	X			
Serial Numbers		No. of Age Samples											
X		Number of fish measured each month											199
		Mean length of fish (cm) each month											55.3
		Mean weight of fish (kg) each month											
		Total weight caught or landed (tons) each month											
		Estimated number caught or landed (whole numbers) each month											
		Range of depths (m) each month											
Mesh size (mm) ¹													
AGE COMPOSITIONS OF LANDINGS (PER MILLE)													
Month												Total	

¹ not trawled² 29 May - 7 June

TABLE 29
(cont'd)

AGE/LENGTH KEY - COD - 1E - 1967 (2nd QUARTER)

GEAR		Bottom Long Line (Research)													Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
CATCHES OR LANDINGS		NK														Months Within Quarter		
COUNTRY		Norway																
TONNAGE		NK																
STRUCTURES USED IN AGE DETERMINATION		Otoliths																
Length Group (3 cm)	Age	4	5	6	7	8	9	10	11	12	13	14	15	16	Apr	May	Jun	
		42	2	-	-	-	-	-	-	-	-	-	-	-				-
45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
48	3	5	-	-	-	-	-	-	-	-	-	-	-	-	8			
51	1	13	5	1	-	-	-	-	-	-	-	-	-	-	20			
54	1	17	8	-	-	-	-	-	-	-	-	-	-	-	26			
57	-	23	44	2	-	-	-	-	-	-	-	-	-	-	69			
60	-	9	96	8	-	-	-	-	-	-	-	-	-	-	113			
63	-	2	128	33	-	-	-	-	-	-	-	-	-	-	163			
66	-	-	99	50	-	-	-	-	-	-	-	-	-	-	149			
69	-	-	48	66	-	-	-	1	-	-	-	-	-	-	115			
72	-	-	22	80	4	-	1	-	-	-	-	-	-	-	107			
75	-	-	7	68	11	-	-	-	-	-	-	-	-	-	86			
78	-	-	1	44	8	2	3	-	-	-	-	-	-	-	58			
81	-	-	-	10	14	3	1	-	-	-	-	-	-	-	28			
84	-	-	-	4	10	4	2	1	-	-	-	-	-	-	21			
87	-	-	-	1	2	1	4	-	-	-	-	-	-	-	8			
90	-	-	-	1	3	-	4	-	-	-	-	-	-	-	8			
93	-	-	-	-	-	1	1	-	-	-	-	2	-	-	4			
96	-	-	-	-	1	-	1	-	1	-	-	-	-	-	3			
99	-	-	-	-	-	-	-	1	-	-	1	-	1	-	3			
102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
108	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1			
Total No. of Ages Read		7	69	458	368	53	11	17	3	1	-	4	-	1	992	X		
Serial Numbers		No. of Age Samples																
X		Number of fish measured each month													992			
		Mean length of fish (cm) each month													68.36			
		Mean weight of fish (kg) each month																
		Total weight caught or landed (tons) each month																
		Estimated number caught or landed (whole numbers) each month																
		Range of depths (m) each month																
		Mesh size (mm)																

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	Total

GEAR		Pound Net (Commercial)											
CATCHES OR LANDINGS		NK											
COUNTRY		Denmark (Greenland)											
TONNAGE		0-50											
STRUCTURES USED IN AGE DETERMINATION		Otoliths											
Length Group (3 cm)	Age	4	5	6	7	8	9	10	11	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
											Months Within Quarter	Apr	May
42		1	-	-	-	-	-	-	-	1			
45		5	3	1	-	-	-	-	-	9			
48		2	4	1	-	-	-	-	-	7			
51		-	7	1	-	-	-	-	-	8			
54		2	15	7	-	-	-	-	-	24			
57		-	7	15	-	-	-	-	-	22			
60		-	2	36	-	-	-	-	-	38			
63		-	1	25	1	-	-	-	-	27			
66		-	-	23	3	-	-	-	-	26			
69		-	1	17	4	-	-	-	-	22			
72		-	-	4	-	-	1	-	-	5			
75		-	-	1	2	-	-	-	-	3			
78		-	-	1	1	1	-	-	-	3			
81		-	-	-	-	1	-	-	-	1			
84		-	-	-	-	-	-	-	-	-			
87		-	-	-	-	-	-	-	-	-			
90		-	-	-	-	-	-	-	1	1			
93		-	-	-	-	-	-	-	-	-			
96		-	-	-	-	-	-	1	-	1			
Total No. of Ages Read		10	40	132	11	2	1	1	1	198	X		
Serial Numbers		No. of Age Samples											
X		Number of fish measured each month									198		
		Mean length of fish (cm) each month									61.9		
		Mean weight of fish (kg) each month											
		Total weight caught or landed (tons) each month											
		Estimated number caught or landed (whole numbers) each month											
		Range of depths (m) each month											
		Mesh size (mm)											

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	Total

TABLE 30
(cont'd)

AGE/LENGTH KEY - COD - 1F - 1967 (2nd QUARTER)

GEAR		Greenlanders' (Commercial) ¹											
CATCHES OR LANDINGS		NK											
COUNTRY		Denmark (Greenland)											
TONNAGE		0-50											
STRUCTURES USED IN AGE DETERMINATION		Otoliths											
Length Group (3 cm)	Age	4	5	6	7	8	9	10	11	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
											Months Within Quarter		
											Apr	May	Jun
39		1	-	-	-	-	-	-	-	1			
42		9	5	-	-	-	-	-	-	14			
45		23	9	-	-	-	-	-	-	32			
48		5	7	2	-	-	-	-	-	14			
51		-	7	4	-	-	-	-	-	11			
54		-	9	9	-	-	-	-	-	18			
57		-	3	5	1	2	-	-	-	11			
60		-	6	18	1	-	-	-	-	25			
63		-	-	15	1	-	-	-	-	16			
66		-	-	4	2	-	-	-	-	6			
69		-	-	12	3	-	-	2	1	18			
72		-	-	4	2	-	-	1	-	7			
75		-	-	1	3	-	-	1	-	5			
78		-	-	-	-	-	-	1	1	2			
81		-	-	-	1	-	-	-	-	1			
84		-	-	-	-	1	-	1	-	4			
87		-	-	-	-	-	-	1	1	2			
90		-	-	-	-	-	-	2	2	5			
93		-	-	-	-	-	-	2	-	2			
96		-	-	-	-	-	-	-	2	2			
99		-	-	-	-	-	-	-	1	1			
Total No. of Ages Read		38	46	74	14	3	7	8	7	197	X		
Serial Numbers		No. of Age Samples											
X		Number of fish measured each month											197
		Mean length of fish (cm) each month											59.9
		Mean weight of fish (kg) each month											
		Total weight caught or landed (tons) each month											
		Estimated number caught or landed (whole numbers) each month											
		Range of depths (m) each month											
		Mesh size (mm) 1											

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	Total

¹ not trawled

TABLE 30
(cont'd)

AGE/LENGTH KEY - COD - 1P - 1967 (2nd QUARTER)

GEAR		Bottom Long Line (Research)													
CATCHES OR LANDINGS		NK													
COUNTRY		Norway													
TONNAGE		NK													
STRUCTURES USED IN AGE DETERMINATION		Otoliths													
Length Group (3 cm)	Age	4	5	6	7	8	9	10	11	12	13	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
													Months Within Quarter		
												Apr	May	Jun	
42		1	2	-	-	-	-	-	-	-	-	3			
45		1	2	-	-	-	-	-	-	-	-	3			
48		3	3	-	-	-	-	-	-	-	-	6			
51		1	8	1	-	-	-	-	-	-	-	10			
54		-	8	9	-	-	-	-	-	-	-	17			
57		-	10	23	-	-	-	-	-	-	-	33			
60		-	7	47	1	-	-	-	-	-	-	55			
63		-	2	74	3	-	-	-	-	-	-	79			
66		-	-	62	6	1	-	-	-	-	-	69			
69		-	-	46	14	-	-	-	-	-	-	60			
72		-	-	29	29	5	-	-	-	-	-	63			
75		-	-	14	28	2	1	-	-	-	-	45			
78		-	-	1	15	4	4	-	-	-	-	24			
81		-	-	-	12	13	2	-	-	-	-	27			
84		-	-	-	5	9	2	1	-	-	-	17			
87		-	-	-	-	6	8	1	-	-	1	16			
90		-	-	-	-	4	12	2	1	1	1	21			
93		-	-	-	-	1	7	3	1	-	-	12			
96		-	-	-	-	-	1	2	-	-	-	3			
99		-	-	-	-	-	-	1	-	1	-	2			
102		-	-	-	-	-	-	-	1	-	-	1			
105		-	-	-	-	-	-	-	-	-	-	-			
108		-	-	-	-	-	-	-	-	-	-	-			
111		-	-	-	-	-	-	-	1	-	-	1			
Total No. of Ages Read		6	42	306	113	45	37	10	4	2	2	567	X		
Serial Numbers		No. of Age Samples 2													
X	Number of fish measured each month												567		
	Mean length of fish (cm) each month												70.32		
	Mean weight of fish (kg) each month														
	Total weight caught or landed (tons) each month														
	Estimated number caught or landed (whole numbers) each month														
	Range of depths (m) each month														
Mesh size (mm)															

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	Total

TABLE 32
(cont'd)

AGE/LENGTH TABLE - COD - IC - 1967 (4th QUARTER)

GEAR		Otter Trawl (Commercial)													
CATCHES OR LANDINGS		Landings													
COUNTRY		Germany, Federal Republic													
TONNAGE		900-1800													
STRUCTURES USED IN AGE DETERMINATION		Otoliths													
Length Group (3 cm)	Age	3	4	5	6	7	8	9	10	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE				
											Months Within Quarter				
											Oct	Nov	Dec		
45		1	-	-	-	-	-	-	-	1	-	-	5		
48		-	3	-	-	-	-	-	-	3	-	-	13		
51		-	10	1	-	-	-	-	-	11	-	-	72		
54		-	12	3	1	-	-	-	-	16	-	-	110		
57		-	9	8	-	-	-	-	-	17	-	-	146		
60		-	6	10	3	-	-	-	-	19	-	-	159		
63		-	3	9	4	2	-	-	-	18	-	-	164		
66		-	-	15	9	-	-	-	-	24	-	-	123		
69		-	-	1	14	-	-	-	-	15	-	-	79		
72		-	-	1	10	2	-	-	1	14	-	-	63		
75		-	-	-	9	3	-	-	-	12	-	-	31		
78		-	-	-	7	3	-	-	1	11	-	-	18		
81		-	-	-	6	2	-	-	2	10	-	-	9		
84		-	-	-	5	3	-	1	1	10	-	-	2		
87		-	-	-	1	3	1	1	-	6	-	-	3		
90		-	-	-	-	-	2	1	1	4	-	-	3		
Total No. of Ages Read		1	43	48	69	18	3	3	6	191	999				
Serial Numbers 58		No. of Age Samples 1													
X		Number of fish measured each month											-	-	983
		Mean length of fish (cm) each month											-	-	63.4
		Mean weight of fish (kg) each month											-	-	-
		Total weight caught or landed (tons) each month											-	-	356
		Estimated number caught or landed (whole numbers) each month											-	-	178434
		Range of depths (m) each month											-	-	-
		Mesh size (mm)											-	-	-

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	9	10	Total
Oct	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-
Dec	5	315	349	275	46	3	-	7	1000

TABLE 32
(cont'd)

AGE/LENGTH TABLE - COD - 1C - 1967 (4th QUARTER)

GEAR		Otter Trawl (Research)										
CATCHES OR LANDINGS		Catches										
COUNTRY		Germany, Federal Republic										
TONNAGE		over 1800										
STRUCTURES USED IN AGE DETERMINATION		Otoliths										
Length Group (3 cm)	Age	2	3	4	5	6	7	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
									Months Within Quarter			
									Oct	Nov	Dec	
30	-	-	1	-	-	-	-	1	2	-	-	
33	2	-	5	-	-	-	-	7	12	-	-	
36	-	-	16	1	1	-	-	18	35	-	-	
39	-	-	12	2	-	-	-	14	33	-	-	
42	-	-	6	3	-	-	-	9	33	-	-	
45	-	-	3	3	-	-	-	6	32	-	-	
48	-	-	-	2	-	-	-	2	23	-	-	
51	-	-	1	-	1	-	-	2	18	-	-	
54	-	-	-	1	1	-	-	2	33	-	-	
57	-	-	-	-	1	-	-	1	45	-	-	
60	-	-	-	-	5	-	-	5	80	-	-	
63	-	-	-	-	8	4	-	12	122	-	-	
66	-	-	-	-	9	6	-	15	133	-	-	
69	-	-	-	-	3	9	-	12	128	-	-	
72	-	-	-	-	1	9	-	10	104	-	-	
75	-	-	-	-	-	7	-	7	87	-	-	
78	-	-	-	-	-	3	1	4	44	-	-	
81	-	-	-	-	-	5	1	6	21	-	-	
84	-	-	-	-	-	-	1	1	8	-	-	
87	-	-	-	-	-	-	-	-	5	-	-	
90	-	-	-	-	-	-	-	-	1	-	-	
93	-	-	-	-	-	-	-	-	1	-	-	
Total No. of Ages Read		2	44	12	30	43	3	134	1000	-	-	
Serial Numbers 442, 443		No. of Age Samples 2										
		Number of fish measured each month							663	-	-	
		Mean length of fish (cm) each month							64.2	-	-	
		Mean weight of fish (kg) each month							-	-	-	
		Total weight caught or landed (tons) each month							2.3	-	-	
		Estimated number caught or landed (whole numbers) each month							1000	-	-	
		Range of depths (m) each month							-	-	-	
		Mesh size (mm)							110	-	-	

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	2	3	4	5	6	7	Total
Oct	3	117	73	356	422	29	1000
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-

TABLE 33
(cont'd)

AGE/LENGTH TABLE - COD - 1D - 1967 (1st QUARTER)

GEAR		Long Line (Commercial)												Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
CATCHES OR LANDINGS		NK													Months Within Quarter		
COUNTRY		Denmark (Greenland)															
TONNAGE		104.22															
STRUCTURES USED IN AGE DETERMINATION		Otoliths															
Length Group (3 cm)	Age	3	4	5	6	7	8	9	10	11	12	13	14	Total No. of Ages Read	Months Within Quarter		
															Jan	Feb	Mar
39		1	1	-	-	-	-	-	-	-	-	-	-	2	-	-	3
42		-	13	1	-	-	-	-	-	-	-	-	-	14	-	-	26
45		-	10	5	-	-	-	-	-	-	-	-	-	15	-	-	72
48		-	5	10	-	-	-	-	-	-	-	-	-	15	-	-	68
51		-	3	11	1	-	-	-	-	-	-	-	-	15	-	-	105
54		-	-	5	9	1	-	-	-	-	-	-	-	15	-	-	91
57		-	-	4	10	1	-	-	-	-	-	-	-	15	-	-	116
60		-	-	-	14	1	-	-	-	-	-	-	-	15	-	-	132
63		-	-	-	11	4	-	-	-	-	-	-	-	15	-	-	124
66		-	-	-	12	3	-	-	-	-	-	-	-	15	-	-	93
69		-	-	-	6	9	-	-	-	-	-	-	-	15	-	-	71
72		-	-	-	4	10	-	-	1	-	-	-	-	15	-	-	35
75		-	-	-	-	10	-	-	2	-	-	-	-	12	-	-	22
78		-	-	-	-	8	1	-	1	-	-	-	-	10	-	-	14
81		-	-	-	-	5	4	1	-	-	-	-	-	10	-	-	14
84		-	-	-	-	2	-	1	-	-	-	-	-	3	-	-	4
87		-	-	-	-	1	-	-	-	-	-	-	1	2	-	-	3
90		-	-	-	-	-	2	-	1	1	-	-	1	5	-	-	7
93		-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	1
Total No. of Ages Read		1	32	36	67	55	8	2	5	1	-	-	2	209	1001		
Serial Numbers		No. of Age Samples															
X		Number of fish measured each month												-	-	734	
		Mean length of fish (cm) each month												-	-	60.0	
		Mean weight of fish (kg) each month												-	-	-	
		Total weight caught or landed (tons) each month												-	-	18.3	
		Estimated number caught or landed (whole numbers) each month												-	-	-	
		Range of depths (m) each month												-	-	-	
		Mesh size (mm)												-	-	-	

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	9	10	11	12	13	14	Total
Jan	-	-	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-	-	-
Mar	2	117	209	465	181	11	3	9	1	-	-	3	1001

TABLE 34

AGE/LENGTH TABLE - COD - 1E - 1967 (1st QUARTER)

GEAR		Otter Trawl (Commercial)													
CATCHES OR LANDINGS		Landings													
COUNTRY		Germany, Federal Republic													
TONNAGE		900-1800													
STRUCTURES USED IN AGE DETERMINATION		Otoliths													
Length Group (3 cm)	Age	5	6	7	8	9	10	11	12	13	14	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
													Months Within Quarter	Jan	Feb
48	1	-	-	-	-	-	-	-	-	-	1	-	-	1	
51	4	1	-	-	-	-	-	-	-	-	5	-	-	3	
54	6	8	-	-	-	-	-	-	-	-	14	-	-	18	
57	12	18	1	-	-	-	-	-	-	-	31	-	-	87	
60	12	43	3	-	-	-	-	-	-	-	58	-	-	186	
63	1	46	7	-	-	-	-	-	-	-	54	-	-	193	
66	-	30	12	-	-	-	-	-	-	-	42	-	-	172	
69	-	11	19	1	-	-	-	-	-	-	31	-	-	178	
72	-	10	10	-	-	-	-	-	-	-	20	-	-	72	
75	-	4	12	-	1	1	-	-	-	-	18	-	-	51	
78	-	4	7	3	1	5	-	1	-	1	22	-	-	16	
81	-	3	6	4	4	8	-	-	-	-	25	-	-	13	
84	-	-	1	3	2	5	-	-	-	-	11	-	-	3	
87	-	-	-	2	2	9	2	-	1	-	16	-	-	4	
90	-	-	-	1	1	2	1	-	-	-	5	-	-	1	
93	-	-	-	-	-	8	2	-	-	-	10	-	-	1	
96	-	-	-	-	-	-	-	-	-	1	1	-	-	1	
Total No. of Ages Read		36	178	78	14	11	38	5	1	1	2	364	1000		
Serial Numbers		21, 24										No. of Age Samples 2			
X		Number of fish measured each month											-	-	945
		Mean length of fish (cm) each month											-	-	66.8
		Mean weight of fish (kg) each month											-	-	-
		Total weight caught or landed (tons) each month											-	-	646
		Estimated number caught or landed (whole numbers) each month											-	-	291736
		Range of depths (m) each month											-	-	-
Mesh size (mm)													-	-	-

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	5	6	7	8	9	10	11	12	13	14	Total
Jan	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	88	600	273	11	7	17	1	1	-	2	1000

TABLE 34
(cont'd)

AGE/LENGTH TABLE - COD - 1E - 1967 (2nd QUARTER)

GEAR		Otter Trawl (Research)																				Total No. of Ages Read		
CATCHES OR LANDINGS		NK																				1000		
COUNTRY		Denmark (Greenland)																				1000		
TONNAGE		900-1800																				1000		
STRUCTURES USED IN AGE DETERMINATION		Otoliths																				1000		
Length Group (3 cm)	Age	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE				
																				Months Within Quarter				
																	Apr	May	Jun					
45	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	10	1			
48	2	8	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	20	4			
51	3	12	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	35	17			
54	-	25	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	-	56	28			
57	2	16	38	1	-	-	-	-	-	-	-	-	-	-	-	-	-	57	-	94	47			
60	-	5	52	3	-	-	-	-	-	-	-	-	-	-	-	-	-	60	-	110	83			
63	-	3	47	9	1	-	-	-	-	-	-	-	-	-	-	-	-	60	-	127	109			
66	-	-	33	26	1	-	-	-	-	-	-	-	-	-	-	-	-	60	-	123	114			
69	-	-	32	27	1	-	-	-	-	-	-	-	-	-	-	-	-	60	-	118	111			
72	-	-	28	30	1	1	-	-	-	-	-	-	-	-	-	-	-	60	-	99	105			
75	-	-	6	41	5	6	2	-	-	-	-	-	-	-	-	-	-	60	-	71	95			
78	-	-	13	33	3	4	7	-	-	-	-	-	-	-	-	-	-	60	-	46	74			
81	-	-	6	33	6	2	12	-	-	-	1	-	-	-	-	-	-	60	-	33	50			
84	-	-	1	20	5	5	19	-	-	-	-	-	-	-	-	-	-	50	-	18	48			
87	-	-	1	3	9	3	23	1	2	-	1	1	-	-	-	-	-	44	-	17	33			
90	-	-	-	3	2	9	21	-	2	1	-	-	-	-	-	-	-	38	-	9	27			
93	-	-	-	2	1	3	8	1	-	4	1	-	-	-	-	-	-	20	-	5	20			
96	-	-	-	-	1	1	8	1	2	-	2	-	-	-	-	-	-	15	-	2	14			
99	-	-	-	-	-	-	5	2	-	-	1	-	-	-	-	-	-	8	-	2	6			
102	-	-	-	-	1	-	7	1	-	-	-	-	-	1	-	-	1	11	-	1	6			
105	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	2	-	1	4			
108	-	-	-	-	-	-	1	-	-	-	1	1	-	-	-	-	-	3	-	1	2			
111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2			
114	-	-	-	-	-	-	-	-	2	-	1	1	-	-	-	-	-	4	-	+	+			
117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	+			
120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
123	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	+	-			
126	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	+			
Total No. of Ages Read	7	70	286	231	37	34	114	6	8	6	9	4	-	1	-	-	2	815						
Serial Numbers	No. of Age Samples																							
X	Number of fish measured each month																			-	5129	4967		
	Mean length of fish (cm) each month																			-	70.2	72.2		
	Mean weight of fish (kg) each month																			-	-	-		
	Total weight caught or landed (tons) each month																			-	-	-		
	Estimated number caught or landed (whole numbers) each month																			-	-	-		
	Range of depths (m) each month																			-	183-384	73-384		
Mesh size (mm)																			-	-	-			

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total
Apr	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	12	116	492	283	25	19	40	1	1	1	2	1	-	1	-	-	1	995
Jun	5	54	409	332	39	35	98	5	5+	5+	6+	3+	-	1	-	-	1+	998

TABLE 35

AGE/LENGTH TABLE - COD - 1F - 1967 (1st QUARTER)

GEAR		Otter Trawl (Commercial)														
CATCHES OR LANDINGS		Landings														
COUNTRY		Germany, Federal Republic														
TONNAGE		500-900														
STRUCTURES USED IN AGE DETERMINATION		Otoliths														
Length Group (3 cm)	Age	5	6	7	8	9	10	11	12	13	14	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
		Months Within Quarter			Jan	Feb	Mar									
48	1	-	-	-	-	-	-	-	-	-	1	-	-	6		
51	-	1	-	-	-	-	-	-	-	-	1	-	-	12		
54	-	6	-	-	-	-	-	-	-	-	6	-	-	41		
57	1	13	1	-	-	-	-	-	-	-	15	-	-	105		
60	2	20	3	-	-	-	-	-	-	-	25	-	-	182		
63	1	17	6	1	-	-	-	-	-	-	25	-	-	151		
66	-	13	8	-	-	-	-	-	-	-	21	-	-	145		
69	-	10	18	1	-	-	-	-	-	-	29	-	-	169		
72	-	4	10	1	-	-	-	-	-	-	15	-	-	81		
75	-	3	6	1	-	1	-	-	-	-	11	-	-	49		
78	-	-	4	1	1	1	-	-	-	-	7	-	-	26		
81	-	2	6	1	-	4	-	-	-	-	13	-	-	22		
84	-	1	-	2	-	3	-	-	-	-	6	-	-	5		
87	-	-	2	-	-	1	-	1	-	-	4	-	-	2		
90	-	-	1	1	-	-	-	-	-	2	4	-	-	2		
93	-	-	-	-	1	-	-	-	-	1	2	-	-	1		
96	-	-	-	-	-	1	-	-	-	-	1	-	-	1		
Total No. of Ages Read		5	90	65	9	2	11	-	1	-	3	186			1000	
Serial Numbers	26											No. of Age Samples	1			
X	Number of fish measured each month											-	-	434		
	Mean length of fish (cm) each month											-	-	66.5		
	Mean weight of fish (kg) each month											-	-	-		
	Total weight caught or landed (tons) each month											-	-	53		
	Estimated number caught or landed (whole numbers) each month											-	-	26042		
	Range of depths (m) each month											-	-	-		
Mesh size (mm)											-	-	-			

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	5	6	7	8	9	10	11	12	13	14	Total
Jan	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	33	580	332	31	5	18	-	0	-	1	1000

TABLE 35
(cont'd)

AGE/LENGTH TABLE - COD - 1F - 1967 (1st QUARTER)

GEAR		Otter Trawl (Research)										
CATCHES OR LANDINGS		Catches										
COUNTRY		Germany, Federal Republic										
TONNAGE		over 1800										
STRUCTURES USED IN AGE DETERMINATION		Otoliths										
Length Group (3 cm)	Age	4	5	6	7	8	9	10	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
										Months Within Quarter	Jan	Feb
42	-	-	-	1	-	-	-	-	1	-	-	5
45	1	-	-	-	-	-	-	-	1	-	-	5
48	-	1	-	-	-	-	-	-	1	-	-	5
51	-	1	1	-	-	-	-	-	2	-	-	10
54	-	-	-	11	-	-	-	-	11	-	-	53
57	-	2	29	4	-	-	-	-	35	-	-	174
60	-	-	36	7	-	-	-	-	43	-	-	212
63	-	-	23	18	-	-	-	-	41	-	-	198
66	-	-	15	9	-	-	-	-	24	-	-	116
69	-	-	5	5	3	1	-	-	14	-	-	97
72	-	-	4	8	-	-	-	-	12	-	-	58
75	-	-	2	4	1	-	-	-	7	-	-	34
78	-	-	-	2	1	-	-	-	3	-	-	14
81	-	-	-	2	-	-	-	1	3	-	-	14
										-	-	995
Total No. of Ages Read		1	4	127	59	5	1	1	198			
Serial Numbers	29	No. of Age Samples 1										
X	Number of fish measured each month	-	-	-	-	-	-	-	-	-	-	201
	Mean length of fish (cm) each month	-	-	-	-	-	-	-	-	-	-	64.4
	Mean weight of fish (kg) each month	-	-	-	-	-	-	-	-	-	-	-
	Total weight caught or landed (tons) each month	-	-	-	-	-	-	-	-	-	-	-
	Estimated number caught or landed (whole numbers) each month	-	-	-	-	-	-	-	-	-	-	201
	Range of depths (m) each month	-	-	-	-	-	-	-	-	-	-	-
Mesh size (mm)	-	-	-	-	-	-	-	-	-	-	-	

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	4	5	6	7	8	9	10	Total
Jan	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-
Mar	5	20	631	302	29	7	6	1000

TABLE 36

AGE/LENGTH TABLE - COD - SOUTH EAST GREENLAND - 1967 (1st QUARTER)

GEAR		Otter Trawl (Commercial)																		
CATCHES OR LANDINGS		Landings																		
COUNTRY		Germany, Federal Republic																		
TONNAGE		500-900																		
STRUCTURES USED IN AGE DETERMINATION		Otoliths																		
Length Group (3 cm)	Age	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
																	Months Within Quarter			
														Jan	Feb	Mar				
45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-		
48	2	4	7	-	-	-	-	-	-	-	-	-	-	-	-	-	47	29		
51	1	8	14	-	-	-	-	-	-	-	-	-	-	-	-	-	86	90		
54	-	3	39	1	-	-	-	-	-	-	-	-	-	-	-	-	181	141		
57	-	1	51	3	-	-	-	-	-	-	-	-	-	-	-	-	166	141		
60	-	-	44	1	-	-	-	-	-	-	-	-	-	-	-	-	127	183		
63	-	-	48	4	-	1	-	-	-	-	-	-	-	-	-	-	114	193		
66	-	-	39	2	1	-	-	-	-	-	-	-	-	-	-	-	72	101		
69	-	-	27	11	2	1	1	-	-	-	-	-	-	-	-	-	48	46		
72	-	-	12	10	1	4	4	-	-	-	-	-	-	-	-	-	29	18		
75	-	-	-	10	4	5	5	1	-	-	-	-	-	-	-	-	31	14		
78	-	-	-	6	1	12	9	6	-	1	1	-	-	-	-	-	41	9		
81	-	-	2	7	4	15	10	3	1	-	-	-	-	-	-	-	16	12		
84	-	-	-	5	-	16	17	5	1	-	-	1	-	-	-	-	24	9		
87	-	-	1	3	1	10	9	1	2	1	1	-	-	-	-	-	8	6		
90	-	-	-	-	2	9	7	3	-	-	3	-	-	-	1	-	8	4		
93	-	-	-	-	-	2	4	1	-	1	-	-	1	-	-	-	-	1		
96	-	-	-	-	-	1	1	2	-	1	-	-	-	-	-	-	2	-		
99	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-		
102	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	0		
105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
108	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-		
Total No. of Ages Read		3	16	284	63	16	76	69	22	5	4	6	1	1	1	567				
Serial Numbers	1, 19, 22															No. of Age Samples	3			
X	Number of fish measured each month															450	450	369		
	Mean length of fish (cm) each month															62.8	62.0	78.0		
	Mean weight of fish (kg) each month															-	-	-		
	Total weight caught or landed (tons) each month															33	72	36		
	Estimated number caught or landed (whole numbers) each month															17345	42641	10489		
	Range of depths (m) each month															-	-	-		
Mesh size (mm)															-	-	-			

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Total
Jan	17	47	734	48	4	69	50	21	1	4	3	1	-	1	1000
Feb	-	66	832	48	13	18	14	7	-	-	2	-	-	-	1000
Mar	-	3	293	245	52	138	194	29	22	8	11	-	5	-	1000

TABLE 36
(cont'd)AGE/LENGTH TABLE - COD - SOUTH EAST GREENLAND - 1967 (1st QUARTER)¹

GEAR		Otter Trawl (Commercial)												
CATCHES OR LANDINGS		Landings												
COUNTRY		Germany, Federal Republic												
TONNAGE		500-900												
STRUCTURES USED IN AGE DETERMINATION		Otoliths												
Length Group (2 ¹ cm)	Age	4	5	6	7	8	9	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE					
		Months			Within Quarter				Jan	Feb	Mar			
46		2	-	-	-	-	-	2	-	-	6	-		
48		1	-	-	-	-	-	1	-	-	11	-		
50		5	2	-	-	-	-	7	-	-	40	-		
52		1	3	-	-	-	-	4	-	-	36	-		
54		1	2	-	-	-	-	3	-	-	29	-		
56		-	4	-	1	-	-	5	-	-	48	-		
58		-	6	2	-	-	-	8	-	-	75	-		
60		-	1	1	-	-	-	2	-	-	67	-		
62		-	2	7	2	-	-	11	-	-	77	-		
64		-	-	7	-	-	-	7	-	-	73	-		
66		-	-	6	7	2	-	15	-	-	134	-		
68		-	-	1	6	4	-	11	-	-	131	-		
70		-	-	-	1	1	-	2	-	-	71	-		
72		-	-	1	2	2	1	6	-	-	90	-		
74		-	-	-	1	4	-	5	-	-	81	-		
76		-	-	-	-	1	-	1	-	-	15	-		
78		-	-	-	-	-	-	-	-	-	8	-		
80		-	-	-	-	-	-	-	-	-	-	-		
82		-	-	-	-	-	1	1	-	-	8	-		
Total No. of Ages Read		10	20	25	20	14	2	91	1000			-		
Serial Numbers 13		No. of Age Samples 1												
X		Number of fish measured each month										-	215	-
		Mean length of fish (cm) each month										-	64.9	-
		Mean weight of fish (kg) each month										-	-	-
		Total weight caught or landed (tons) each month										-	1.4	-
		Estimated number caught or landed (whole numbers) each month										-	521	-
		Range of depths (m) each month										-	-	-
Mesh size (mm)										-	-	-		

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	4	5	6	7	8	9	Total
Jan	-	-	-	-	-	-	-
Feb	64	203	248	243	219	23	1000
Mar	-	-	-	-	-	-	-

¹ NOTE: This table is in 2 cm groups rather than in 3 cm groups.

AGE/LENGTH TABLE - COD - SOUTH EAST GREENLAND - 1967 (2nd QUARTER)

TABLE 36
(cont'd)

GEAR		Otter Trawl (Commercial)																				Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
CATCHES OR LANDINGS		Landings																					Months Within Quarter	Apr	May
COUNTRY		Germany, Federal Republic																							
TONNAGE		500-900																							
STRUCTURES USED IN AGE DETERMINATION		Otoliths																							
Length Group (3 cm)	Age	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	1000	1000	1000			
		48	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	2
51	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	10		
54	2	1	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	3	-	54		
57	2	2	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	3	23	110		
60	-	5	39	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	48	26	84	239		
63	1	1	44	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	15	95	214		
66	-	3	44	17	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	66	79	220	152		
69	-	1	29	18	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	83	205	73		
72	-	-	29	24	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	57	129	115	55		
75	-	-	13	18	2	5	2	1	-	-	-	-	-	-	-	-	-	-	-	41	126	92	19		
78	-	-	6	12	1	6	2	4	-	-	-	-	-	-	-	-	-	-	-	31	122	34	22		
81	-	-	3	10	5	8	8	2	-	-	-	-	-	-	-	-	-	-	-	36	116	33	7		
84	-	-	-	4	6	6	10	1	-	1	2	-	-	1	2	-	-	1	-	32	121	28	10		
87	-	-	-	6	-	10	10	3	1	-	1	-	-	-	-	-	-	-	-	31	56	13	9		
90	-	-	-	1	-	9	9	3	3	-	1	1	-	-	-	-	-	-	-	28	66	19	6		
93	-	-	-	-	-	3	4	2	4	1	2	1	-	-	-	-	-	-	-	17	14	15	7		
96	-	-	-	-	-	4	2	1	1	1	1	1	-	-	-	-	-	-	-	11	16	6	3		
99	-	-	-	-	-	3	-	3	1	-	-	1	1	1	-	-	-	-	-	10	11	8	3		
102	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	4	7	3	2		
105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1		
108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	-		
111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-		
114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-		
117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total No. of Ages Read		5	15	226	118	21	55	48	21	12	2	6	4	2	3	-	-	2	1	541					
Serial Numbers	30, 38, 43	No. of Age Samples																			3	399	381	409	
X	Number of fish measured each month																				79.3	71.8	65.7		
	Mean length of fish (cm) each month																				-	-	-		
	Mean weight of fish (kg) each month																				241	83	64		
	Total weight caught or landed (tons) each month																				65894	32681	33263		
	Estimated number caught or landed (whole numbers) each month																				-	-	-		
	Range of depths (m) each month																				-	-	-		
Mesh size (mm)																				-	-	-			

AGE COMPOSITIONS OF LANDINGS (PER MILLE)																					
Month	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	Total		
Apr	-	-	113	464	64	94	180	41	12	8	11	-	-	13	-	-	-	-	1000		
May	10	28	666	132	32	76	27	14	2	-	7	3	-	2	-	-	-	1	1000		
Jun	30	80	768	46	14	16	30	6	-	3	5	-	-	-	-	-	2	-	1000		

TABLE 36
(cont'd)

AGE/LENGTH TABLE - COD - SOUTH EAST GREENLAND - 1967 (3rd QUARTER)

GEAR		Otter Trawl (Commercial)													Total No. of Ages Read		LENGTH COMPOSITION PER MILLE			
CATCHES OR LANDINGS		Landings																		
COUNTRY		Germany, Federal Republic																		
TONNAGE		900-1800																		
STRUCTURES USED IN AGE DETERMINATION		Otoliths																		
Length Group (3 cm)	Age	4	5	6	7	8	9	10	11	12	13	14	15	Total No. of Ages Read	Months Within Quarter					
															Aug	Sep	Oct			
48		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
51		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	
54		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	-	-	
57		-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	
60		-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	46	-	-	
63		1	1	12	-	-	-	-	-	-	-	-	-	-	-	2	21	-	-	
66		-	1	13	2	-	-	-	-	-	-	-	-	-	-	14	94	-	-	
69		1	1	20	1	-	-	-	-	-	-	-	-	-	-	16	82	-	-	
72		-	-	24	1	1	1	-	-	-	-	-	-	-	-	23	149	-	-	
75		-	-	15	1	-	-	-	-	-	-	-	-	-	-	27	176	-	-	
78		-	-	11	1	1	2	-	-	-	-	-	-	-	-	16	117	-	-	
81		-	-	7	-	1	3	-	-	-	-	-	-	-	-	15	102	-	-	
84		-	-	9	-	-	4	1	1	-	-	-	-	-	-	11	27	-	-	
87		-	-	1	-	-	7	-	-	-	-	-	-	-	-	15	30	-	-	
90		-	-	-	-	-	5	1	1	-	-	-	-	-	-	8	17	-	-	
93		-	-	-	-	1	6	1	-	-	-	-	-	-	-	7	20	-	-	
96		-	-	-	-	-	2	1	1	-	-	-	-	1	-	9	10	-	-	
99		-	-	-	-	-	1	-	-	-	-	-	-	-	-	4	5	-	-	
102		-	-	-	-	-	1	-	1	-	-	-	-	-	-	1	1	-	-	
105		-	-	-	-	-	-	-	1	-	-	-	-	-	-	2	1	-	-	
		-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	2	-	-	
Total No. of Ages Read		2	3	115	6	4	32	4	5	-	-	-	1	172	1000	-	-			
Serial Numbers	45																			
		No. of Age Samples 1																		
		Number of fish measured each month													477					
		Mean length of fish (cm) each month													71.4					
		Mean weight of fish (kg) each month													-					
		Total weight caught or landed (tons) each month													-					
		Estimated number caught or landed (whole numbers) each month													21					
		Range of depths (m) each month													8366					
		Mesh size (mm)													-					
AGE COMPOSITIONS OF LANDINGS (PER MILLE)																				
Month	4	5	6	7	8	9	10	11	12	13	14	15	Total							
Aug	13	50	790	38	17	76	7	8	-	-	-	1	1000							
Sep	-	-	-	-	-	-	-	-	-	-	-	-	-							
Oct	-	-	-	-	-	-	-	-	-	-	-	-	-							

TABLE 37

AGE/LENGTH TABLE - COD - EAST GREENLAND¹ - 1967 (1st QUARTER)

GEAR		Otter Trawl (Commercial)														
CATCHES OR LANDINGS		Landings														
COUNTRY		Germany, Federal Republic														
TONNAGE		500-900														
STRUCTURES USED IN AGE DETERMINATION		Otoliths														
Length Group (3 cm)	Age	4	5	6	7	8	9	10	11	12	13	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
													Months Within Quarter			
													Jan	Feb	Mar	
45		2	-	-	-	-	-	-	-	-	-	2	-	-	2	
48		1	2	-	-	-	-	-	-	-	-	3	-	-	6	
51		7	7	1	-	-	-	-	-	-	-	15	-	19	17	
54		15	7	2	-	-	-	-	-	-	-	24	-	36	21	
57		6	6	7	-	-	-	-	-	-	-	19	-	25	26	
60		3	3	10	-	-	1	-	-	-	-	17	-	54	25	
63		-	8	9	-	-	-	-	-	-	-	17	-	47	19	
66		-	9	12	1	-	-	-	-	-	-	22	-	53	35	
69		-	4	11	-	-	4	1	-	-	-	20	-	61	54	
72		-	1	4	3	1	2	-	-	-	-	11	-	7	58	
75		-	-	9	1	1	5	-	-	-	-	16	-	37	55	
78		-	-	1	1	1	13	1	-	1	-	18	-	82	60	
81		-	-	2	1	3	14	1	1	-	-	22	-	81	104	
84		-	-	-	1	1	20	-	2	-	-	24	-	133	87	
87		-	1	-	1	1	19	-	1	-	1	24	-	148	105	
90		-	-	-	-	-	15	3	6	-	-	24	-	63	124	
93		-	-	-	-	-	11	4	5	-	-	20	-	86	105	
96		-	-	-	-	-	5	3	2	-	-	10	-	40	42	
99		-	-	-	-	-	3	-	2	1	-	6	-	12	19	
102		-	-	-	-	-	-	-	3	-	-	3	-	3	22	
105		-	-	-	-	-	-	-	1	-	-	1	-	2	6	
108		-	-	-	-	-	-	-	1	-	-	1	-	9	2	
111		-	-	-	-	-	-	-	1	-	-	1	-	1	5	
114		-	-	-	-	-	-	-	1	-	-	1	-	1	1	
													-	1000	1000	
Total No. of Ages Read		34	48	68	9	8	112	13	26	2	1	321				
Serial Numbers		6, 23										No. of Age Samples 2				
X													Number of fish measured each month	-	299	430
													Mean length of fish (cm) each month	-	80.4	82.5
													Mean weight of fish (kg) each month	-	-	-
													Total weight caught or landed (tons) each month	-	130	78
													Estimated number caught or landed (whole numbers) each month	-	30894	18469
													Range of depths (m) each month	-	-	-
Mesh size (mm)	-	-	-													

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	4	5	6	7	8	9	10	11	12	13	Total
Jan	-	-	-	-	-	-	-	-	-	-	-
Feb	42	111	173	36	40	418	53	97	22	8	1000
Mar	60	65	130	26	25	524	50	120	-	-	1000

¹ Dohrn Bank

TABLE 37
(cont'd)AGE/LENGTH TABLE - COD - EAST GREENLAND¹ - 1967 (2nd QUARTER)

GEAR		Otter Trawl (Commercial)																				Total No. of Ages Read			LENGTH COMPOSITION PER MILLE		
CATCHES OR LANDINGS		Landings																									
COUNTRY		Germany, Federal Republic																									
TONNAGE		500-900																									
STRUCTURES USED IN AGE DETERMINATION		Otoliths																									
Length Group (3 cm)	Age	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total No. of Ages Read	Months Within Quarter							
		Apr	May	Jun																							
48	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-					
51	4	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	2	-	-					
54	3	6	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	4	-	-					
57	1	1	17	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	11	-	-					
60	1	3	20	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	30	-	-					
63	-	1	24	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	54	-	-					
66	-	1	21	5	1	4	1	-	-	-	-	-	-	-	-	-	-	-	33	87	-	-					
69	-	-	34	2	2	1	3	-	-	-	-	-	-	-	-	-	-	-	42	104	-	-					
72	-	-	19	8	2	1	3	2	-	-	-	-	-	-	-	-	-	-	35	90	-	-					
75	-	-	16	15	2	9	2	2	-	-	-	-	-	-	-	-	-	-	46	103	-	-					
78	-	-	3	5	3	9	7	2	-	-	-	-	-	-	-	-	-	-	29	84	-	-					
81	-	-	2	5	3	10	6	6	-	-	-	-	-	-	-	-	-	-	32	84	-	-					
84	-	-	3	1	3	17	9	5	1	-	1	-	-	-	-	-	-	-	40	86	-	-					
87	-	-	1	5	2	22	14	9	2	-	1	-	-	-	-	-	-	-	56	76	-	-					
90	-	-	-	2	2	18	11	5	-	1	1	-	-	1	-	-	-	-	41	63	-	-					
93	-	-	-	-	1	11	14	3	-	-	-	-	-	-	-	-	-	-	29	41	-	-					
96	-	-	-	-	-	7	8	7	1	-	-	-	-	-	1	-	-	1	25	30	-	-					
99	-	-	-	-	-	2	8	3	2	-	2	-	-	-	-	-	-	-	17	20	-	-					
102	-	-	-	-	-	-	3	3	-	2	2	-	-	1	-	-	-	-	11	12	-	-					
105	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	2	7	-	-					
108	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	-	3	5	-	-					
111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	4	-	-					
114	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	-	-					
117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-					
Total No. of Ages Read		10	13	165	61	21	111	89	47	6	3	11	-	-	4	-	-	3	544	1000							
Serial Numbers		25, 34, 35																	No. of Age Samples			3					
X		Number of fish measured each month																	1427								
		Mean length of fish (cm) each month																	79.5								
		Mean weight of fish (kg) each month																	-								
		Total weight caught or landed (tons) each month																	446								
		Estimated number caught or landed (whole numbers) each month																	121072								
		Range of depths (m) each month																	-								
		Mesh size (mm)																	-								

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total
Apr	5	10	318	118	52	217	150	89	8	4	17	-	-	5	-	-	7	1000
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

¹ Angmagsalik

TABLE 37
(cont'd)AGE/LENGTH TABLE - COD - EAST GREENLAND¹ - 1967 (2nd QUARTER)

GEAR		Otter Trawl (Commercial)															
CATCHES OR LANDINGS		Landings															
COUNTRY		Germany, Federal Republic															
TONNAGE		500-900															
STRUCTURES USED IN AGE DETERMINATION		Otoliths															
Length Group (3 cm)	Age	3	4	5	6	7	8	9	10	11	12	13	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
		Months Within Quarter			Apr	May	Jun										
39		1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	
42		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
45		-	-	1	-	-	-	-	-	-	-	-	1	-	-	2	
48		-	3	1	-	-	-	-	-	-	-	-	4	-	-	3	
51		-	-	1	-	-	-	-	-	-	-	-	1	-	-	14	
54		-	2	-	3	-	-	-	-	-	-	-	5	-	-	13	
57		-	-	7	2	-	-	-	-	-	-	-	9	-	-	62	
60		-	5	3	2	-	-	-	-	-	-	-	10	-	-	72	
63		-	2	4	4	-	-	-	-	-	-	-	10	-	-	85	
66		-	-	2	9	2	-	-	-	-	-	-	13	-	-	106	
69		-	-	2	15	-	-	-	-	-	-	-	17	-	-	100	
72		-	-	2	12	1	-	-	-	-	-	-	15	-	-	121	
75		-	-	-	13	4	-	5	-	-	-	-	22	-	-	105	
78		-	-	1	8	1	-	6	-	1	-	-	17	-	-	57	
81		-	-	-	5	1	3	9	1	2	-	-	21	-	-	67	
84		-	-	-	-	-	-	7	-	1	-	-	8	-	-	63	
87		-	-	-	-	2	1	9	-	-	-	-	12	-	-	41	
90		-	-	-	-	-	-	9	1	3	-	-	13	-	-	45	
93		-	-	-	-	-	1	5	1	3	-	2	12	-	-	29	
96		-	-	-	-	-	-	1	2	-	-	-	3	-	-	11	
99		-	-	-	-	-	-	-	1	-	-	-	1	-	-	2	
102		-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	
105		-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Total No. of Ages Read		1	12	24	73	11	5	52	6	10	-	2	196	1000			
Serial Numbers	42												No. of Age Samples	1			
X	Number of fish measured each month												-	-	465		
	Mean length of fish (cm) each month												-	-	73.8		
	Mean weight of fish (kg) each month												-	-	-		
	Total weight caught or landed (tons) each month												-	-	106		
	Estimated number caught or landed (whole numbers) each month												-	-	36252		
	Range of depths (m) each month												-	-	-		
Mesh size (mm)												-	-	-			

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	9	10	11	12	13	Total
Apr	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-
Jun	1	60	167	434	57	15	52	6	10	-	2	1000

¹ Dohrn Bank

TABLE 37
(cont'd)AGE/LENGTH TABLE - COD - EAST GREENLAND¹ - 1967 (3rd QUARTER)

GEAR		Otter Trawl (Commercial)													Total No. of Ages Read		LENGTH COMPOSITION PER MILLE		
CATCHES OR LANDINGS		Commercial															Months Within Quarter		
COUNTRY		Germany, Federal Republic																	
TONNAGE		500-900																	
STRUCTURES USED IN AGE DETERMINATION		Otoliths																	
Length Group (3 cm)	Age	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Total No. of Ages Read	PER MILLE		
																	Jul	Aug	Sep
51	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	3	
54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	
57	2	1	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	15	
60	-	2	-	1	-	-	-	-	-	-	-	-	-	-	4	-	-	17	
63	1	-	3	-	-	-	-	-	-	-	-	-	-	-	4	-	-	21	
66	2	2	9	-	-	-	-	-	-	-	-	-	-	-	13	-	-	59	
69	1	-	12	-	-	-	-	1	-	-	-	-	-	-	14	-	-	91	
72	-	-	22	1	1	1	-	-	-	-	-	-	-	-	25	-	-	151	
75	-	-	13	2	-	-	-	-	-	-	-	-	-	-	15	-	-	112	
78	-	-	11	2	-	3	1	-	-	-	-	-	-	-	17	-	-	102	
81	-	-	10	1	1	7	-	-	-	-	-	-	-	-	19	-	-	96	
84	-	-	3	-	1	5	1	-	-	-	-	-	-	-	10	-	-	66	
87	-	-	1	1	2	4	-	2	-	-	-	-	-	1	11	-	-	69	
90	-	-	-	1	1	13	2	1	-	-	-	-	-	-	18	-	-	71	
93	-	-	-	-	1	4	2	3	-	-	-	-	-	-	10	-	-	45	
96	-	-	-	-	-	2	2	4	-	-	-	-	-	-	8	-	-	34	
99	-	-	-	-	-	2	1	1	-	-	-	-	-	-	4	-	-	19	
102	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	9	
105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
108	-	-	-	-	-	-	-	2	-	-	-	-	-	2	4	-	-	12	
Total No. of Ages Read		7	5	84	9	7	41	10	13	-	-	1	-	1	2	180	1000		
Serial Numbers		No. of Age Samples																	
X		Number of fish measured each month													-	-	400		
		Mean length of fish (cm) each month													-	-	80.1		
		Mean weight of fish (kg) each month													-	-	-		
		Total weight caught or landed (tons) each month													-	-	12		
		Estimated number caught or landed (whole numbers) each month													-	-	3024		
		Range of depths (m) each month													-	-	-		
		Mesh size (mm)													-	-	-		

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Total
Jul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sep	39	25	508	54	38	204	50	61	-	-	9	-	6	6	1000

¹ Dohrn Bank

TABLE 38

AGE/LENGTH TABLE - COD - 2H - 1967 (1st QUARTER)

GEAR		Otter Trawl (Research)														
CATCHES OR LANDINGS		Catches														
COUNTRY		USSR														
TONNAGE		3500														
STRUCTURES USED IN AGE DETERMINATION		Otoliths														
Length Group (3 cm)	Age	3	4	5	6	7	8	9	10	11	12	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
													Months Within Quarter	Jan	Feb	Mar
27	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1
30	-	1	-	-	-	-	-	-	-	-	-	1	11	-	-	1
33	-	1	-	-	-	-	-	-	-	-	-	1	42	-	-	11
36	-	8	-	-	-	-	-	-	-	-	-	8	57	2	-	29
39	-	18	5	-	-	-	-	-	-	-	-	23	81	23	-	48
42	-	9	22	2	-	-	-	-	-	-	-	33	111	71	-	118
45	1	5	39	17	1	-	-	-	-	-	-	63	138	127	-	182
48	-	2	26	25	9	-	-	-	-	-	-	62	123	213	-	158
51	-	-	14	20	8	-	-	1	-	-	-	43	110	175	-	132
54	-	1	1	11	7	-	-	1	-	-	-	21	110	163	-	96
57	-	-	-	8	8	6	-	-	-	-	-	22	90	85	-	77
60	-	-	-	5	5	5	-	-	-	-	-	15	65	65	-	59
63	-	-	-	-	2	-	-	2	-	-	-	4	24	30	-	31
66	-	-	-	-	-	-	2	-	-	-	-	3	20	21	-	24
69	-	-	-	-	-	-	-	1	-	-	-	1	8	11	-	11
72	-	-	-	-	-	-	-	-	-	-	-	-	3	6	-	8
75	-	-	-	-	-	-	-	-	-	-	-	-	4	3	-	6
78	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	3
81	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
84	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
90	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1
93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Total No. of Ages Read		1	45	107	88	40	13	5	-	-	1	300	1000	1000	1000	
Serial Numbers		No. of Age Samples 1														
X		Number of fish measured each month											1414	2643	6400	
		Mean length of fish (cm) each month											49.29	52.47	50.86	
		Mean weight of fish (kg) each month											-	-	1.156	
		Total weight caught or landed (tons) each month											309	86	248	
		Estimated number caught or landed (whole numbers) each month											-	-	214530	
		Range of depths (m) each month											252-336	256-406	336-732	
		Mesh size (mm)											110	110	110	

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	9	10	11	12	Total
Jan	2	226	273	259	145	61	28	-	-	7	1001
Feb	2	65	291	351	191	60	28	-	-	7	995
Mar	3	138	323	286	149	58	35	-	-	8	1000

TABLE 39

AGE/LENGTH TABLE - COD - 2J - 1967 (1st QUARTER)

GEAR		Otter Trawl (Research)															
CATCHES OR LANDINGS		Catches															
COUNTRY		USSR															
TONNAGE		1800 and 3500															
STRUCTURES USED IN AGE DETERMINATION		Otoliths															
Length Group (3cm)	Age	3	4	5	6	7	8	9	10	11	12	13	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
														Months Within Quarter			
											Jan	Feb	Mar				
21	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-		
24	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-		
27	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1		
30	2	3	-	-	-	-	-	-	-	-	-	5	10	15	35		
33	5	8	-	-	-	-	-	-	-	-	-	13	25	37	115		
36	6	29	3	-	-	-	-	-	-	-	-	38	51	60	155		
39	-	33	12	2	-	-	-	-	-	-	-	47	74	110	212		
42	-	17	46	13	-	-	-	-	-	-	-	76	107	131	171		
45	-	7	69	32	3	-	-	-	-	-	-	111	147	158	131		
48	-	-	19	68	28	2	-	-	-	-	-	117	139	149	68		
51	-	-	4	35	30	1	1	-	-	-	-	71	108	102	36		
54	-	-	-	12	27	9	3	-	1	-	-	52	100	92	29		
57	-	-	-	6	7	16	2	1	-	1	-	33	80	52	17		
60	-	-	-	1	3	9	4	-	-	-	-	17	68	48	12		
63	-	-	-	-	-	-	2	2	-	-	1	5	35	22	7		
66	-	-	-	-	-	1	1	1	-	-	-	3	23	10	4		
69	-	-	-	-	1	3	-	1	1	1	-	7	16	7	3		
72	-	-	-	-	-	1	-	1	-	-	-	2	7	3	2		
75	-	-	-	-	-	-	-	-	-	-	-	-	3	2	1		
78	-	-	-	-	-	-	-	-	-	-	-	-	2	1	1		
81	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-		
84	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-		
												1000	1000	1000			
Total No. of Ages Read		14	97	153	169	99	42	13	6	2	2	1	598				
Serial Numbers		No. of Age Samples															
		Number of fish measured each month											4437	59398	39334		
		Mean length of fish (cm) each month											50.20	47.88	42.41		
		Mean weight of fish (kg) each month											0.984	1.194	-		
		Total weight caught or landed (tons) each month											2612	1272	968		
		Estimated number caught or landed (whole numbers) each month											2664836	1065326	-		
		Range of depths (m) each month											223-227	267-296	188-395		
		Mesh size (mm)											110	110	110		

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	9	10	11	12	13	Total
Jan	22	154	208	240	166	114	50	30	4	5	7	1000
Feb	30	195	241	244	151	78	33	16	3	3	4	998
Mar	83	406	264	144	56	25	10	6	1	1	1	997

TABLE 39
(cont'd)

AGE/LENGTH TABLE - COD - 2J - 1967 (2nd QUARTER)

GEAR		Otter Trawl (Commercial)																									
CATCHES OR LANDINGS																						Catches					
COUNTRY																						Portugal					
TONNAGE																						1264					
STRUCTURES USED IN AGE DETERMINATION		Otoliths																									
Length Group (3 cm)	Age	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE						
																					Months Within Quarter						
																			Apr			May			Jun		
21		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-		
24		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
27		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
30		1	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	-	-		
33		1	9	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	9	11	-	-		
36		-	26	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	37	30	-	-		
39		-	20	33	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57	95	48	-	-		
42		-	9	72	23	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	105	154	120	-	-		
45		-	1	72	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	116	183	149	-	-		
48		-	-	41	80	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	134	178	152	-	-		
51		-	-	15	65	27	9	1	-	-	-	-	-	-	-	-	-	-	-	-	117	102	132	-	-		
54		-	-	3	30	21	15	1	2	1	-	-	-	-	-	-	-	-	-	-	73	51	86	-	-		
57		-	-	2	14	22	13	5	3	-	-	-	-	-	-	-	-	-	-	-	59	43	68	-	-		
60		-	-	-	7	22	23	4	6	3	-	-	-	-	-	-	-	-	-	-	65	46	61	-	-		
63		-	-	-	-	13	17	10	14	4	2	1	-	-	-	-	-	-	-	-	61	45	58	-	-		
66		-	-	-	1	3	7	12	9	3	-	-	1	-	-	-	-	-	-	-	36	18	37	-	-		
69		-	-	-	-	-	6	4	2	6	-	1	-	-	-	-	-	-	-	-	19	11	17	-	-		
72		-	-	-	-	-	1	-	3	3	3	-	-	1	1	-	-	-	-	-	12	8	11	-	-		
75		-	-	-	-	-	-	2	3	1	-	-	-	-	-	1	1	-	-	-	8	8	4	-	-		
78		-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-	-	-	-	3	2	4	-	-		
81		-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-	-	-	-	3	-	4	-	-		
84		-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	1	-	-		
87		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-		
90		-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	3	-	-	-		
Total No. of Ages Read		3	70	250	267	122	91	39	43	22	9	2	2	2	1	1	-	-	1	925	1001	1000	-				
Serial Numbers - Lengths only 5																					No. of Age Samples ¹						
X		Number of fish measured each month																			650	725	-				
		Mean length of fish (cm) each month																			49.4	51.6	-				
		Mean weight of fish (kg) each month																			-	-	-				
		Total weight caught or landed (tons) each month																			5829	12077	-				
		Estimated number caught or landed (whole numbers) each month																			-	-	-				
		Range of depths (m) each month																			200	180-400	-				
		Mesh size (mm)																			114	114	-				

AGE COMPOSITIONS OF LANDINGS (PER MILLE)																					
Month	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total		
Apr	1	87	357	308	100	64	26	29	14	8	1	0	1	1	1	-	-	1	999		
May	3	63	282	308	133	94	38	41	21	8	2	2	2	1	1	-	-	1	1000		
Jun	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

¹ No. of Age Samples with lengths: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11

TABLE 39
(cont'd)

AGE/LENGTH TABLE - COD - 2J - 1967 (2nd QUARTER)

GEAR		Pair Trawl (Commercial)																				
CATCHES OR LANDINGS		NK																				
COUNTRY		Spain																				
TONNAGE		NK																				
STRUCTURES USED IN AGE DETERMINATION		Otoliths																				
Length Group (3 cm)	Age	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
																			Months Within Quarter			
																			Apr	May	Jun	
30	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	12	6	
33	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	21	14	
36	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	31	23	
39	1	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	56	40	
42	-	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	81	71	
45	-	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	93	105	
48	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	122	122	
51	-	-	-	3	-	1	-	-	-	-	-	-	-	-	-	-	-	4	-	136	127	
54	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	3	-	130	136	
57	-	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	4	-	112	134	
60	-	-	-	1	-	1	1	-	-	1	-	-	-	-	-	-	-	4	-	80	103	
63	-	-	-	-	-	-	-	-	3	1	-	-	-	-	-	-	-	4	-	57	67	
66	-	-	-	-	1	-	3	-	-	-	-	-	-	-	-	-	-	4	-	37	24	
69	-	-	-	-	-	1	1	1	-	1	-	-	-	-	-	-	-	3	-	13	10	
72	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	2	-	8	6	
75	-	-	-	-	-	1	1	-	-	1	1	-	-	-	-	-	-	4	-	5	5	
78	-	-	-	-	-	1	-	1	-	-	-	1	-	-	-	-	-	3	-	5	3	
81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	2	
84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
Total No. of Ages Read		1	8	7	9	2	7	9	6	3	2	1	1	-	-	-	1	57				
Serial Numbers		No. of Age Samples																				
		Number of fish measured each month																-	2461	6086		
		Mean length of fish (cm) each month																-	52.27	53.12		
		Mean weight of fish (kg) each month																-	-	-		
		Total weight caught or landed (tons) each month																-	-	-		
		Estimated number caught or landed (whole numbers) each month																-	-	-		
		Range of depths (m) each month																-	-	-		
		Mesh size (mm)																-	-	-		

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Total
Apr	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	14	128	156	241	53	133	129	76	47	21	1	2	-	-	-	1	1002
Jun	10	105	151	236	51	142	130	88	54	27	1	1	-	-	-	1	997

TABLE 39
(cont'd)

AGE/LENGTH TABLE - 'OD - 2J - 1967 (3rd QUARTER)

GEAR		Pair Trawl (Commercial)												
CATCHES OR LANDINGS		NK												
COUNTRY		Spain												
TONNAGE		NK												
STRUCTURES USED IN AGE DETERMINATION		Otoliths												
Length Group (3 cm)	Age	3	4	5	6	7	8	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE					
									Months Within Quarter	Jul	Aug	Sep		
30	-	-	-	-	-	-	-	-	-	-	-	8		
33	-	-	-	-	-	-	-	-	-	-	-	13		
36	-	-	1	-	-	-	-	1	-	-	-	35		
39	2	-	-	-	1	-	-	3	-	-	-	48		
42	-	-	2	-	-	-	-	2	-	-	-	79		
45	-	-	1	-	1	-	-	2	-	-	-	98		
48	-	-	-	2	-	-	-	2	-	-	-	109		
51	-	-	-	-	-	2	-	2	-	-	-	133		
54	-	-	-	-	-	2	-	2	-	-	-	140		
57	-	-	-	2	-	-	-	2	-	-	-	123		
60	-	-	-	-	-	1	1	2	-	-	-	86		
63	-	-	-	-	1	1	-	2	-	-	-	56		
66	-	-	-	-	-	1	-	1	-	-	-	34		
69	-	-	-	-	1	-	-	1	-	-	-	21		
72	-	-	-	-	-	-	-	-	-	-	-	8		
75	-	-	-	-	-	-	-	-	-	-	-	7		
78	-	-	-	-	-	-	-	-	-	-	-	2		
- - - 1000														
Total No. of Ages Read		2	4	4	4	7	1	22	X					
Serial Numbers	No. of Age Samples													
X	Number of fish measured each month											-	-	2257
	Mean length of fish (cm) each month											-	-	52.72
	Mean weight of fish (kg) each month											-	-	-
	Total weight caught or landed (tons) each month											-	-	-
	Estimated number caught or landed (whole numbers) each month											-	-	-
	Range of depths (m) each month											-	-	-
Mesh size (mm)											-	-	-	

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	Total
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	33	167	241	119	393	45	998

TABLE 41

AGE/LENGTH TABLE - COD - 3L - 1967 (1st QUARTER)

GEAR		Otter Trawl (Commercial)													Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
CATCHES OR LANDINGS		Catches														Months Within Quarter		
COUNTRY		Portugal																
TONNAGE		1264																
STRUCTURES USED IN AGE DETERMINATION		Otoliths																
Length Group (3 cm)	Age	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Jan	Feb	Mar
	24	2	-	-	-	-	-	-	-	-	-	-	-	-	-			
27	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2
30	1	2	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	16
33	1	3	2	-	-	-	-	-	-	-	-	-	-	-	6	-	-	36
36	-	9	1	-	-	-	-	-	-	-	-	-	-	-	10	-	-	53
39	-	6	11	-	-	-	-	-	-	-	-	-	-	-	17	-	-	62
42	-	7	11	-	-	-	-	-	-	-	-	-	-	-	18	-	-	87
45	-	2	11	2	-	-	-	-	-	-	-	-	-	-	15	-	-	87
48	-	-	15	2	-	-	-	-	-	-	-	-	-	-	17	-	-	111
51	-	-	12	12	-	-	-	-	-	-	-	-	-	-	24	-	-	109
54	-	-	4	10	1	-	-	-	-	-	-	-	-	-	15	-	-	93
57	-	-	4	4	3	2	-	-	-	-	-	-	-	-	13	-	-	60
60	-	-	2	12	4	3	-	-	-	-	-	-	-	-	21	-	-	85
63	-	-	-	5	4	5	2	-	-	-	-	-	-	-	16	-	-	42
66	-	-	-	2	3	4	3	-	-	-	-	-	-	-	12	-	-	22
69	-	-	-	1	3	3	3	-	-	-	-	-	-	-	10	-	-	22
72	-	-	-	-	2	4	6	1	-	-	-	-	-	-	13	-	-	26
75	-	-	-	-	-	2	2	2	-	-	-	-	-	-	6	-	-	11
78	-	-	-	-	-	1	6	-	1	-	1	-	-	-	9	-	-	22
81	-	-	-	-	-	-	5	1	-	-	3	-	-	-	9	-	-	26
84	-	-	-	-	-	1	3	-	1	-	-	-	-	-	5	-	-	9
87	-	-	-	-	-	1	1	-	-	-	-	-	1	-	3	-	-	6
90	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	4
93	-	-	-	-	-	-	-	1	-	-	-	-	-	-	2	-	-	4
96	-	-	-	-	-	-	-	-	1	-	-	-	-	1	2	-	-	4
99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
120	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	2
Total No. of Ages Read		5	29	73	50	20	26	32	5	2	-	4	-	3	1	250		
Serial Numbers	Lengths only	No. of Age Samples with lengths ¹																
		Number of fish measured each month													-	-	550	
		Mean length of fish (cm) each month													-	-	53.3	
		Mean weight of fish (kg) each month													-	-	-	
		Total weight caught or landed (tons) each month													-	-	4599	
		Estimated number caught or landed (whole numbers) each month													-	-	-	
		Range of depths (m) each month													-	-	150	
		Mesh size (mm)													-	-	114	

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Total
Jan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mar	17	144	378	227	63	66	72	11	4	-	11	-	6	2	1001

1 No. of Age Samples with Lengths 4, 5, 6, 7

TABLE 41
(cont'd)

AGE/LENGTH TABLE - COD - 3L - 1967 (1st QUARTER)

GEAR		Pair Trawl (Commercial)												
CATCHES OR LANDINGS		NK												
COUNTRY		Spain												
TONNAGE		NK												
STRUCTURES USED IN AGE DETERMINATION		Otoliths												
Length Group (3 cm)	Age	4	5	6	7	8	9	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE					
									Months Within Quarter					
									Jan	Feb	Mar			
30	-	-	-	-	-	-	-	-	-	-	-	1		
33	-	-	-	-	-	-	-	-	-	-	-	8		
36	-	-	-	-	-	-	-	-	-	-	-	14		
39	-	-	-	-	-	-	-	-	-	-	-	30		
42	1	1	-	-	-	-	-	2	-	-	-	34		
45	1	1	-	-	-	-	-	2	-	-	-	49		
48	-	2	-	-	-	-	-	2	-	-	-	82		
51	-	1	-	-	-	-	-	1	-	-	-	121		
54	-	1	1	-	-	-	-	2	-	-	-	153		
57	-	1	1	-	-	-	-	2	-	-	-	128		
60	-	1	1	-	-	-	-	2	-	-	-	99		
63	-	-	1	-	-	-	-	2	-	-	-	78		
66	-	-	-	-	1	-	-	1	-	-	-	41		
69	-	-	-	-	1	1	-	2	-	-	-	23		
72	-	-	-	-	-	2	-	2	-	-	-	22		
75	-	-	-	-	-	2	-	2	-	-	-	22		
78	-	-	-	-	-	-	-	2	-	-	-	18		
81	-	-	-	-	-	-	-	2	-	-	-	20		
84	-	-	-	-	-	-	-	1	-	-	-	12		
87	-	-	-	-	-	-	-	-	-	-	-	8		
90	-	-	-	-	-	-	-	-	-	-	-	7		
93	-	-	-	-	-	-	-	-	-	-	-	8		
96	-	-	-	-	-	-	-	-	-	-	-	12		
99	-	-	-	-	-	-	-	-	-	-	-	9		
102	-	-	-	-	-	-	-	-	-	-	-	1		
105	-	-	-	-	-	-	-	-	-	-	-	-		
108	-	-	-	-	-	-	-	-	-	-	-	-		
111	-	-	-	-	-	-	-	-	-	-	-	0		
Total No. of Ages Read		2	8	4	2	5	4	25	1000					
Serial Numbers		No. of Age Samples												
X		Number of fish measured each month										-	-	1993
		Mean length of fish (cm) each month										-	-	58.84
		Mean weight of fish (kg) each month										-	-	-
		Total weight caught or landed (tons) each month										-	-	-
		Estimated number caught or landed (whole numbers) each month										-	-	-
		Range of depths (m) each month										-	-	-
		Mesh size (mm)										-	-	-

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	4	5	6	7	8	9	Total
Jan	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-
Mar	47	488	257	58	63	87	1000

TABLE 41
(cont'd)

AGE/LENGTH TABLE - COD - 3L - 1967 (2nd QUARTER)

GEAR		Otter Trawl (Commercial)																	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
CATCHES OR LANDINGS		Catches																		Months Within Quarter		
COUNTRY		Portugal																				
TONNAGE		1264																				
STRUCTURES USED IN AGE DETERMINATION		Otoliths																				
Length Group (3 cm)	Age	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	Apr	May	Jun	
		21	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	-	3	
30	1	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	1	4	
33	2	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	17	11	14	
36	4	35	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	30	20	26	
39	3	33	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	76	27	45	
42	-	25	54	3	-	-	-	-	-	-	-	-	-	-	-	-	-	82	88	32	52	
45	-	17	94	22	1	-	-	-	-	-	-	-	-	-	-	-	-	134	131	91	74	
48	-	5	100	45	1	-	-	-	-	-	-	-	-	-	-	-	-	151	143	114	100	
51	-	-	69	75	5	2	-	-	-	-	-	-	-	-	-	-	-	151	101	125	108	
54	-	-	33	90	17	1	-	-	-	-	-	-	-	-	-	-	-	141	105	149	102	
57	-	-	8	59	27	2	-	-	-	-	-	-	-	-	-	-	-	96	74	99	101	
60	-	-	4	49	30	6	-	-	-	-	-	-	-	-	-	-	-	89	65	81	89	
63	-	-	-	24	34	18	3	1	-	-	-	-	-	-	-	-	-	80	46	61	73	
66	-	-	-	8	25	19	4	-	-	-	-	-	-	-	-	-	-	56	21	47	51	
69	-	-	-	7	15	15	8	1	-	-	-	-	-	-	-	-	-	46	19	37	37	
72	-	-	-	1	10	8	11	-	1	-	-	-	-	-	-	-	-	31	17	20	31	
75	-	-	-	-	8	4	8	4	8	-	2	-	-	-	-	-	-	22	25	15	17	
78	-	-	-	-	2	2	8	4	1	-	-	-	-	-	-	-	-	17	13	14	15	
81	-	-	-	-	2	7	3	2	-	1	-	1	-	1	-	-	-	16	4	12	12	
84	-	-	-	-	1	2	2	1	1	-	1	-	-	-	-	-	-	7	2	9	11	
87	-	-	-	-	-	1	2	1	2	-	2	1	-	-	-	-	-	6	4	4	5	
90	-	-	-	-	-	1	1	-	1	-	1	-	-	-	-	-	-	3	2	6	5	
93	-	-	-	-	-	-	1	-	1	-	1	1	-	-	-	-	-	3	2	4	5	
96	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	4	5	
99	-	-	-	-	-	-	1	2	-	1	-	-	-	-	-	-	-	4	-	4	3	
102	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	2	-	2	3	
105	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	2	2	2	5	
108	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	2	4	2	
111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
123	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
129	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	
132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
Total No. of Ages Read		14	142	386	383	167	84	50	26	5	10	4	2	1	-	-	-	1	1275			
Serial Numbers ¹		No. of Age Samples ²																				
	Number of fish measured each month																		475	1130	1550	
	Mean length of fish (cm) each month																		52.7	57.4	57.2	
	Mean weight of fish (kg) each month																		-	-	-	
	Total weight caught or landed (tons) each month																		9667	9550	14113	
	Estimated number caught or landed (whole numbers) each month																		-	-	-	
	Range of depths (m) each month																		150-200	150-300	150-300	
	Mesh size (mm)																		114	114	114	

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	Total
Apr	13	138	354	286	103	48	27	17	2	6	4	1	0	-	-	-	-	999
May	4	68	276	344	146	67	40	26	4	10	7	2	1	-	-	-	1	996
Jun	11	92	257	309	153	75	46	28	5	13	5	4	1	-	-	-	-	999

- ¹ Serial numbers-lengths only: 11,13,17,19,22,23,26,27,29,30,32,34,38,40
² No. of Age Samples with lengths: 10,12,15,16,18,21,24,25,28,31,33,37,39

TABLE 41
(cont'd)

AGE/LENGTH TABLE - COD - 3L - 1967 (2nd QUARTER)

GEAR		Pair Trawl (Commercial)												
CATCHES OR LANDINGS		NK												
COUNTRY		Spain												
TONNAGE		NK												
STRUCTURES USED IN AGE DETERMINATION		Otoliths												
Length Group (3 cm)	Age	2	3	4	5	6	7	8	9	10	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
												Months Within Quarter		
												Apr	May	Jun
30		-	-	-	-	-	-	-	-	-	-	3	-	4
33		-	-	-	-	-	-	-	-	-	-	15	-	11
36		1	-	1	-	-	-	-	-	-	2	9	-	17
39		-	-	1	-	-	-	-	-	-	1	28	-	37
42		-	-	2	1	-	-	-	-	-	3	54	-	62
45		-	-	1	3	-	-	-	-	-	4	71	-	80
48		-	-	2	2	-	-	-	-	-	4	75	-	95
51		-	-	1	3	-	-	-	-	-	4	149	-	119
54		-	-	1	1	1	1	-	-	-	4	141	-	126
57		-	-	1	1	2	-	-	-	-	4	192	-	125
60		-	-	-	2	1	1	-	-	-	4	130	-	111
63		-	-	-	2	1	1	-	-	-	4	81	-	93
66		-	-	-	1	-	2	1	-	-	4	16	-	51
69		-	-	-	-	1	1	-	-	-	2	13	-	35
72		-	-	-	-	-	-	1	1	-	2	7	-	15
75		-	-	-	-	-	1	1	-	-	2	6	-	11
78		-	-	-	-	-	-	1	-	1	2	4	-	5
81		-	-	-	-	-	-	-	1	-	1	1	-	2
84		-	-	-	-	-	1	-	-	-	1	1	-	1
87		-	-	-	-	-	-	-	-	-	-	2	-	0
90		-	-	-	-	-	-	-	-	-	-	-	-	-
93		-	-	-	-	-	-	-	-	-	-	-	-	-
96		-	-	-	-	-	-	-	-	-	-	2	-	-
99		-	-	-	-	-	-	-	-	-	-	-	-	0
102		-	-	-	-	-	-	-	-	-	-	-	-	0
Total No. of Ages Read		1	-	10	16	6	8	4	2	1	48	1000 - 1000		
Serial Numbers		No. of Age Samples												
X		Number of fish measured each month										897	-	5041
		Mean length of fish (cm) each month										54.9	-	55.14
		Mean weight of fish (kg) each month										-	-	-
		Total weight caught or landed (tons) each month										-	-	-
		Estimated number caught or landed (whole numbers) each month										-	-	-
		Range of depths (m) each month										-	-	-
		Mesh size (mm)										-	-	-

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	2	3	4	5	6	7	8	9	10	Total
Apr	5	-	249	422	195	109	13	5	2	1000
May	-	-	-	-	-	-	-	-	-	-
Jun	8	-	251	401	166	134	28	10	2	1000

TABLE 41
(cont'd)

AGE/LENGTH TABLE - COD - 3L - 1967 (3rd QUARTER)

GEAR		Otter Trawl (Commercial)													Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
CATCHES OR LANDINGS		Catches														Months Within Quarter			
COUNTRY		Portugal																	
TONNAGE		1264																	
STRUCTURES USED IN AGE DETERMINATION		Otoliths																	
Length Group (3 cm)	Age	3	4	5	6	7	8	9	10	11	12	13	14	15	Total No. of Ages Read	PER MILLE			
		3	4	5	6	7	8	9	10	11	12	13	14	15		Jul	Aug	Sep	
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	
27	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	
30	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	4	6	-	
33	6	5	-	-	-	-	-	-	-	-	-	-	-	-	-	11	21	-	
36	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	14	43	-	
39	3	19	3	-	-	-	-	-	-	-	-	-	-	-	-	25	59	-	
42	-	11	12	1	-	-	-	-	-	-	-	-	-	-	-	24	54	-	
45	-	2	33	2	-	-	-	-	-	-	-	-	-	-	-	37	92	-	
48	-	2	36	7	-	-	-	-	-	-	-	-	-	-	-	45	101	-	
51	-	3	40	27	1	-	-	-	-	-	-	-	-	-	-	71	135	-	
54	-	-	23	38	2	-	-	1	-	-	-	-	-	-	-	64	120	-	
57	-	-	15	41	8	3	-	-	-	-	-	-	-	-	-	67	123	-	
60	-	-	-	13	8	3	-	-	-	-	-	-	-	-	-	24	68	-	
63	-	-	-	10	13	7	2	-	-	-	-	-	-	-	-	32	66	-	
66	-	-	-	6	6	4	1	-	-	-	-	-	-	-	-	17	37	-	
69	-	-	-	2	1	1	2	3	-	-	-	-	-	-	-	9	17	-	
72	-	-	-	-	1	3	2	2	-	-	-	-	-	-	-	8	17	-	
75	-	-	-	-	-	4	1	2	-	-	-	-	-	-	-	7	15	-	
78	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	2	7	-	
81	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	2	3	-	
84	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	1	-	
87	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	-	
90	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	2	2	-	
93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
96	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	2	-	
99	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	3	2	-	
102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
123	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
Total No. of Ages Read																472	1000		
Serial Numbers Lengths only 41,42,44,45,49,51,52																No. of Age Samples ¹			
Number of fish measured each month																1450	-	-	
Mean length of fish (cm) each month																53.8	-	-	
Mean weight of fish (kg) each month																12202	-	-	
Total weight caught or landed (tons) each month																-	-	-	
Estimated number caught or landed (whole numbers) each month																-	-	-	
Range of depths (m) each month																200-300	-	-	
Mesh size (mm)																114	-	-	

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	9	10	11	12	13	14	15	Total
Jul	32	131	344	295	87	58	23	19	3	-	-	1	1	994
Aug	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-	-	-	-

¹ No. of Age Samples With Lengths 43, 46, 47, 48, 50

TABLE 41
(cont'd)

AGE/LENGTH TABLE - COD - 3L - 1967 (3rd QUARTER)

GEAR		Pair Trawl (Commercial)												Total No. of Ages Read		LENGTH COMPOSITION PER MILLE		
CATCHES OR LANDINGS																Months Within Quarter		
COUNTRY		NK														Jul Aug Sep		
TONNAGE		Spain																
STRUCTURES USED IN AGE DETERMINATION		Otoliths																
Length Group (3 cm)	Age	3	4	5	6	7	8	9	10	11	12	13	14	Total No. of Ages Read	PER MILLE			
															Jul	Aug	Sep	
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75	11	4	
33	1	-	-	-	-	-	-	-	-	-	-	-	-	1	77	20	10	
36	1	2	-	-	-	-	-	-	-	-	-	-	-	3	111	46	23	
39	1	3	-	-	-	-	-	-	-	-	-	-	-	4	102	70	46	
42	-	5	1	-	-	-	-	-	-	-	-	-	-	6	99	112	70	
45	-	1	5	-	-	-	-	-	-	-	-	-	-	6	111	124	103	
48	-	1	5	-	-	-	-	-	-	-	-	-	-	6	93	133	118	
51	-	2	1	3	-	-	-	-	-	-	-	-	-	6	73	142	135	
54	-	-	4	2	-	-	-	-	-	-	-	-	-	6	85	118	139	
57	-	-	1	3	2	-	-	-	-	-	-	-	-	6	74	85	120	
60	-	-	3	2	1	-	-	-	-	-	-	-	-	6	43	58	90	
63	-	-	-	4	-	1	1	-	-	-	-	-	-	6	32	32	60	
66	-	-	1	-	-	3	1	-	-	-	-	-	-	5	13	26	41	
69	-	-	-	3	-	1	-	1	-	-	-	-	-	5	6	11	24	
72	-	-	-	-	2	-	1	-	-	-	-	-	-	3	4	5	9	
75	-	-	-	-	1	-	2	-	-	-	-	-	-	3	1	3	6	
78	-	-	-	-	-	1	-	1	-	-	-	-	-	2	1	0	2	
81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
90	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	
93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	
96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	
99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	
105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	
120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
123	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
127-130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	
Total No. of Ages Read		3	14	21	17	6	6	5	2	-	-	-	1	75		1000	1000	1000
Serial Numbers		No. of Age Samples																
X	Number of fish measured each month													2262	2556	5672		
	Mean length of fish (cm) each month													46.20	50.52	53.36		
	Mean weight of fish (kg) each month													-	-	-		
	Total weight caught or landed (tons) each month													-	-	-		
	Estimated number caught or landed (whole numbers) each month													-	-	-		
	Range of depths (m) each month													-	-	-		
Mesh size (mm)													-	-	-			

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	9	10	11	12	13	14	Total
Jul	150	315	316	152	38	16	11	2	-	-	-	0	1000
Aug	54	271	390	203	43	23	14	2	-	-	-	0	1000
Sep	29	191	386	259	63	41	25	6	-	-	-	0	1000

TABLE 42

LENGTH FREQUENCIES - HADDOCK - 30 - 1967

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	Otter Trawl		
	(Commercial)		(Research)
CATCHES/LANDINGS	Landings After Discard		NK
MONTH	May	March	April
COUNTRY	Canada (Newfoundland)		France
TONNAGE	151-500		850-1500
14	-	-	3
16	-	-	6
18	-	-	27
20	-	7	18
22	-	16	12
24	-	11	9
26	-	3	9
28	-	4	3
30	-	4	36
32	3	11	60
34	16	34	66
36	55	109	75
38	132	113	128
40	206	175	218
42	158	136	155
44	37	48	63
46	37	21	24
48	45	15	9
50	58	34	9
52	69	30	15
54	50	34	3
56	69	48	15
58	50	30	9
60	16	15	3
62	-	18	9
64	-	21	9
66	-	22	-
68	-	13	9
70	-	15	-
72	-	4	-
74	-	7	-
76	-	-	-
78	-	2	-
Total ‰	1001	1000	999
Serial Numbers	-	-	-
Number of Samples	1	5	3
Number of Fish Measured	379	201	335
Mean Length (cm)	45.365	-	-
Mean Weight (kg)	.930	-	-
Total Weight Landed (tons)	31.5	-	-
Estimated Number Landed	33871	-	-
Mesh(mm) or Hook(no.) Size	-	110-140	110-140
Range of Depths (fm)	51-75	55-200	55-120

GEAR	Otter Trawl		
	(Commercial)		(Research)
CATCHES/LANDINGS	Landings After Discard		NK
MONTH	February	November	April
COUNTRY	Canada (Newfoundland)		France
TONNAGE	151-500		850-1500
8	-	-	1
10	-	-	-
12	-	-	-
14	-	-	10
16	-	-	141
18	-	-	192
20	-	-	117
22	-	-	28
24	-	-	15
26	-	-	23
28	5	-	31
30	-	-	25
32	-	-	26
34	19	-	33
36	67	-	40
38	202	9	50
40	269	54	39
42	197	121	42
44	72	161	29
46	14	165	17
48	24	143	9
50	14	89	12
52	10	40	17
54	10	31	20
56	29	49	17
58	10	40	5
60	5	36	13
62	14	18	13
64	5	9	6
66	10	13	4
68	10	9	-
70	-	4	11
72	-	4	5
74	10	4	5
76	5	-	4
Total %/oo	1001	999	1000
Serial Numbers	-	-	-
Number of Samples	1	1	6
Number of Fish Measured	208	224	1110
Mean Length (cm)	43.192	49.169	-
Mean Weight (kg)	.968	1.179	-
Total Weight Landed (tons)	158.3	52.7	-
Estimated Number Landed	163533	44699	-
Mesh(mm) or Hook(no.) Size	-	-	110-140
Range of Depths (fm)	-	76-100	28-120

TABLE 44 LENGTH FREQUENCIES - HADDOCK - 4R - 1967

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	Otter Trawl
CATCHES/LANDINGS	(Research)
MONTH	NK
COUNTRY	April
TONNAGE	France
	850-1500
14	30
16	125
18	70
20	15
22	55
24	100
26	160
28	125
30	55
32	45
34	15
36	35
38	10
40	5
42	5
44	5
46	20
48	5
50	15
52	10
54	20
56	15
58	20
60	10
62	15
64	-
66	5
68	5
Total ‰	1000
Serial Numbers	-
Number of Samples	1
Number of Fish Measured	200
Mean Length (cm)	-
Mean Weight (kg)	-
Total Weight Landed (tons)	-
Estimated Number Landed	-
Mesh(mm) or Hook(no.) Size	110-140
Range of Depths (fm)	55-120

GEAR	Trap Net (Commercial)
CATCHES/LANDINGS	Landings
MONTH	July
COUNTRY	Canada (Maritimes)
TONNAGE	NK
38	25
40	111
42	167
44	217
46	172
48	71
50	116
52	25
54	25
56	25
58	25
60	5
62	-
64	-
66	5
68	5
70	5
Total %	999
Serial Numbers	83
Number of Samples	1
Number of Fish Measured	198
Mean Length (cm)	46.4
Mean Weight (kg)	1.15
Total Weight Landed (tons)	22
Estimated Number Landed	19130
Mesh(mm) or Hook(no.) Size	-
Range of Depths (fm)	-

TABLE 46

LENGTH FREQUENCIES - HADDOCK - 4Vs - 1967

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	Otter Trawl
CATCHES/LANDINGS	(Research)
MONTH	NK
COUNTRY	April
TONNAGE	France
	850-1500
16	1
18	17
20	42
22	24
24	3
26	9
28	21
30	63
32	77
34	56
36	35
38	32
40	46
42	45
44	46
46	63
48	77
50	84
52	66
54	59
56	38
58	25
60	13
62	11
64	10
66	13
68	10
70	6
72	7
Total ‰	999
Serial Numbers	-
Number of Samples	5
Number of Fish Measured	713
Mean Length (cm)	-
Mean Weight (kg)	-
Total Weight Landed (tons)	-
Estimated Number Landed	-
Mesh(mm) or Hook(no.) Size	110-140
Range of Depths (fm)	55-120

GEAR	Otter Trawl				
	(Commercial)				
CATCHES/LANDINGS	Landings				
MONTH	March	April	September	October	December
COUNTRY	Canada (Maritimes)				
TONNAGE	151-500				
26	1	-	-	-	-
28	6	-	-	-	-
30	30	-	-	-	-
32	30	-	-	-	-
34	53	-	8	7	22
36	46	-	16	36	43
38	49	18	37	75	76
40	60	87	49	86	120
42	78	156	110	132	92
44	83	124	85	96	103
46	100	101	105	166	87
48	90	95	138	123	69
50	84	108	126	97	61
52	61	95	94	56	91
54	52	60	59	46	58
56	43	47	55	30	47
58	38	28	34	22	41
60	24	25	24	10	32
62	21	19	21	7	12
64	18	16	12	3	17
66	14	12	15	3	12
68	7	6	3	2	12
70	7	3	6	-	-
72	3	-	3	2	6
74	1	-	-	-	-
76	1	-	-	-	-
Total %/oo	1000	1000	1000	999	1001
Serial Numbers	67-78	79	80	81-82	198
Number of Samples	12	1	1	2	1
Number of Fish Measured	3094	259	283	441	234
Mean Length (cm)	47.1	48.3	49.3	46.6	47.9
Mean Weight (kg)	1.30	1.17	1.24	1.01	1.22
Total Weight Landed (tons)	3218	424	89	216	120
Estimated Number Landed	2475385	362393	71774	213861	98361
Mesh(mm) or Hook(no.) Size	4.4-5 ¹	4.6 ¹	5 ¹	4.6-4.7 ¹	4.6 ¹
Range of Depths (fm)	50-90	35-105	50-75	60-90	25-48

1 inches

TABLE 48

LENGTH FREQUENCIES - HADDOCK - 4X (NORTH)¹ - 1967

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	Otter Trawl					
	(Commercial)					
CATCHES/LANDINGS	Landings					
MONTH	April	May	June	June	July	August
COUNTRY	Canada (Maritimes)					
TONNAGE	26-50	51-150		26-50		
26	-	-	1	-	-	-
28	-	-	-	-	-	-
30	-	12	1	-	4	-
32	4	33	24	-	11	4
34	12	62	63	49	32	53
36	21	107	86	92	95	102
38	87	130	146	92	134	171
40	169	217	215	114	156	249
42	262	160	213	147	233	192
44	217	128	124	138	106	74
46	134	65	67	143	113	61
48	71	42	33	85	42	37
50	23	18	11	45	21	8
52	-	18	6	31	11	16
54	-	-	2	16	7	12
56	-	3	1	2	-	4
58	-	-	2	24	-	8
60	-	-	1	9	-	4
62	-	3	-	7	18	-
64	-	-	-	-	11	-
66	-	-	2	2	-	4
68	-	-	-	2	7	-
70	-	-	-	-	-	-
72	-	3	1	-	-	-
74	-	-	1	-	-	-
76	-	-	-	-	-	-
78	-	-	-	-	-	-
80	-	-	-	-	-	-
82	-	-	-	-	-	-
84	-	-	-	2	-	-
Total ‰	1000	1001	1000	1000	1001	999
Serial Numbers	162	3	667	465	8	9
Number of Samples	2	1	2	2	1	1
Number of Fish Measured	562	337	671	448	283	245
Mean Length (cm)	43.1	41.2	41.3	43.2	42.7	41.6
Mean Weight (kg)	0.80	0.81	0.54	1.13	0.96	1.13
Total Weight Landed (tons)	85	268	747	897	1254	1004
Estimated Number Landed	106250	330864	1383333	793805	1306250	888496
Mesh(mm) or Hook(no.) Size	4.5 ²	4.2 ²	4.3 ²	4.3 ²	4.5 ²	4.5 ²
Range of Depths (fm)	30-48	75	45-60	30	-	-

¹ North of latitude 44° 00'² inches

TABLE 48
(cont'd)LENGTH FREQUENCIES - HADDOCK - 4X (NORTH)¹ - 1967

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	Otter Trawl					
	(Commercial)					(Exploratory)
CATCHES/LANDINGS	Landings					Catches
MONTH	August	September	October	November	December	July
COUNTRY	Canada (Maritimes)					
TONNAGE	51-150		26-50		51-150	26-50
32	6	-	22	-	-	-
34	28	-	72	-	-	-
36	68	11	149	-	-	16
38	127	12	152	9	3	13
40	189	44	199	3	22	95
42	167	77	159	50	29	131
44	193	118	94	96	89	216
46	131	172	72	175	141	225
48	53	215	58	243	157	140
50	17	143	7	243	160	72
52	11	88	4	91	131	56
54	4	46	4	55	70	20
56	-	28	4	15	70	3
58	4	16	4	6	35	7
60	-	9	-	6	13	-
62	2	5	-	-	22	3
64	-	5	-	3	19	-
66	-	4	-	6	10	3
68	-	4	-	-	10	-
70	-	2	-	-	6	-
72	-	-	-	-	10	-
74	-	-	-	-	3	-
76	-	2	-	-	-	-
Total ‰	1000	1001	1000	1001	1000	1000
Serial Numbers	13614	15-17	10	11612	18619	66
Number of Samples	2	3	1	2	2	1
Number of Fish Measured	472	568	276	342	313	306
Mean Length (cm)	42.6	48.4	40.9	48.9	51.3	46.0
Mean Weight (kg)	0.80	1.17	0.98	1.35	1.45	-
Total Weight Landed (tons)	1205	911	395	99	127	-
Estimated Number Landed	1506250	778632	403061	73333	87586	-
Mesh(mm) or Hook(no.) Size	4.4-4.5 ²	4.5 ²	4.5 ²	4.5 ²	4.5 ²	lined
Range of Depths (fm)	50-60	15-70	20	30	50-115	30-40

¹ North of latitude 44° 00'² inches

TABLE 49

LENGTH FREQUENCIES - HADDOCK - 4X (SOUTH)¹ - 1967

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	Otter Trawl (Commercial)					
	Landings					
CATCHES/LANDINGS						
MONTH	January	February	March	April	April	May
COUNTRY	Canada (Maritimes)					
TONNAGE	151-500		51-150		151-500	
26	-	-	-	-	-	2
28	-	-	-	-	-	7
30	-	7	-	6	-	9
32	4	16	1	27	-	32
34	24	45	6	56	15	85
36	54	68	14	83	46	118
38	104	94	30	105	96	113
40	137	114	62	120	173	121
42	170	121	66	111	262	88
44	136	66	116	112	188	90
46	91	92	166	82	127	73
48	82	73	159	76	73	69
50	55	83	135	62	12	60
52	40	45	79	47	4	35
54	41	54	77	36	4	37
56	22	54	33	34	-	25
58	13	25	21	16	-	14
60	12	14	17	12	-	10
62	7	12	10	7	-	6
64	5	10	3	4	-	3
66	2	4	4	1	-	2
68	1	2	1	2	-	1
70	-	2	-	-	-	-
Total ‰	1000	1001	1000	999	1000	1000
Serial Numbers	20-24	25	26-29	31-35	30	36-39
Number of Samples	4	1	4	5	1	4
Number of Fish Measured	1908	398	1280	1762	260	1318
Mean Length (cm)	44.8	45.7	49.6	44.2	42.9	43.0
Mean Weight (kg)	1.14	1.22	1.35	1.01	0.71	0.86
Total Weight Landed (tons)	453	856	885	2552	612	1444
Estimated Number Landed	397368	701639	655556	2526733	861972	1679070
Mesh(mm) or Hook(no.) Size	4.4 ²	4.4 ²	4.4 ²	4.4-4.5 ²	4.5 ²	4.4-4.6 ²
Range of Depths (fm)	40-60	50-98	50-70	50-90	50-60	40-90

¹ South of latitude 44° 00'² inches

TABLE 49
(cont'd)LENGTH FREQUENCIES - HADDOCK - 4X (SOUTH)¹ - 1967

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	Otter Trawl					
	(Commercial)					
CATCHES/LANDINGS	Landings					
MONTH	June	July	August	October	November	December
COUNTRY	Canada (Maritimes)					
TONNAGE	151-500					
30	-	-	1	1	-	1
32	3	5	12	7	-	3
34	9	57	37	47	1	14
36	22	130	85	104	17	57
38	54	241	127	137	35	93
40	114	199	162	171	108	120
42	160	139	188	139	133	128
44	170	78	149	114	129	110
46	143	50	96	75	130	104
48	95	25	43	50	101	121
50	94	24	31	39	71	86
52	63	21	19	26	67	74
54	33	9	13	29	58	32
56	15	10	11	19	54	22
58	8	4	9	17	24	14
60	10	4	7	8	19	9
62	5	3	4	7	14	6
64	2	-	3	6	14	3
66	-	2	1	3	18	-
68	-	-	1	-	5	1
70	-	-	1	1	2	1
72	-	-	-	-	-	-
74	-	-	-	-	-	1
76	-	-	-	-	1	-
Total ‰	1000	1001	1000	1000	1001	1000
Serial Numbers	40&41	42	43-47	48-50	152-156	53-55
Number of Samples	2	1	5	3	5	3
Number of Fish Measured	441	437	1838	1006	1451	1026
Mean Length (cm)	45.7	41.2	42.9	43.3	48.1	45.5
Mean Weight (kg)	1.05	0.81	0.83	0.97	1.27	1.10
Total Weight Landed (tons)	817	604	667	526	405	618
Estimated Number Landed	778095	745679	803614	542268	318898	561818
Mesh(mm) or Hook(no.) Size	4.5-4.6 ²	4.5 ²	4.4-4.5 ²	4.4-4.5 ²	4.5 ²	4.5 ²
Range of Depths (fm)	40-75	50-60	65-110	55-100	55-110	60-110

¹ South of latitude 44° 00'² inches

TABLE 50 LENGTH FREQUENCIES - HADDOCK - 5Y - 1967

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	Otter Trawl	
	(Commercial)	
CATCHES/LANDINGS	Landings	
MONTH	April	November
COUNTRY	Canada (Maritimes)	
TONNAGE	51-150	
26	5	-
28	-	-
30	-	-
32	-	-
34	14	-
36	48	11
38	29	17
40	144	46
42	149	80
44	197	97
46	207	183
48	125	246
50	53	143
52	14	74
54	5	51
56	10	29
58	-	11
60	-	6
62	-	-
64	-	6
Total ‰	1000	1000
Serial Numbers	56	57
Number of Samples	1	1
Number of Fish Measured	208	175
Mean Length (cm)	44.4	48.0
Mean Weight (kg)	1.09	1.30
Total Weight Landed (tons)	63	93
Estimated Number Landed	57798	71538
Mesh(mm) or Hook(no.) Size	4.5 ¹	4.5 ¹
Range of Depths (fm)	40-70	40-45

¹ inches

GEAR	Otter Trawl		
	(Commercial)		
CATCHES/LANDINGS	Catches	Landings	
MONTH	September	February	March
COUNTRY	Poland	Canada (Maritimes)	
TONNAGE	2400	151-500	
26	1	-	-
28	3	-	-
30	12	-	-
32	73	2	-
34	176	3	-
36	229	11	6
38	133	42	26
40	32	82	83
42	17	111	217
44	29	129	220
46	38	143	221
48	37	126	138
50	58	125	57
52	49	83	16
54	53	52	7
56	29	32	4
58	15	22	3
60	8	12	1
62	4	12	1
64	-	7	-
66	3	4	-
68	1	1	-
70	-	1	-
Total ‰	1000	1000	1000
Serial Numbers	-	58-64	65
Number of Samples	3	7	1
Number of Fish Measured	1028	2102	320
Mean Length (cm)	41.18	47.7	45.2
Mean Weight (kg)	-	1.07	1.02
Total Weight Landed (tons)	-	1523	1621
Estimated Number Landed	-	1423364	1589216
Mesh(mm) or Hook(no.) Size	4.5 ¹	4.4-4.7 ¹	4.5 ¹
Range of Depths (fm)	90-130	40-130	-

1 inches

TABLE 52

AGE/LENGTH TABLE - HADDOCK - 5Y - 1967 (1st QUARTER)

GEAR		Otter Trawl (Commercial)										
CATCHES OR LANDINGS		Landings										
COUNTRY		United States										
TONNAGE		0-310										
STRUCTURES USED IN AGE DETERMINATION		Scales										
Length Group (2 cm)	Age	3	4	5	6	7	8	9	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
										Jan	Feb	Mar
38		1	2	-	-	-	-	-	3	-	-	24
40		-	5	-	-	-	-	-	5	-	-	73
42		-	5	1	-	-	-	-	6	-	-	184
44		-	3	1	-	-	-	-	4	-	-	132
46		-	8	2	-	-	-	-	10	-	-	184
48		-	4	-	-	-	-	-	4	-	-	84
50		-	3	1	1	-	-	-	5	-	-	63
52		-	4	4	-	-	-	-	9	-	-	44
54		-	2	2	-	1	1	-	6	-	-	37
56		-	-	2	1	-	4	-	7	-	-	30
58		-	-	1	1	1	-	-	3	-	-	23
60		-	-	1	3	1	3	1	9	-	-	20
62		-	-	-	2	-	-	1	3	-	-	34
64		-	-	-	-	3	4	-	7	-	-	21
66		-	-	-	-	1	-	1	2	-	-	26
68		-	-	-	-	1	2	-	3	-	-	13
70		-	-	-	-	-	2	-	2	-	-	6
72		-	-	-	-	-	1	-	1	-	-	3
74		-	-	-	-	-	-	-	-	-	-	1
Total No. of Ages Read		1	36	15	8	8	18	3	89	1000		
Serial Numbers		No. of Age Samples 5										
X		Number of fish measured each month								-	-	314
		Mean length of fish (cm) each month								-	-	48.68
		Mean weight of fish (kg) each month								-	-	1.18
		Total weight caught or landed (tons) each month								-	-	204
		Estimated number caught or landed (whole numbers) each month								-	-	172600
		Range of depths (m) each month								-	-	101-183
Mesh size (mm)										-	-	114

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	9	Total
Jan	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-
Mar	8	641	164	54	43	64	26	1000

TABLE 52
(cont'd)

AGE/LENGTH TABLE - HADDOCK - 5Y - 1967 (2nd QUARTER)

GEAR		Otter Trawl (Commercial)													
CATCHES OR LANDINGS		Landings													
COUNTRY		United States													
TONNAGE		0-310													
STRUCTURES USED IN AGE DETERMINATION		Scales													
Length Group (2 cm)	Age	3	4	5	6	7	8	9	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE					
										Months Within Quarter					
										Apr	May	Jun			
34	-		2	-	-	-	-	-	2	-	-	-			
36	1		4	-	-	-	-	-	5	-	-	-			
38	3		9	1	-	-	-	-	13	12	-	13			
40	2		15	1	-	-	-	-	18	126	-	52			
42	3		5	2	-	-	-	-	10	72	-	104			
44	1		16	-	-	-	-	-	17	187	-	131			
46	-		14	3	-	-	-	-	17	169	-	226			
48	-		12	7	1	-	-	-	20	160	-	161			
50	-		12	11	1	-	-	-	24	80	-	124			
52	-		7	6	-	-	1	-	14	50	-	93			
54	-		2	7	1	-	-	-	10	39	-	30			
56	-		-	5	1	-	2	-	8	27	-	31			
58	-		1	2	3	-	2	-	8	18	-	9			
60	-		-	1	-	3	3	-	7	18	-	13			
62	-		-	-	-	1	2	-	3	13	-	6			
64	-		-	-	-	2	1	2	5	11	-	3			
66	-		-	-	-	-	-	-	5	7	-	3			
68	-		-	-	-	-	-	-	-	5	-	-			
70	-		-	-	-	-	-	2	2	2	-	-			
72	-		-	-	-	-	-	1	1	1	-	1			
74	-		-	-	-	-	-	-	-	-	-	-			
76	-		-	-	-	-	-	-	-	-	-	-			
78	-		-	-	-	-	-	1	1	1	-	-			
Total No. of Ages Read		10	99	46	7	6	11	6	185	1000	-	1000			
Serial Numbers		No. of Age Samples 9													
X	Number of fish measured each month												326	-	272
	Mean length of fish (cm) each month												47.79	-	47.86
	Mean weight of fish (kg) each month												1.09	-	1.12
	Total weight caught or landed (tons) each month												443	-	612
	Estimated number caught or landed (whole numbers) each month												407200	-	544800
	Range of depths (m) each month												55-137	-	73-101
Mesh size (mm)												114	-	114	

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	9	Total
Apr	50	643	221	26	17	34	9	1000
May	-	-	-	-	-	-	-	-
Jun	48	628	263	23	8	27	3	1000

TABLE 52
(cont'd)

AGE/LENGTH TABLE - HADDOCK - 5Y - 1967 (4th QUARTER)

GEAR		Otter Trawl (Commercial)																				
CATCHES OR LANDINGS		Landings																				
COUNTRY		United States																				
TONNAGE		0-310																				
STRUCTURES USED IN AGE DETERMINATION		Scales																				
Length Group (2 cm)	Age	3	4	5	6	7	8	9	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE												
										Months Within Quarter												
										Oct	Nov	Dec										
36	-	-	1	-	-	-	-	-	1	-	-	-										
38	-	-	1	-	-	-	-	-	1	-	-	13										
40	-	-	1	-	-	-	-	-	1	-	-	134										
42	-	-	-	-	-	-	-	-	-	-	-	107										
44	1	-	2	1	-	-	-	-	4	-	-	174										
46	-	-	4	-	-	-	-	-	4	-	-	174										
48	-	-	2	1	-	-	-	-	3	-	-	147										
50	-	-	6	1	-	-	-	-	7	-	-	72										
52	-	-	4	5	-	-	-	-	9	-	-	25										
54	-	-	7	3	-	1	-	-	11	-	-	42										
56	-	-	1	2	-	-	-	-	3	-	-	29										
58	-	-	-	2	-	1	-	-	3	-	-	25										
60	-	-	-	-	-	-	-	-	-	-	-	20										
62	-	-	-	-	-	2	1	-	3	-	-	14										
64	-	-	-	-	-	-	-	-	-	-	-	11										
66	-	-	-	1	-	-	-	-	1	-	-	5										
68	-	-	-	-	-	-	1	1	2	-	-	7										
Total No. of Ages Read										1	29	16	-	4	2	1	53	-	-	1000		
Serial Numbers										No. of Age Samples 2												
X										Number of fish measured each month										-	-	157
										Mean length of fish (cm) each month										-	-	47.46
										Mean weight of fish (kg) each month										-	-	1.17
										Total weight caught or landed (tons) each month										-	-	207
										Estimated number caught or landed (whole numbers) each month										-	-	175600
										Range of depths (m) each month										-	-	55-137
Mesh size (mm)										-	-	114										

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	3	4	5	6	7	8	9	Total
Oct	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-
Dec	50	713	197	-	26	9	5	1000

TABLE 53

AGE/LENGTH TABLE - HADDOCK - 5Z - 1967 (1st QUARTER)

GEAR		Otter Trawl (Commercial)											
CATCHES OR LANDINGS		Landings											
COUNTRY		United States											
TONNAGE		0-458											
STRUCTURES USED IN AGE DETERMINATION		Scales											
Length Group (2 cm)	Age	2	3	4	5	6	7	8	9	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
											Months Within Quarter		
											Jan	Feb	Mar
34		1	3	-	-	-	-	-	-	4	4	1	4
36		1	-	3	-	-	-	-	-	4	4	4	7
38		-	5	9	1	-	-	-	-	15	26	17	11
40		-	11	16	3	-	-	-	-	30	61	29	35
42		-	9	32	9	-	-	-	-	50	110	71	86
44		-	11	45	13	-	-	-	-	69	147	105	126
46		-	6	52	25	1	-	-	-	84	173	172	140
48		-	-	48	24	-	-	-	-	72	171	183	188
50		-	-	37	40	2	-	-	1	80	111	175	112
52		-	-	38	56	1	3	1	-	99	65	82	104
54		-	-	25	49	11	3	2	-	90	44	52	53
56		-	-	5	33	5	4	4	-	51	20	24	34
58		-	-	1	30	7	5	3	-	46	13	18	23
60		-	-	-	9	12	8	8	1	38	11	17	16
62		-	-	-	3	9	8	4	-	24	6	9	13
64		-	-	-	-	4	10	6	9	29	6	9	11
66		-	-	1	-	3	12	4	5	25	7	7	10
68		-	-	-	1	4	7	10	5	27	7	7	10
70		-	-	-	-	1	2	6	4	13	4	7	5
72		-	-	-	-	-	1	2	7	10	4	3	4
74		-	-	-	-	-	1	1	6	8	4	5	3
76		-	-	-	-	-	-	2	4	6	1	2	2
78		-	-	-	-	-	-	-	2	2	-	1	1
80		-	-	-	-	-	-	-	-	-	1	-	-
Total No. of Ages Read		2	45	312	296	60	64	53	44	876			
Serial Numbers		No. of Age Samples 52											
X	Number of fish measured each month										1797	1548	1637
	Mean length of fish (cm) each month										48.03	49.39	49.48
	Mean weight of fish (kg) each month										1.23	1.31	1.24
	Total weight caught or landed (tons) each month										3802	2371	4496
	Estimated number caught or landed (whole numbers) each month										3088700	1803100	3616300
	Range of depths (m) each month										51-284	46-256	55-274
Mesh size (mm)										114	114	114	

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	2	3	4	5	6	7	8	9	Total
Jan	2	90	530	305	24	19	16	14	1000
Feb	1	59	502	343	31	25	21	18	1000
Mar	3	65	490	335	34	31	24	18	1000

TABLE 53
(cont'd)

AGE/LENGTH TABLE - HADDOCK - 52 - 1967 (2nd QUARTER)

GEAR		Otter Trawl (Commercial)											
CATCHES OR LANDINGS		Landings											
COUNTRY		United States											
TONNAGE		0-458											
STRUCTURES USED IN AGE DETERMINATION		Scales											
Length Group (2 cm)	Age	2	3	4	5	6	7	8	9	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE		
											Months Within Quarter		
											Apr	May	Jun
34	-	-	-	-	-	-	-	-	-	-	1	-	-
36	1	2	7	1	-	-	-	-	-	11	5	5	1
38	-	4	6	-	-	-	-	-	-	10	7	6	15
40	-	6	17	1	-	-	-	-	-	24	29	19	47
42	-	16	33	-	-	-	-	-	-	49	80	49	79
44	-	7	38	12	-	-	-	-	-	57	105	98	107
46	-	4	56	15	-	-	-	-	-	75	170	124	129
48	-	-	53	22	-	-	-	-	-	75	152	149	151
50	-	-	39	30	2	3	-	-	-	74	136	138	144
52	-	-	27	42	1	2	1	-	-	73	101	115	81
54	-	-	20	42	7	3	1	-	-	73	49	93	64
56	-	-	15	47	11	3	2	2	-	80	34	51	36
58	-	-	3	31	13	4	5	2	-	58	24	35	29
60	-	-	1	16	22	11	10	2	-	62	23	18	22
62	-	-	-	5	14	7	10	6	-	42	19	15	18
64	-	-	-	6	11	16	15	10	-	58	17	16	18
66	-	-	-	2	9	8	10	9	-	38	18	15	16
68	-	-	-	-	3	8	6	11	-	28	10	15	14
70	-	-	-	-	-	6	14	8	-	28	11	15	13
72	-	-	-	-	-	7	3	8	-	18	5	11	8
74	-	-	-	-	-	3	4	10	-	17	2	8	5
76	-	-	-	-	-	-	-	4	-	4	2	3	1
78	-	-	-	-	-	-	-	-	-	-	1	2	1
80	-	-	-	-	-	-	-	3	-	3	-	-	1
82	-	-	-	-	-	-	-	-	-	-	-	-	1
Total No. of Ages Read		1	39	315	272	93	81	81	75	957	1000	1000	1000
Serial Numbers		No. of Age Samples 57											
X	Number of fish measured each month										1511	1872	1961
	Mean length of fish (cm) each month										50.20	51.56	50.48
	Mean weight of fish (kg) each month										1.30	1.35	1.35
	Total weight caught or landed (tons) each month										3006	2938	4391
	Estimated number caught or landed (whole numbers) each month										2308400	2174200	3239200
	Range of depths (m) each month										53-274	33-201	33-146
Mesh size (mm)										114	114	114	

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	2	3	4	5	6	7	8	9	Total
Apr	-	59	518	288	43	37	31	24	1000
May	-	43	471	324	48	43	36	35	1000
Jun	-	64	503	284	45	40	34	30	1000

TABLE 53
(cont'd)

AGE/LENGTH TABLE - HADDOCK - 5Z - 1967 (3rd QUARTER)

GEAR		Otter Trawl (Commercial)												
CATCHES OR LANDINGS		Landings												
COUNTRY		United States												
TONNAGE		0-458												
STRUCTURES USED IN AGE DETERMINATION		Scales												
Length Group (2 cm)	Age	2	3	4	5	6	7	8	9	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE			
											Months Within Quarter			
											Jul	Aug	Sep	
34	-	-	-	-	-	-	-	-	-	-	-	-	-	2
36	1	1	1	-	-	-	-	-	-	3	5	6	17	
38	2	2	4	-	-	-	-	-	-	8	18	13	18	
40	-	4	7	-	-	-	-	-	-	11	56	19	40	
42	-	2	14	-	-	-	-	-	-	16	96	48	42	
44	-	7	25	2	-	-	-	-	-	34	132	67	39	
46	-	10	37	5	-	-	-	-	-	52	139	120	89	
48	-	4	45	10	1	-	-	-	-	60	122	156	110	
50	-	3	51	11	-	-	-	-	-	65	129	172	133	
52	-	3	58	19	-	2	-	-	-	82	95	115	134	
54	-	-	55	35	2	3	1	-	-	96	81	77	143	
56	-	1	28	38	4	2	1	-	-	74	58	50	102	
58	-	-	11	27	1	-	1	-	-	40	35	49	65	
60	-	-	4	14	5	-	3	-	-	26	17	27	26	
62	-	-	1	5	3	3	3	1	-	16	4	22	18	
64	-	-	-	3	6	2	3	-	-	14	6	12	8	
66	-	-	-	-	1	2	2	-	-	5	2	16	5	
68	-	-	-	-	-	1	3	2	-	6	2	9	2	
70	-	-	-	-	1	-	2	1	-	4	2	6	1	
72	-	-	-	-	-	-	3	2	-	5	-	7	2	
74	-	-	-	-	-	-	1	-	-	1	1	7	1	
76	-	-	-	-	-	-	1	-	-	1	-	2	2	
											1000	1000	1000	
Total No. of Ages Read		3	37	341	169	24	15	24	6	619				
Serial Numbers	No. of Age Samples 36													
X	Number of fish measured each month										1802	1360	1412	
	Mean length of fish (cm) each month										48.87	51.32	51.32	
	Mean weight of fish (kg) each month										1.25	1.47	1.44	
	Total weight caught or landed (tons) each month										3288	3054	2723	
	Estimated number caught or landed (whole numbers) each month										2640400	2072200	1895400	
	Range of depths (m) each month										33-150	27-183	27-274	
Mesh size (mm)										114	114	114		

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	2	3	4	5	6	7	8	9	Total
Jul	6	111	668	180	15	9	10	1	1000
Aug	5	78	614	208	27	20	39	9	1000
Sep	10	75	596	254	25	17	20	3	1000

TABLE 53
(cont'd)

AGE/LENGTH TABLE - HADDOCK - 52 - 1967 (4th QUARTER)

GEAR		Otter Trawl (Commercial)																						
CATCHES OR LANDINGS		Landings																						
COUNTRY		United States																						
TONNAGE		0-458																						
STRUCTURES USED IN AGE DETERMINATION		Scales																						
Length Group (2 cm)	Age	1	2	3	4	5	6	7	8	9	Total No. of Ages Read	LENGTH COMPOSITION PER MILLE												
												Months Within Quarter												
											Oct	Nov	Dec											
32	1	-	-	-	-	-	-	-	-	-	1	-	-	-										
34	8	2	-	-	-	-	-	-	-	-	10	2	2	9										
36	16	1	-	1	-	-	-	-	-	-	18	11	26	33										
38	19	-	-	-	-	-	-	-	-	-	19	11	42	81										
40	11	-	2	4	-	-	-	-	-	-	17	26	27	50										
42	1	1	1	4	-	-	-	-	-	-	7	33	22	27										
44	2	-	1	17	2	-	-	-	-	-	22	63	29	39										
46	2	1	10	18	1	-	-	-	-	-	32	101	62	51										
48	1	2	14	36	3	-	-	-	-	-	56	150	87	73										
50	-	-	10	52	4	-	-	-	-	-	66	142	142	129										
52	-	-	10	67	14	-	1	-	-	-	92	126	174	124										
54	-	-	4	74	23	-	-	-	-	-	101	104	151	130										
56	-	-	4	43	30	2	-	1	-	-	80	85	107	100										
58	-	-	1	36	15	1	1	-	-	-	54	53	65	75										
60	-	-	-	13	12	3	-	1	-	-	29	34	35	30										
62	-	-	-	5	5	1	1	-	2	-	14	18	12	18										
64	-	-	-	1	2	-	1	-	-	-	4	7	8	11										
66	-	-	-	-	1	2	-	-	-	-	3	8	2	4										
68	-	-	-	-	-	1	2	2	-	-	5	9	2	7										
70	-	-	-	-	-	-	-	3	1	-	4	6	2	6										
72	-	-	-	-	-	-	2	1	1	1	4	3	1	1										
74	-	-	-	-	-	-	-	-	1	1	1	4	-	2										
76	-	-	-	-	-	-	-	-	-	1	1	2	1	-										
78	-	-	-	-	-	-	-	-	-	2	2	1	2	-										
Total No. of Ages Read											61	7	57	371	112	10	8	8	8	642	1000	1000	1000	
Serial Numbers											No. of Age Samples					37								
X											Number of fish measured each month											1467	995	1325
											Mean length of fish (cm) each month											51.51	51.45	50.64
											Mean weight of fish (kg) each month											1.52	1.50	1.47
											Total weight caught or landed (tons) each month											1985	1430	1219
											Estimated number caught or landed (whole numbers) each month											1309400	950900	829500
											Range of depths (m) each month											37-201	26-201	37-293
											Mesh size (mm)											114	114	114

AGE COMPOSITIONS OF LANDINGS (PER MILLE)

Month	1	2	3	4	5	6	7	8	9	Total
Oct	58	14	125	613	142	15	10	11	12	1000
Nov	96	10	102	605	160	10	7	5	5	1000
Dec	161	12	91	549	149	12	10	10	6	1000

GEAR	Otter Trawl (Commercial)		
CATCHES/LANDINGS	Catches		
MONTH	June		
COUNTRY	Poland		
SPECIES OR TYPE	<i>S. marinus</i>		
SEX	♂	♀	Tot.
TONNAGE	2600		
19	4	-	4
20	8	-	8
21	-	-	-
22	4	-	4
23	11	19	30
24	-	8	8
25	-	4	4
26	-	-	-
27	11	11	22
28	11	-	11
29	11	-	11
30	4	8	12
31	-	8	8
32	8	19	27
33	4	8	12
34	4	4	8
35	4	15	19
36	8	11	19
37	11	8	19
38	11	15	26
39	4	23	27
40	23	15	38
41	4	38	42
42	19	42	61
43	27	65	92
44	27	54	81
45	23	46	69
46	46	31	77
47	11	23	34
48	15	38	53
49	12	15	27
50	8	23	31
51	4	11	15
52	4	8	12
53	4	11	15
54	4	11	15
55	4	-	4
56	-	15	15
57	4	-	4
58	4	4	8
59	-	-	-
60	-	-	-
61	-	-	-
62	-	4	4
63	-	12	12
64	-	8	8
65	-	4	4
Total ‰	361	639	1000
Serial Numbers	-	-	-
Number of Samples	-	-	1
Number of Fish Measured	-	-	261
Mean Length (cm)	40.6	43.2	42.2
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	-	-	-
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	114
Range of Depths (fm)	-	-	153-164

TABLE 54
(cont'd)

LENGTH FREQUENCIES - REDFISH - 1D - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Prawn Trawl (Research)											
	NK											
CATCHES/LANDINGS	NK											
MONTH	February			March			April			November		
COUNTRY	Denmark (Greenland)											
SPECIES OR TYPE	NK											
SEX	♂	♀	Tot.	♂	♀	Tot.	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	0-50											
5	-	-	7	-	-	-	-	-	4	-	-	-
6	-	-	20	-	-	20	-	-	2	-	-	-
7	-	-	7	-	-	10	-	-	18	-	-	6
8	-	-	-	-	-	-	-	-	4	-	-	12
9	-	-	34	-	-	7	-	-	15	-	-	15
10	-	-	87	-	-	68	-	-	58	-	-	12
11	-	-	81	-	-	46	-	-	80	-	-	30
12	-	-	87	-	-	53	-	-	71	-	-	70
13	-	-	107	-	-	58	-	-	35	-	-	98
14	-	-	54	-	-	89	-	-	60	-	-	88
15	-	-	107	-	-	115	-	-	97	-	-	67
16	-	-	121	-	-	92	-	-	60	-	-	82
17	-	-	54	-	-	50	-	-	44	-	-	107
18	-	-	20	-	-	29	-	-	29	-	-	113
19	-	-	20	-	-	26	-	-	24	-	-	82
20	-	-	20	-	-	43	-	-	40	-	-	27
21	-	-	-	-	-	24	-	-	18	-	-	18
22	-	-	13	-	-	24	-	-	33	-	-	15
23	-	-	7	-	-	24	-	-	22	-	-	3
24	-	-	-	-	-	26	-	-	24	-	-	15
25	-	-	-	-	-	24	-	-	20	-	-	6
26	-	-	13	-	-	14	-	-	31	-	-	-
27	-	-	7	-	-	22	-	-	40	-	-	9
28	-	-	27	-	-	19	-	-	29	-	-	6
29	-	-	13	-	-	26	-	-	27	-	-	18
30	-	-	34	-	-	26	-	-	31	-	-	24
31	-	-	13	-	-	13	-	-	11	-	-	6
32	-	-	13	-	-	7	-	-	24	-	-	12
33	-	-	-	-	-	9	-	-	9	-	-	6
34	-	-	-	-	-	1	-	-	7	-	-	6
35	-	-	-	-	-	4	-	-	11	-	-	3
36	-	-	7	-	-	7	-	-	4	-	-	-
37	-	-	-	-	-	7	-	-	7	-	-	-
38	-	-	7	-	-	3	-	-	4	-	-	3
39	-	-	-	-	-	6	-	-	2	-	-	3
40	-	-	13	-	-	1	-	-	2	-	-	-
41	-	-	-	-	-	3	-	-	-	-	-	3
42	-	-	-	-	-	1	-	-	-	-	-	6
43	-	-	7	-	-	-	-	-	-	-	-	-
44	-	-	-	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	2	-	-	3
46	-	-	-	-	-	-	-	-	-	-	-	-
47	-	-	-	-	-	-	-	-	-	-	-	-
48	-	-	-	-	-	-	-	-	-	-	-	-
49	-	-	-	-	-	-	-	-	-	-	-	3
50	-	-	-	-	-	-	-	-	-	-	-	9
51	-	-	-	-	-	-	-	-	-	-	-	-
52	-	-	-	-	-	-	-	-	-	-	-	6
53	-	-	-	-	-	-	-	-	-	-	-	3
Total ‰	-	-	1000	-	-	997	-	-	999	-	-	995
Serial Numbers	-	-	-	-	-	-	-	-	-	-	-	-
Number of Samples	-	-	-	-	-	-	-	-	-	-	-	-
Number of Fish Measured	-	-	149	-	-	695	-	-	452	-	-	328
Mean Length (cm)	-	-	16.4	-	-	18.1	-	-	18.8	-	-	18.5
Mean Weight (kg)	-	-	-	-	-	-	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	-	-	-	-	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	-	-	-	-	-	-	-	-	-	-
Range of Depths (fm)	-	-	140-143	-	-	140	-	-	140-143	-	-	182-363

TABLE 54
(cont'd)

LENGTH FREQUENCIES - REDFISH - 1D - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Pound Net (Research)		
CATCHES/LANDINGS	NK		
MONTH	May		
COUNTRY	Denmark (Greenland)		
SPECIES OR TYPE	NK		
SEX	♂♂	♀♀	Tot.
TONNAGE	0-50		
36	-	-	7
37	-	-	3
38	-	-	8
39	-	-	12
40	-	-	27
41	-	-	47
42	-	-	72
43	-	-	152
44	-	-	134
45	-	-	145
46	-	-	115
47	-	-	105
48	-	-	64
49	-	-	48
50	-	-	33
51	-	-	13
52	-	-	10
53	-	-	2
54	-	-	2
Total ‰	-	-	1001
Serial Numbers	-	-	-
Number of Samples	-	-	-
Number of Fish Measured	-	-	598
Mean Length (cm)	-	-	44.8
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	-	-	-
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	-
Range of Depths (fm)	-	-	-

TABLE 55

LENGTH FREQUENCIES - REDFISH - 2G - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl		
CATCHES/LANDINGS	(Commercial)		
MONTH	June		
COUNTRY	Poland		
SPECIES OR TYPE	<i>S. mentella</i>		
SEX	♂	♀	Tot.
TONNAGE	2600		
21	8	-	8
22	16	14	30
23	35	20	55
24	40	22	62
25	66	51	117
26	57	42	99
27	61	47	108
28	55	44	99
29	43	42	85
30	38	33	71
31	29	35	64
32	30	21	51
33	23	23	46
34	13	10	23
35	8	12	20
36	9	9	18
37	9	6	15
38	4	9	13
39	4	1	5
40	-	4	4
41	4	1	5
42	-	-	-
43	-	1	1
44	-	-	-
45	-	-	-
46	-	-	-
47	-	-	-
48	-	1	1
Total ‰	552	448	1000
Serial Numbers	-	-	-
Number of Samples	-	-	1
Number of Fish Measured	-	-	769
Mean Length (cm)	27.9	28.9	28.4
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	-	-	-
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	114
Range of Depths (fm)	-	-	290-328

GEAR	Otter Trawl		
	(Research)		
CATCHES/LANDINGS	Catches		
MONTH	November		
COUNTRY	USSR		
SPECIES OR TYPE	<i>S. mentella</i>		
SEX	♂	♀	Tot.
TONNAGE	1800		
20	1	-	1
21	-	-	-
22	-	-	-
23	-	-	-
24	1	1	2
25	3	3	6
26	7	2	9
27	18	5	23
28	22	17	39
29	50	15	65
30	36	12	48
31	55	33	88
32	47	35	82
33	15	15	30
34	21	17	38
35	36	25	61
36	38	23	61
37	40	34	74
38	49	60	109
39	20	36	56
40	21	47	68
41	11	45	56
42	7	31	38
43	6	12	18
44	2	9	11
45	2	13	15
46	-	1	1
47	-	1	1
Total ‰	508	492	1000
Serial Numbers	-	-	-
Number of Samples	-	-	-
Number of Fish Measured	492	475	967
Mean Length (cm)	33.73	36.68	35.18
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	-	-	227
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	110	110	110
Range of Depths (fm)	173-195	173-195	173-195

TABLE 57

LENGTH FREQUENCIES - REDFISH - 2J - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl											
	(Commercial)											
CATCHES/LANDINGS	Catches											
MONTH	May			May			June			June		
COUNTRY	Poland											
SPECIES OR TYPE	<i>S. mentella</i>			<i>S. marinus</i>			<i>S. mentella</i>					
SEX	♂	♀	Tot.	♂	♀	Tot.	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	2600											
15	-	-	-	-	-	-	-	-	-	1	-	1
16	-	-	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-
21	1	1	2	-	-	-	-	-	-	-	-	-
22	2	1	3	-	-	-	-	-	-	1	-	1
23	-	2	2	-	-	-	-	-	-	-	-	-
24	1	-	1	-	-	-	1	-	1	-	-	-
25	6	7	13	-	-	-	6	3	9	4	-	4
26	18	21	39	-	-	-	7	3	10	6	1	7
27	31	39	70	-	-	-	3	5	8	10	4	14
28	38	44	82	-	-	-	24	7	31	26	4	30
29	32	37	69	-	2	2	14	11	25	33	9	42
30	40	37	77	-	-	-	19	30	49	43	13	56
31	27	28	55	1	-	1	18	32	50	24	18	42
32	37	37	74	1	3	4	22	54	76	37	18	55
33	16	22	38	-	3	3	31	70	101	39	21	60
34	16	23	39	-	3	3	33	59	92	45	10	55
35	32	28	60	4	4	8	33	68	101	65	18	83
36	27	18	45	8	4	12	27	31	58	65	14	79
37	25	17	42	7	6	13	31	37	68	60	10	70
38	16	16	32	9	6	15	23	25	48	37	18	55
39	12	16	28	6	7	13	20	20	40	11	16	27
40	3	28	31	13	21	34	28	13	41	4	26	30
41	4	30	34	15	16	31	26	20	46	1	40	41
42	1	29	30	15	19	34	13	15	28	-	47	47
43	2	32	34	22	22	44	9	17	26	1	56	57
44	1	32	33	30	23	53	2	20	22	-	35	35
45	-	31	31	36	39	75	-	14	14	-	39	39
46	-	14	14	39	33	72	-	10	10	-	23	23
47	-	12	12	36	29	65	1	18	19	-	16	16
48	-	8	8	29	27	56	1	15	16	-	22	22
49	-	1	1	21	23	44	-	6	6	-	5	5
50	-	1	1	20	34	54	-	3	3	-	2	2
51	-	-	-	5	33	38	-	-	-	-	1	1
52	-	-	-	6	46	52	-	-	-	-	-	-
53	-	-	-	3	54	57	-	-	-	-	-	-
54	-	-	-	-	50	50	-	-	-	-	-	-
55	-	-	-	-	43	43	-	-	-	-	-	-
56	-	-	-	-	46	46	-	-	-	-	-	-
57	-	-	-	-	29	29	-	-	-	-	-	-
58	-	-	-	-	21	21	-	-	-	-	-	-
59	-	-	-	-	13	13	-	-	-	-	-	-
60	-	-	-	-	8	8	-	-	-	-	-	-
61	-	-	-	-	3	3	-	-	-	-	-	-
62	-	-	-	-	2	2	-	-	-	-	-	-
63	-	-	-	-	2	2	-	-	-	-	-	-
Total ‰	388	612	1000	326	674	1000	393	607	1000	514	486	1000
Serial Numbers	-	-	-	-	-	-	-	-	-	-	-	-
Number of Samples	-	-	3	-	-	2	-	-	1	-	-	1
Number of Fish Measured	-	-	1789	-	-	1882	-	-	883	-	-	1156
Mean Length (cm)	31.9	35.6	34.2	45.3	49.7	48.2	34.99	36.31	35.79	33.5	40.1	36.7
Mean Weight (kg)	-	-	-	-	-	-	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	-	-	-	-	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	114	-	-	114	-	-	114	-	-	114
Range of Depths (fm)	-	-	-202-284	-	-	-202-284	-	-	-219-306	-	-	-98-109

TABLE 57
(cont'd)

LENGTH FREQUENCIES - REDFISH - 2J - 1967

(FREQUENCIES IN % - 1 CM GROUPS)

GEAR	Otter Trawl (Research)											
	Catches											
CATCHES/LANDINGS	February			March			April			May		
MONTH	USSR											
COUNTRY	<i>S. mentella</i>											
SPECIES OR TYPE												
SEX	♂	♀	Tot.	♂	♀	Tot.	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	1800			3500			1800			3500		
20	-	-	-	1	-	1	-	-	-	-	-	-
21	-	-	-	1	-	1	-	-	-	-	-	-
22	-	-	-	4	6	10	-	-	-	-	-	-
23	-	-	-	10	3	13	1	1	2	-	-	-
24	-	-	-	31	15	46	1	1	2	-	-	-
25	-	2	2	39	33	72	1	3	4	-	-	-
26	2	3	5	30	52	82	6	6	12	-	-	-
27	3	4	7	70	55	125	6	13	19	2	2	4
28	9	2	11	54	45	99	8	23	31	2	-	2
29	11	7	18	42	15	57	16	15	31	4	2	6
30	10	5	15	41	21	62	10	15	25	12	7	19
31	17	22	39	23	23	46	20	22	42	4	7	11
32	24	20	44	24	28	52	18	22	40	7	9	16
33	13	20	33	16	17	33	25	26	51	4	12	16
34	28	16	44	33	31	64	27	24	51	7	12	19
35	48	15	63	21	20	41	45	21	66	11	9	20
36	55	16	71	16	8	24	46	19	65	26	21	47
37	58	15	73	16	20	36	62	18	80	52	12	64
38	47	17	64	6	10	16	57	21	78	33	16	49
39	31	30	61	6	7	13	29	14	43	21	11	32
40	27	46	73	4	10	14	20	25	45	38	12	50
41	14	49	63	2	11	13	5	24	29	26	16	42
42	7	45	52	3	14	17	-	31	31	7	14	21
43	5	52	57	1	10	11	1	47	48	12	18	30
44	2	36	38	2	6	8	1	43	44	4	32	36
45	2	58	60	2	10	12	1	50	51	7	54	61
46	2	36	38	-	12	12	-	46	46	18	54	72
47	2	34	36	-	12	12	1	26	27	11	83	94
48	-	14	14	-	3	3	-	17	17	12	51	63
49	-	14	14	-	2	2	-	10	10	8	49	57
50	-	4	4	-	2	2	-	8	8	5	54	59
51	-	1	1	-	-	-	-	1	1	4	25	29
52	-	-	-	-	1	1	-	-	-	4	5	9
53	-	-	-	-	-	-	-	1	1	2	9	11
54	-	-	-	-	-	-	-	-	-	2	9	11
55	-	-	-	-	-	-	-	-	-	-	14	14
56	-	-	-	-	-	-	-	-	-	2	12	14
57	-	-	-	-	-	-	-	-	-	-	2	2
58	-	-	-	-	-	-	-	-	-	-	5	5
59	-	-	-	-	-	-	-	-	-	-	7	7
60	-	-	-	-	-	-	-	-	-	-	4	4
61	-	-	-	-	-	-	-	-	-	-	2	2
62	-	-	-	-	-	-	-	-	-	-	2	2
Total %/oo	417	583	1000	498	502	1000	407	593	1000	347	653	1000
Serial Numbers	-	-	-	-	-	-	-	-	-	-	-	-
Number of Samples	-	-	-	-	-	1	-	-	-	-	-	1
Number of Fish Measured	409	571	980	843	851	1694	583	848	1431	197	371	568
Mean Length (cm)	35.99	40.62	38.68	29.75	32.41	31.08	35.18	39.23	37.58	39.79	45.47	43.50
Mean Weight (kg)	-	-	-	-	-	-	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	152	-	-	274	-	-	70	-	-	21
Estimated Number Landed	-	-	-	-	-	-	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	110	-	-	110	-	-	110	-	-	110
Range of Depths (fm)	-	-168-324	-	-	-232-254	-	-	-178-270	-	-	-227-243	-

TABLE 57
(cont'd)

LENGTH FREQUENCIES - REDFISH - 2J - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl (Research)					
	Catches					
CATCHES/LANDINGS	August			October		
MONTH	USSR					
COUNTRY	<i>S. mentella</i>					
SPECIES OR TYPE						
SEX	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	3500			1800		
22	-	-	-	1	1	2
23	1	2	3	-	-	-
24	1	2	3	1	1	2
25	10	6	16	1	1	2
26	13	11	24	5	3	8
27	23	22	45	12	14	26
28	39	28	67	30	27	57
29	25	12	37	21	20	41
30	27	26	53	29	29	58
31	25	16	41	39	29	68
32	33	32	65	39	31	70
33	35	20	55	44	30	74
34	30	23	53	35	30	65
35	48	21	69	48	25	73
36	54	21	75	44	32	76
37	58	26	84	56	34	90
38	56	32	88	46	52	98
39	18	20	38	17	31	48
40	30	22	52	15	30	45
41	10	14	24	9	26	35
42	11	23	34	4	23	27
43	7	13	20	4	13	17
44	3	14	17	3	4	7
45	9	11	20	1	3	4
46	1	8	9	1	4	5
47	1	2	3	-	1	1
48	1	1	2	-	1	1
49	-	1	1	-	-	-
50	-	-	-	-	-	-
51	-	-	-	-	-	-
52	-	1	1	-	-	-
53	-	1	1	-	-	-
Total ‰	569	431	1000	505	495	1000
Serial Numbers	-	-	-	-	-	-
Number of Samples	-	-	-	-	-	-
Number of Fish Measured	1060	803	1863	1592	1563	3155
Mean Length (cm)	34.35	35.23	34.73	34.06	35.32	34.69
Mean Weight (kg)	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	62	-	-	2686
Estimated Number Landed	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	110	-	-	110
Range of Depths (fm)	-	-	157-386	-	-	135-303

GEAR	Otter Trawl					
	(Commercial)			(Research)		
CATCHES/LANDINGS	Catches					
MONTH	July			April		
COUNTRY	USSR					
SPECIES OR TYPE	<i>S. mentella</i>					
SEX	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	2600			1800		
15	1	-	1	-	-	-
16	-	1	1	-	-	-
17	-	-	-	-	-	-
18	1	-	1	-	-	-
19	-	-	-	-	-	-
20	1	1	2	-	-	-
21	-	-	-	-	-	-
22	1	-	1	-	-	-
23	2	-	2	-	-	-
24	2	3	5	-	-	-
25	10	3	13	-	-	-
26	16	13	19	-	-	-
27	39	17	56	-	-	-
28	47	32	79	-	-	-
29	44	13	57	1	-	1
30	50	35	85	3	1	4
31	44	30	74	2	1	3
32	49	61	110	8	4	12
33	49	60	109	14	9	23
34	37	41	78	15	8	23
35	36	39	75	38	14	52
36	31	13	44	58	14	72
37	29	16	45	92	16	108
38	28	10	38	94	19	113
39	10	5	15	49	13	62
40	10	5	15	44	25	69
41	3	7	10	7	23	30
42	2	10	12	4	36	40
43	1	13	14	3	49	52
44	-	12	12	1	45	46
45	-	8	8	1	82	83
46	-	5	5	1	56	57
47	-	1	1	-	58	58
48	-	3	3	-	54	54
49	-	-	-	-	17	17
50	-	-	-	-	16	16
51	-	-	-	-	2	2
52	-	-	-	-	3	3
Total ‰	543	457	1000	435	565	1000
Serial Numbers	-	-	-	-	-	-
Number of Samples	-	-	2	-	-	1
Number of Fish Measured	-	-	3455	1374	1786	3160
Mean Length (cm)	31.9	33.6	32.7	37.21	43.48	40.75
Mean Weight (kg)	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	-	-	-	40
Estimated Number Landed	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	114	-	-	110
Range of Depths (fm)	-	-	170-186	-	-	162-170

TABLE 59

LENGTH FREQUENCIES - REDFISH - 3L - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl		
CATCHES/LANDINGS	(Research)		
MONTH	Catches		
COUNTRY	January		
SPECIES OR TYPE	USSR		
SEX	<i>S mentella</i>		
TONNAGE	♂	♀	Tot.
		1800	
26	1	-	1
27	2	1	3
28	4	3	7
29	4	3	7
30	9	4	13
31	13	9	22
32	13	7	20
33	11	6	17
34	26	14	40
35	75	30	105
36	86	28	114
37	79	26	105
38	69	31	100
39	42	28	70
40	34	41	75
41	19	56	75
42	10	35	45
43	6	36	42
44	5	37	42
45	4	46	50
46	1	21	22
47	-	10	10
48	-	7	7
49	-	5	5
50	-	2	2
51	-	1	1
Total ‰	513	487	1000
Serial Numbers	-	-	-
Number of Samples	-	-	1
Number of Fish Measured	2950	2798	5748
Mean Length (cm)	36.68	40.25	38.42
Mean Weight (kg)	0.947	1.224	1.145
Total Weight Landed (tons)	-	-	50
Estimated Number Landed	-	-	43668
Mesh(mm) or Hook(no.) Size	-	-	110
Range of Depths (fm)	-	-	241-278

TABLE 60

LENGTH FREQUENCIES - REDFISH - 3M - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl (Research)					
	Catches					
CATCHES/LANDINGS	January			February		
MONTH	USSR					
COUNTRY	<i>S. mentella</i>					
SPECIES OR TYPE"	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
SEX	1800					
TONNAGE						
22	-	1	1	-	-	-
23	1	-	1	-	-	1
24	-	1	1	1	-	1
25	1	1	2	-	-	-
26	1	1	2	1	-	1
27	1	1	2	-	-	-
28	2	1	3	-	-	-
29	2	1	3	-	-	-
30	4	2	6	2	-	2
31	10	2	12	8	2	10
32	17	5	22	13	2	15
33	28	8	36	28	4	32
34	56	21	77	46	16	62
35	77	63	140	82	64	146
36	68	95	163	53	125	178
37	42	94	136	33	125	158
38	28	92	120	21	111	132
39	16	86	102	6	98	104
40	8	65	73	6	48	54
41	4	45	49	4	48	52
42	2	19	21	2	25	27
43	1	11	12	1	11	12
44	-	7	7	-	4	4
45	-	6	6	1	6	7
46	-	2	2	-	1	1
47	-	1	1	-	2	2
Total ‰	369	631	1000	308	692	1000
Serial Numbers	-	-	-	-	-	-
Number of Samples	-	-	2	-	-	-
Number of Fish Measured	5314	9047	14411	692	1557	2249
Mean Length (cm)	35.29	37.79	36.86	35.34	37.86	37.08
Mean Weight (kg)	0.507	0.683	0.609	-	-	-
Total Weight Landed (tons)	-	-	35	-	-	30
Estimated Number Landed	-	-	57377	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	110	-	-	110
Range of Depths (fm)	-	-	319-338	-	-	297-351

TABLE 61

LENGTH FREQUENCIES - REDFISH - 3N - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl					
	(Commercial)			(Research)		
CATCHES/LANDINGS	Landings After Discards			NK		
MONTH	March			March		
COUNTRY	Canada (Newfoundland)			France		
SPECIES OF TYPE	<i>S. mentella</i>					
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	501-900			850-1500		
17	-	-	-	-	-	2
18	-	-	-	-	-	11
19	-	-	-	-	-	13
20	-	-	-	-	-	20
21	-	-	-	-	-	18
22	-	-	-	-	-	15
23	3	-	3	-	-	36
24	-	3	3	-	-	53
25	-	-	-	-	-	77
26	-	7	7	-	-	111
27	10	7	17	-	-	182
28	36	17	53	-	-	182
29	17	10	27	-	-	107
30	26	13	39	-	-	58
31	50	36	86	-	-	53
32	73	50	123	-	-	33
33	79	76	155	-	-	4
34	66	66	132	-	-	11
35	56	59	115	-	-	7
36	20	33	53	-	-	2
37	17	33	50	-	-	2
38	10	36	46	-	-	4
39	-	20	20	-	-	-
40	7	23	30	-	-	-
41	-	23	23	-	-	-
42	-	3	3	-	-	-
43	3	3	6	-	-	-
44	-	3	3	-	-	-
45	-	3	3	-	-	-
46	-	3	3	-	-	-
Total ‰	473	527	1000	-	-	1001
Serial Numbers	-	-	-	-	-	-
Number of Samples	-	-	1	-	-	2
Number of Fish Measured	143	160	303	-	-	549
Mean Length (cm)	32.664	34.600	33.686	-	-	-
Mean Weight (kg)	-	-	.486	-	-	-
Total Weight Landed (tons)	-	-	2.860	-	-	-
Estimated Number Landed	-	-	5884	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	large	-	-	110-140
Range of Depths (fm)	-	-	30-60	-	-	100-150

GEAR	Otter Trawl (Research)					
CATCHES/LANDINGS	NK					
MONTH	March			March		
COUNTRY	France					
SPECIES OR TYPE	<i>S. mentalla</i>					
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	850-1500					
6	-	-	8	-	-	-
7	-	-	132	-	-	-
8	-	-	179	-	-	-
9	-	-	89	-	-	-
10	-	-	4	-	-	-
11	-	-	13	-	-	-
12	-	-	8	-	-	-
13	-	-	-	-	-	-
14	-	-	-	-	-	1
15	-	-	4	-	-	-
16	-	-	8	-	-	2
17	-	-	26	-	-	4
18	-	-	30	-	-	6
19	-	-	81	-	-	26
20	-	-	187	-	-	68
21	-	-	64	-	-	48
22	-	-	26	-	-	52
23	-	-	26	-	-	65
24	-	-	13	-	-	67
25	-	-	30	-	-	79
26	-	-	8	-	-	84
27	-	-	8	-	-	65
28	-	-	17	-	-	109
29	-	-	17	-	-	122
30	-	-	8	-	-	87
31	-	-	8	-	-	30
32	-	-	4	-	-	21
33	-	-	-	-	-	21
34	-	-	-	-	-	26
35	-	-	-	-	-	8
36	-	-	-	-	-	4
37	-	-	-	-	-	2
38	-	-	-	-	-	2
39	-	-	-	-	-	1
Total ‰	-	-	998	-	-	1000
Serial Numbers	-	-	-	-	-	-
Number of Samples	-	-	2	-	-	5
Number of Fish Measured	-	-	235	-	-	898
Mean Length (cm)	-	-	-	-	-	-
Mean Weight (kg)	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	110-140	-	-	110-140
Range of Depths (fm)	-	-	55-120	-	-	120-170

TABLE 62
(cont'd)

LENGTH FREQUENCIES - REDFISH - 30 - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl (Research)								
	NK								
CATCHES/LANDINGS	March			April			April		
MONTH	France								
COUNTRY	<i>S. mentella</i>								
SPECIES OR TYPE	850-1500								
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE									
6	-	-	-	-	-	6	-	-	-
7	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	6	-	-	6
11	-	-	-	-	-	29	-	-	-
12	-	-	-	-	-	57	-	-	-
13	-	-	-	-	-	34	-	-	-
14	-	-	-	-	-	57	-	-	11
15	-	-	-	-	-	46	-	-	-
16	-	-	-	-	-	138	-	-	6
17	-	-	-	-	-	80	-	-	22
18	-	-	-	-	-	75	-	-	6
19	-	-	15	-	-	121	-	-	22
20	-	-	22	-	-	103	-	-	34
21	-	-	44	-	-	34	-	-	45
22	-	-	22	-	-	52	-	-	62
23	-	-	-	-	-	40	-	-	51
24	-	-	44	-	-	40	-	-	96
25	-	-	7	-	-	11	-	-	73
26	-	-	-	-	-	-	-	-	84
27	-	-	15	-	-	6	-	-	101
28	-	-	15	-	-	6	-	-	73
29	-	-	7	-	-	-	-	-	79
30	-	-	44	-	-	11	-	-	79
31	-	-	15	-	-	6	-	-	73
32	-	-	44	-	-	23	-	-	39
33	-	-	80	-	-	11	-	-	17
34	-	-	102	-	-	-	-	-	17
35	-	-	124	-	-	6	-	-	-
36	-	-	88	-	-	-	-	-	-
37	-	-	80	-	-	-	-	-	-
38	-	-	66	-	-	-	-	-	-
39	-	-	36	-	-	-	-	-	-
40	-	-	36	-	-	-	-	-	6
41	-	-	44	-	-	-	-	-	-
42	-	-	15	-	-	-	-	-	-
43	-	-	29	-	-	-	-	-	-
44	-	-	7	-	-	-	-	-	-
Total ‰	-	-	1001	-	-	998	-	-	1002
Serial Numbers	-	-	-	-	-	-	-	-	-
Number of Samples	-	-	1	-	-	1	-	-	1
Number of Fish Measured	-	-	137	-	-	174	-	-	178
Mean Length (cm)	-	-	-	-	-	-	-	-	-
Mean Weight (kg)	-	-	-	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	-	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	110-140	-	-	110-140	-	-	110-140
Range of Depths (fm)	-	-	>170	-	-	55-120	-	-	120-170

GEAR	Otter Trawl					
	(Research)					
CATCHES/LANDINGS	NK					
MONTH	April			April		
COUNTRY	France					
SPECIES OR TYPE	<i>S. mentella</i>					
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	850-1500					
7	-	-	77	-	-	6
8	-	-	83	-	-	-
9	-	-	78	-	-	6
10	-	-	32	-	-	6
11	-	-	30	-	-	-
12	-	-	42	-	-	-
13	-	-	53	-	-	-
14	-	-	84	-	-	-
15	-	-	67	-	-	13
16	-	-	94	-	-	13
17	-	-	102	-	-	25
18	-	-	77	-	-	82
19	-	-	45	-	-	45
20	-	-	44	-	-	32
21	-	-	34	-	-	6
22	-	-	20	-	-	83
23	-	-	1	-	-	19
24	-	-	3	-	-	51
25	-	-	7	-	-	45
26	-	-	5	-	-	83
27	-	-	3	-	-	121
28	-	-	3	-	-	108
29	-	-	5	-	-	70
30	-	-	1	-	-	89
31	-	-	1	-	-	32
32	-	-	3	-	-	25
33	-	-	1	-	-	25
34	-	-	1	-	-	-
35	-	-	-	-	-	6
36	-	-	-	-	-	-
37	-	-	-	-	-	-
38	-	-	-	-	-	6
Total ‰	-	-	1001	-	-	997
Serial Numbers	-	-	-	-	-	-
Number of Samples	-	-	1	-	-	1
Number of Fish Measured	-	-	758	-	-	159
Mean Length (cm)	-	-	-	-	-	-
Mean Weight (kg)	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	110-140	-	-	110-140
Range of Depths (fm)	-	-	50-100	-	-	100-150

TABLE 64 LENGTH FREQUENCIES - REDFISH - 3Pa - 1967

(FREQUENCIES IN %/OO - 1 CM GROUPS)

GEAR	Otter Trawl (Commercial)											
	Landings After Discards											
CATCHES/LANDINGS	March			April			April			September		
MONTH	Canada (Newfoundland)											
COUNTRY	<i>S. mentella</i>			NK			<i>S. mentella</i>			NK		
SPECIES OR TYPE	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
SEX	26-50			151-500			51-150			151-500		
TONNAGE												
18	-	-	-	-	-	-	3	-	3	-	-	-
19	-	-	-	-	-	-	3	-	3	1	-	1
20	-	-	-	3	-	3	-	-	-	3	1	4
21	-	-	-	10	3	13	10	3	13	3	-	3
22	-	-	-	6	13	19	-	13	13	1	4	5
23	-	-	-	3	10	13	-	6	6	3	3	6
24	17	-	17	25	29	54	10	10	20	3	1	4
25	23	-	23	25	19	44	13	23	36	4	3	7
26	26	3	29	45	35	80	23	32	55	26	10	36
27	35	20	55	76	57	133	23	35	58	41	14	55
28	49	15	64	48	67	115	55	23	78	40	21	61
29	55	26	81	70	38	108	32	26	58	88	14	102
30	32	17	49	41	51	92	23	39	62	114	22	136
31	55	26	81	41	73	114	19	51	70	99	25	124
32	58	20	78	25	57	82	51	39	90	64	37	101
33	41	52	93	13	19	32	48	29	77	36	48	84
34	29	64	93	3	13	16	39	29	68	27	45	72
35	35	78	113	3	19	22	42	35	77	8	26	34
36	17	47	64	3	22	25	16	23	39	32	10	42
37	6	41	47	-	16	16	19	29	48	19	10	29
38	12	35	47	-	3	3	-	42	42	18	5	23
39	-	20	20	-	6	6	3	19	22	10	15	25
40	-	17	17	-	-	-	-	23	23	1	7	8
41	-	12	12	-	-	-	-	10	10	-	15	15
42	-	6	6	-	6	6	-	23	23	-	11	11
43	-	3	3	-	-	-	-	6	6	-	8	8
44	-	3	3	-	-	-	-	-	-	-	4	4
45	-	-	-	-	-	-	-	3	3	-	-	-
46	-	3	3	-	-	-	-	-	-	-	-	-
Total %/oo	490	508	998	440	556	996	432	571	1003	641	359	1000
Serial Numbers	-	-	-	-	-	-	-	-	-	-	-	-
Number of Samples	-	-	1	-	-	1	-	-	-	-	-	3
Number of Fish Measured	169	175	344	139	175	314	134	177	311	469	261	730
Mean Length (cm)	30.48	34.58	32.51	28.09	29.72	29.00	30.72	32.52	31.74	30.86	33.26	31.72
Mean Weight (kg)	-	-	.389	-	-	.275	-	-	.395	-	-	.463
Total Weight Landed (tons)	-	-	28.3	-	-	468.5	-	-	120.9	-	-	476.7
Estimated Number Landed	-	-	72750	-	-	-1703636	-	-	306076	-	-	-1029589
Mesh(mm) or Hook(no.) Size	-	-	-	-	-	-	-	-	-	-	-	-
Range of Depths (fm)	-	-	90-140	-	-	-100-160	-	-	-110-140	-	-	-160-175

TABLE 64
(cont'd)

LENGTH FREQUENCIES - REDFISH - 3Ps - 1967

(FREQUENCIES IN % - 1 CM GROUPS)

GEAR	Otter Trawl								
	(Research)								
CATCHES/LANDINGS	NK			France			S. mentella		
MONTH	April			April			April		
COUNTRY	France			S. mentella			S. mentella		
SPECIES OR TYPE	S. mentella			S. mentella			S. mentella		
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	850-1500								
6	-	-	1	-	-	-	-	-	-
7	-	-	10	-	-	-	-	-	-
8	-	-	15	-	-	-	-	-	-
9	-	-	17	-	-	1	-	-	-
10	-	-	38	-	-	1	-	-	-
11	-	-	28	-	-	2	-	-	-
12	-	-	33	-	-	5	-	-	-
13	-	-	49	-	-	4	-	-	-
14	-	-	58	-	-	9	-	-	-
15	-	-	57	-	-	19	-	-	-
16	-	-	75	-	-	21	-	-	-
17	-	-	68	-	-	40	-	-	-
18	-	-	74	-	-	35	-	-	-
19	-	-	67	-	-	64	-	-	-
20	-	-	70	-	-	82	-	-	-
21	-	-	40	-	-	87	-	-	-
22	-	-	33	-	-	80	-	-	-
23	-	-	26	-	-	82	-	-	7
24	-	-	20	-	-	63	-	-	-
25	-	-	20	-	-	53	-	-	-
26	-	-	13	-	-	53	-	-	21
27	-	-	13	-	-	47	-	-	28
28	-	-	14	-	-	51	-	-	49
29	-	-	19	-	-	52	-	-	42
30	-	-	21	-	-	49	-	-	83
31	-	-	18	-	-	35	-	-	181
32	-	-	24	-	-	19	-	-	125
33	-	-	29	-	-	17	-	-	146
34	-	-	12	-	-	2	-	-	42
35	-	-	12	-	-	6	-	-	42
36	-	-	8	-	-	6	-	-	49
37	-	-	5	-	-	6	-	-	42
38	-	-	7	-	-	5	-	-	49
39	-	-	2	-	-	4	-	-	21
40	-	-	3	-	-	2	-	-	21
41	-	-	1	-	-	2	-	-	21
42	-	-	1	-	-	1	-	-	14
43	-	-	-	-	-	-	-	-	7
44	-	-	-	-	-	-	-	-	7
45	-	-	1	-	-	-	-	-	-
Total %/oo	-	-	1002	-	-	1001	-	-	1004
Serial Numbers	-	-	-	-	-	-	-	-	-
Number of Samples	-	-	8	-	-	8	-	-	1
Number of Fish Measured	-	-	1972	-	-	1835	-	-	144
Mean Length (cm)	-	-	-	-	-	-	-	-	-
Mean Weight (kg)	-	-	-	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	-	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	110-140	-	-	110-140	-	-	110-140
Range of Depths (fm)	-	-	50-100	-	-	100-150	-	-	>150

GEAR	Otter Trawl (Commercial)							
	August				September			
CATCHES/LANDINGS	Landings							
MONTH	August				September			
COUNTRY	Canada (Maritimes)							
SPECIES OR TYPE								
SEX	♂♂	♀♀	NK	Tot.	♂♂	♀♀	NK	Tot.
TONNAGE	151-500							
10	-	-	-	-	-	-	4	4
11	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	1	1
14	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	1	1
16	-	-	4	4	-	-	1	1
17	-	-	-	-	-	-	2	2
18	-	-	4	4	-	-	4	4
19	-	-	8	8	-	-	5	5
20	-	-	8	8	-	-	1	1
21	-	-	4	4	-	-	-	-
22	-	-	-	-	-	-	2	2
23	-	-	4	4	-	-	3	3
24	-	-	12	12	1	1	3	5
25	4	-	-	4	14	-	2	16
26	16	4	-	20	37	12	-	49
27	79	16	-	95	82	20	-	102
28	103	24	-	127	78	35	-	113
29	64	24	-	88	87	43	-	130
30	103	32	-	135	77	50	-	127
31	48	36	-	84	77	55	-	132
32	44	83	-	127	25	66	-	91
33	32	72	-	104	22	58	-	80
34	4	40	-	44	8	46	-	54
35	16	16	-	32	6	23	-	29
36	16	8	-	24	6	10	-	16
37	-	24	-	24	1	10	-	11
38	-	12	-	12	1	6	-	7
39	-	4	-	4	-	6	-	6
40	-	8	-	8	-	7	-	7
41	-	4	-	4	-	-	-	-
Total ‰	549	407	44	1000	522	448	29	999
Serial Numbers	-	-	-	180	-	-	-	181-183
Number of Samples	-	-	-	1	-	-	-	3
Number of Fish Measured	138	102	11	251	474	406	27	907
Mean Length (cm)	29.5	32.4	19.7	30.3	28.2	30.6	17.8	29.0
Mean Weight (kg)	-	-	-	0.38	-	-	-	0.36
Total Weight Landed (tons)	-	-	-	1042	-	-	-	852
Estimated Number Landed	-	-	-	2742105	-	-	-	2366667
Mesh(mm) or Hook(no.) Size	-	-	-	3.0 ¹	-	-	-	3.0 ¹
Range of Depths (fm)	-	-	-	130-150	-	-	-	130-150

1 inches

TABLE 65
(cont'd)

LENGTH FREQUENCIES - REDFISH - 4R - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl								
	(Commercial)			(Research)					
CATCHES/LANDINGS	Landings After Discards						NK		
MONTH	September			September			April		
COUNTRY	Canada (Newfoundland)						France		
SPECIES OR TYPE	NK						<i>S. mentella</i>		
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	501-900			151-500			850-1500		
5	-	-	-	-	-	-	-	-	6
6	-	-	-	-	-	-	-	-	2
7	-	-	-	-	-	-	-	-	40
8	-	-	-	-	-	-	-	-	74
9	-	-	-	-	-	-	-	-	27
10	-	-	-	-	-	-	-	-	15
11	-	-	-	-	-	-	-	-	13
12	-	-	-	-	-	-	-	-	25
13	-	-	-	-	-	-	-	-	27
14	-	-	-	-	-	-	-	-	47
15	2	-	2	-	-	-	-	-	70
16	-	-	-	-	-	-	-	-	93
17	2	-	2	-	2	2	-	-	99
18	-	-	-	-	-	-	-	-	123
19	-	4	4	2	2	4	-	-	108
20	-	2	2	-	3	3	-	-	70
21	2	-	2	-	-	-	-	-	57
22	-	-	-	2	2	4	-	-	42
23	2	-	2	-	2	2	-	-	21
24	-	6	6	2	-	2	-	-	23
25	11	2	13	24	12	36	-	-	6
26	27	13	40	55	31	86	-	-	8
27	49	30	79	85	85	170	-	-	-
28	53	34	87	77	75	152	-	-	-
29	38	59	97	50	85	135	-	-	-
30	61	23	84	48	60	108	-	-	2
31	40	55	95	26	82	108	-	-	-
32	17	95	112	9	62	71	-	-	-
33	11	110	121	10	50	60	-	-	-
34	6	86	92	5	15	20	-	-	-
35	8	27	35	-	14	14	-	-	-
36	8	8	16	7	10	17	-	-	-
37	11	8	19	2	2	4	-	-	-
38	4	19	23	-	3	3	-	-	-
39	2	19	21	-	2	2	-	-	-
40	-	17	17	-	-	-	-	-	-
41	-	13	13	-	-	-	-	-	-
42	-	8	8	-	-	-	-	-	-
43	-	4	4	-	-	-	-	-	-
44	-	2	2	-	-	-	-	-	-
Total ‰/‰	354	644	998	404	599	1003	-	-	998
Serial Numbers	-	-	-	-	-	-	-	-	-
Number of Samples	-	-	1	-	-	2	-	-	2
Number of Fish Measured	168	306	474	235	350	585	-	-	473
Mean Length (cm)	29.452	32.480	31.407	28.272	29.705	29.129	-	-	-
Mean Weight (kg)	-	-	.704	-	-	.281	-	-	-
Total Weight Landed (tons)	-	-	180.4	-	-	2059.4	-	-	-
Estimated Number Landed	-	-	256250	-	-	7328825	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	large	-	-	-	-	-	110-140
Range of Depths (fm)	-	-	125-160	-	-	125-140	-	-	55-170

TABLE 66 LENGTH FREQUENCIES - REDFISH - 4S - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl (Commercial)								
	Landings								
CATCHES/LANDINGS	July			August			October		
MONTH	Canada (Maritimes)								
COUNTRY	NK								
SPECIES OR TYPE	51-150								
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE									
18	-	-	-	7	-	7	-	-	-
19	-	-	-	7	-	7	-	-	-
20	-	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-	-
22	-	-	-	-	7	7	-	-	-
23	-	10	10	27	7	34	-	-	-
24	20	20	40	-	27	27	25	15	40
25	20	25	45	27	20	47	80	25	105
26	45	55	100	93	53	146	160	20	180
27	75	90	165	93	53	146	210	35	155
28	25	115	140	80	27	107	115	55	170
29	80	70	150	80	67	147	115	40	155
30	55	45	100	46	46	92	35	20	55
31	15	70	85	7	27	34	15	25	40
32	20	65	85	20	46	66	5	25	30
33	15	20	35	-	40	40	-	10	10
34	5	10	15	-	-	-	15	-	15
35	-	10	10	7	-	7	-	-	-
36	-	-	-	7	7	14	-	-	-
37	-	5	5	-	-	-	5	-	5
38	-	5	5	20	-	20	-	10	10
39	5	5	10	7	-	7	-	-	-
40	-	-	-	7	13	20	-	-	-
41	-	-	-	7	13	20	-	-	-
42	-	-	-	-	7	7	-	10	10
43	-	-	-	-	-	-	-	-	-
44	-	-	-	-	-	-	-	5	5
45	-	-	-	-	-	-	-	5	5
46	-	-	-	-	-	-	-	-	-
47	-	-	-	-	-	-	-	-	-
48	-	-	-	-	-	-	-	-	-
49	-	-	-	-	-	-	-	5	5
50	-	-	-	-	-	-	-	5	5
Total ‰/oo	380	620	1000	542	460	1002	690	310	1000
Serial Numbers	-	-	184	-	-	185	-	-	186
Number of Samples	-	-	1	-	-	1	-	-	1
Number of Fish Measured	76	124	200	81	69	150	138	62	200
Mean Length (cm)	28.4	29.0	28.8	28.4	29.5	29.0	27.4	30.3	28.3
Mean Weight (kg)	-	-	0.35	-	-	0.36	-	-	0.29
Total Weight Landed (tons)	-	-	3870	-	-	3815	-	-	3634
Estimated Number Landed	-	-	11057143	-	-	10597222	-	-	-12531034
Mesh(mm) or Hook(no.) Size	-	-	3.0 ¹	-	-	3.0 ¹	-	-	3.0 ¹
Range of Depths (fm)	-	-	130	-	-	130-140	-	-	140-150

¹ inches

GEAR	Otter Trawl		
	(Commercial)		
CATCHES/LANDINGS	Landings		
MONTH	September		
COUNTRY	Canada (Maritimes)		
SPECIES OR TYPE	NK		
SEX	♂	♀	Tot.
TONNAGE	51-150		
17	-	5	5
18	-	-	-
19	5	5	10
20	5	-	5
21	-	-	-
22	-	-	-
23	5	5	10
24	10	25	35
25	60	60	120
26	45	65	110
27	90	125	215
28	105	85	190
29	45	65	110
30	35	25	60
31	15	40	55
32	20	15	35
33	-	5	5
34	-	5	5
35	10	-	10
36	5	-	5
37	5	-	5
38	5	-	5
39	-	5	5
Total ‰	465	535	1000
Serial Numbers	-	-	187
Number of Samples	-	-	1
Number of Fish Measured	93	107	200
Mean Length (cm)	27.9	27.5	27.7
Mean Weight (kg)	-	-	0.29
Total Weight Landed (tons)	-	-	675
Estimated Number Landed	-	-	2327586
Mesh(mm) or Hook(no.) Size	-	-	3.0 ¹
Range of Depths (fm)	-	-	150-180

¹ Inches

TABLE 68

LENGTH FREQUENCIES - REDFISH - 4R, 4S and 4T

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl											
	(Commercial)											
CATCHES/LANDINGS	Landings											
MONTH	June			July			August			September		
COUNTRY	United States											
SPECIES OR TYPE	NK											
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	105-440											
17	3	-	3	-	-	-	-	-	-	-	-	-
18	-	2	2	-	-	-	1	-	1	-	-	-
19	-	-	-	2	-	2	-	-	-	-	-	-
20	-	-	-	1	2	3	-	-	-	-	-	-
21	2	-	2	-	1	1	-	-	-	-	-	-
22	3	2	5	2	2	4	-	1	1	-	3	3
23	13	7	20	10	6	16	7	-	7	3	3	6
24	37	37	73	30	14	44	20	7	27	13	10	23
25	58	62	120	72	45	117	62	29	91	57	27	84
26	85	77	162	103	65	168	72	64	136	57	73	130
27	93	67	160	120	70	190	97	70	167	73	67	140
28	68	85	153	77	54	131	84	70	154	80	60	140
29	60	57	117	64	55	119	57	59	116	77	67	144
30	40	55	95	37	45	82	62	54	116	63	47	110
31	18	28	47	11	44	55	17	72	89	43	73	116
32	5	12	17	6	27	33	1	39	40	7	57	64
33	3	7	10	2	15	17	4	14	18	10	7	17
34	2	3	5	2	6	8	6	7	13	3	7	10
35	-	2	2	1	4	5	4	3	7	7	3	10
36	2	5	7	-	1	1	4	-	4	-	-	-
37	-	-	-	-	-	-	3	3	6	-	-	-
38	-	2	2	-	1	1	-	4	4	-	-	-
39	-	-	-	-	1	1	-	3	3	-	3	3
40	-	-	-	-	-	-	-	-	-	-	-	-
41	-	-	-	-	1	1	-	-	-	-	-	-
42	-	-	-	-	-	-	-	-	-	-	-	-
43	-	-	-	1	-	1	-	-	-	-	-	-
Total ‰	493	507	1000	541	459	1000	501	499	1000	493	507	1000
Serial Numbers	-	-	-	-	-	-	-	-	-	-	-	-
Number of Samples	-	-	6	-	-	10	-	-	7	-	-	3
Number of Fish Measured	296	304	600	541	459	1000	351	349	700	148	152	300
Mean Length (cm)	27.06	27.62	27.34	27.06	28.24	27.60	27.66	28.90	28.28	28.10	28.73	28.42
Mean Weight (kg)	0.31	0.34	0.32	0.31	0.36	0.33	0.34	0.38	0.36	0.35	0.38	0.36
Total Weight Landed (tons)	717	785	1502	1537	1493	3030	1562	1770	3332	1104	1216	2320
Estimated Number Landed	22883 ¹	23501 ¹	46384 ¹	49202 ¹	41745 ¹	90947 ¹	46675 ¹	46409 ¹	93084 ¹	31615 ¹	32470 ¹	64085 ¹
Mesh(mm) or Hook(no.) Size	-	-	64	-	-	64	-	-	64	-	-	64
Range of Depths (fm)	-	-	-101-150	-	-	-101-150	-	-	-101-150	-	-	-101-150

¹ Numbers in 100's

TABLE 68
(cont'd)

LENGTH FREQUENCIES - REDFISH - 4R, 4S and 4T

(FREQUENCIES IN 0/00 - 1 CM GROUPS)

GEAR	Otter Trawl								
	(Commercial)								
CATCHES/LANDINGS	Landings								
MONTH	October			November			December		
COUNTRY	United States								
SPECIES OR TYPE	NK								
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	105-440								
17	2	-	2	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-
21	2	-	2	-	-	-	-	-	-
22	-	2	2	-	-	-	-	-	-
23	3	2	5	-	-	-	-	5	5
24	18	17	35	-	20	20	10	-	10
25	55	52	107	30	30	60	25	15	40
26	130	55	185	120	90	210	90	75	165
27	103	87	190	130	90	220	85	50	135
28	63	70	133	140	90	230	80	85	165
29	52	57	108	50	30	80	70	70	140
30	48	48	97	10	40	50	75	90	165
31	8	43	52	10	80	90	35	65	100
32	5	42	47	10	10	20	5	30	35
33	2	17	18	-	20	20	-	35	35
34	-	5	5	-	-	-	5	-	5
35	2	3	5	-	-	-	-	-	-
36	-	2	2	-	-	-	-	-	-
37	-	2	2	-	-	-	-	-	-
38	-	3	3	-	-	-	-	-	-
39	-	2	2	-	-	-	-	-	-
Total 0/00	493	507	1000	500	500	1000	480	520	1000
Serial Numbers	-	-	-	-	-	-	-	-	-
Number of Samples	-	-	6	-	-	1	-	-	2
Number of Fish Measured	296	304	600	50	50	100	96	104	200
Mean Length (cm)	27.12	28.45	27.79	27.36	28.10	27.73	27.99	28.90	28.46
Mean Weight (kg)	0.31	0.36	0.34	0.32	0.35	0.34	0.34	0.38	0.36
Total Weight Landed (tons)	1229	1471	2700	681	744	1425	535	639	1174
Estimated Number Landed	39228 ¹	40288 ¹	79516 ¹	21323 ¹	21323 ¹	42646 ¹	15581 ¹	16879 ¹	32460 ¹
Mesh(mm) or Hook(no.) Size	-	-	64	-	-	64	-	-	64
Range of Depths (fm)	-	-	101-150	-	-	101-150	-	-	101-150

¹ Numbers in 100's

TABLE 69

LENGTH FREQUENCIES - REDFISH - 4Vn - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl (Commercial)					
	Landings			Landings After Discards		
CATCHES/LANDINGS	August			November		
MONTH	Canada (Maritimes)			Canada (Newfoundland)		
COUNTRY	NK			NK		
SPECIES OR TYPE	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
SEX	151-500			501-900		
TONNAGE						
26	10	-	10	3	3	6
27	16	6	22	3	6	9
28	47	6	53	12	3	15
29	62	8	70	3	6	9
30	93	10	103	43	12	55
31	97	37	134	41	26	67
32	82	49	131	99	35	134
33	70	66	136	70	58	128
34	35	62	97	67	81	148
35	8	31	39	35	78	113
36	12	33	45	12	58	70
37	21	31	52	26	12	38
38	8	21	29	14	32	46
39	4	12	16	6	23	29
40	-	25	25	9	29	38
41	-	4	4	6	12	18
42	-	16	16	6	23	29
43	-	4	4	-	12	12
44	-	4	4	-	9	9
45	-	6	6	3	12	15
46	-	2	2	-	-	-
47	-	-	-	-	3	3
48	-	-	-	-	12	12
49	-	-	-	-	-	-
50	-	-	-	-	3	3
Total ‰/oo	565	433	998	458	548	1006
Serial Numbers	-	-	188-189	-	-	-
Number of Samples	-	-	2	-	-	1
Number of Fish Measured	275	211	486	157	188	345
Mean Length (cm)	31.3	34.9	32.8	33.350	36.047	34.820
Mean Weight (kg)	-	-	0.47	-	-	.652
Total Weight Landed (tons)	-	-	513	-	-	57.8
Estimated Number Landed	-	-	1091489	-	-	88650
Mesh(mm) or Hook(no.) Size	-	-	3.0 ¹	-	-	-
Range of Depths (fm)	-	-	200-250	-	-	210-225

1 inches

TABLE 70

LENGTH FREQUENCIES - REDFISH - 4Vs - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl (Research)					
CATCHES/LANDINGS	NK					
MONTH	April			April		
COUNTRY	France					
SPECIES OR TYPE	<i>S. mentella</i>					
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	850-1500					
7	-	-	1	-	-	-
8	-	-	-	-	-	8
9	-	-	1	-	-	5
10	-	-	2	-	-	4
11	-	-	1	-	-	3
12	-	-	2	-	-	9
13	-	-	11	-	-	11
14	-	-	37	-	-	2
15	-	-	34	-	-	6
16	-	-	68	-	-	17
17	-	-	65	-	-	40
18	-	-	106	-	-	65
19	-	-	124	-	-	75
20	-	-	105	-	-	101
21	-	-	85	-	-	63
22	-	-	44	-	-	57
23	-	-	24	-	-	21
24	-	-	25	-	-	16
25	-	-	11	-	-	15
26	-	-	33	-	-	25
27	-	-	24	-	-	24
28	-	-	37	-	-	47
29	-	-	28	-	-	56
30	-	-	35	-	-	56
31	-	-	26	-	-	59
32	-	-	25	-	-	50
33	-	-	14	-	-	44
34	-	-	11	-	-	25
35	-	-	9	-	-	28
36	-	-	7	-	-	21
37	-	-	4	-	-	13
38	-	-	2	-	-	11
39	-	-	2	-	-	13
40	-	-	4	-	-	5
41	-	-	2	-	-	3
42	-	-	1	-	-	1
43	-	-	-	-	-	1
44	-	-	2	-	-	1
Total ‰	-	-	1002	-	-	1001
Serial Numbers	-	-	-	-	-	-
Number of Samples	-	-	6	-	-	4
Number of Fish Measured	-	-	1138	-	-	1099
Mean Length (cm)	-	-	-	-	-	-
Mean Weight (kg)	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	110-140	-	-	110-140
Range of Depths (fm)	-	-	55-120	-	-	120-170

TABLE 71

LENGTH FREQUENCIES - REDFISH - 4V - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl		
CATCHES/LANDINGS	(Commercial)		
MONTH	Landings		
COUNTRY	February		
SPECIES OR TYPE	United States		
SEX	♂♂	NK	Tot.
TONNAGE		♀♀	
		73-440	
24	10	-	10
25	10	-	10
26	-	20	20
27	30	-	30
28	50	20	70
29	60	-	60
30	20	60	80
31	10	40	50
32	20	40	50
33	40	50	90
34	20	10	30
35	80	40	120
36	30	30	60
37	20	40	60
38	50	100	150
39	20	30	50
40	10	10	20
41	-	20	20
42	-	10	10
43	-	10	10
44	-	10	10
Total ‰	480	520	1000
Serial Numbers	-	-	-
Number of Samples	-	-	1
Number of Fish Measured	48	52	100
Mean Length (cm)	32.69	34.98	33.88
Mean Weight (kg)	0.56	0.68	0.62
Total Weight Landed (tons)	71	93	164
Estimated Number Landed	127000	137600	264700
Mesh(mm) or Hook(no.) Size	-	-	64
Range of Depths (fm)	-	-	201-300

GEAR	Otter Trawl		
CATCHES/LANDINGS	(Research)		
MONTH	NK		
COUNTRY	April		
SPECIES OR TYPE	France		
SEX	♂	♀	Tot.
TONNAGE	850-1500		
13	-	-	3
14	-	-	22
15	-	-	60
16	-	-	77
17	-	-	42
18	-	-	56
19	-	-	72
20	-	-	42
21	-	-	60
22	-	-	105
23	-	-	48
24	-	-	50
25	-	-	60
26	-	-	26
27	-	-	44
28	-	-	42
29	-	-	26
30	-	-	44
31	-	-	36
32	-	-	28
33	-	-	16
34	-	-	6
35	-	-	6
36	-	-	6
37	-	-	8
38	-	-	10
39	-	-	4
Total ‰	-	-	999
Serial Numbers	-	-	-
Number of Samples	-	-	2
Number of Fish Measured	-	-	499
Mean Length (cm)	-	-	-
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	-	-	-
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	110-140
Range of Depths (fm)	-	-	120-170

TABLE 73

LENGTH FREQUENCIES - REDFISH - 4X - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl (Commercial)											
	Landings											
CATCHES/LANDINGS	January			April			May			June		
MONTH	United States											
COUNTRY	NK											
SPECIES OR TYPE	NK											
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	51-440											
17	-	-	-	-	-	-	10	-	10	3	-	3
18	-	-	-	-	-	-	20	-	20	18	3	21
19	20	-	20	-	-	-	40	10	50	13	3	16
20	20	-	20	-	-	-	25	10	35	48	15	63
21	60	10	70	80	-	80	95	40	135	37	22	59
22	40	50	90	10	30	40	35	10	45	48	22	70
23	20	30	50	60	40	100	95	45	140	37	25	62
24	140	40	180	60	40	100	100	45	145	70	28	98
25	40	70	110	40	20	60	95	60	155	83	15	98
26	20	40	60	60	30	90	20	35	55	80	28	108
27	50	60	110	70	70	140	35	75	110	83	35	118
28	10	30	40	40	100	140	10	15	25	34	48	82
29	-	30	30	-	40	40	-	35	35	3	53	56
30	-	90	90	10	50	60	-	10	10	3	30	33
31	-	50	50	-	60	60	-	15	15	-	43	43
32	-	40	40	-	40	40	-	-	-	-	52	52
33	-	20	20	-	50	50	-	10	10	-	18	18
34	-	10	10	-	-	-	-	5	5	-	-	-
35	-	10	10	-	-	-	-	-	-	-	-	-
Total ‰	420	580	1000	430	570	1000	580	420	1000	560	440	1000
Serial Numbers	-	-	-	-	-	-	-	-	-	-	-	-
Number of Samples	-	-	1	-	-	2	-	-	2	-	-	4
Number of Fish Measured	42	58	100	116	84	200	116	84	200	225	175	400
Mean Length (cm)	23.55	27.52	25.85	22.86	25.48	23.96	22.86	25.48	23.96	24.07	27.33	25.50
Mean Weight (kg)	0.21	0.34	0.29	0.20	0.27	0.23	0.20	0.27	0.23	0.23	0.33	0.27
Total Weight Landed (tons)	147	328	475	193	194	387	193	194	387	367	425	792
Estimated Number Landed	7037 ¹	9717 ¹	16754 ¹	9988 ¹	7332 ¹	17220 ¹	9988 ¹	7332 ¹	17220 ¹	16273 ¹	12770 ¹	29043 ¹
Mesh(mm) or Hook(no.) Size	-	-	64	-	-	64	-	-	64	-	-	64
Range of Depths (fm)	-	-	61-100	-	-	61-100	-	-	61-100	-	-	61-100

¹ Numbers in 100's

TABLE 73
(cont'd)

LENGTH FREQUENCIES - REDFISH - 4X - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl (Commercial)					
	Landings					
CATCHES/LANDINGS	July			August		
MONTH	United States					
COUNTRY	NK					
SPECIES OR TYPE	51-400					
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE						
17	10	-	10	10	-	10
18	-	10	10	10	10	20
19	-	-	-	-	-	-
20	10	10	20	40	51	91
21	50	20	70	40	41	81
22	60	20	80	91	40	131
23	30	50	80	131	10	141
24	70	30	100	91	51	142
25	140	10	150	71	61	132
26	70	40	110	20	51	71
27	20	60	80	21	30	51
28	10	60	70	-	30	30
29	-	80	80	-	40	40
30	-	60	60	-	30	30
31	-	30	30	-	20	20
32	-	40	40	-	-	-
33	-	-	-	-	10	10
34	-	10	10	-	-	-
Total ‰	470	530	1000	525	475	1000
Serial Numbers	-	-	-	-	-	-
Number of Samples	-	-	1	-	-	1
Number of Fish Measured	47	53	100	53	47	100
Mean Length (cm)	23.94	27.11	25.62	22.94	25.09	23.96
Mean Weight (kg)	0.22	0.32	0.27	0.20	0.20	0.23
Total Weight Landed (tons)	58	96	154	54	65	119
Estimated Number Landed	263000	296600	559700	278700	251900	530600
Mesh(mm) or Hook(no.) Size	-	-	64	-	-	64
Range of Depths (fm)	-	-	61-100	-	-	61-100

TABLE 74

LENGTH FREQUENCIES - REDFISH - 5Y - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl (Commercial)											
	Landings											
CATCHES/LANDINGS	January			February			March			May		
MONTH	United States											
COUNTRY	NK											
SPECIES OR TYPE	NK											
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	0-310											
19	-	10	10	-	-	-	-	-	-	-	-	-
20	20	-	20	4	-	4	-	10	10	-	-	-
21	10	10	20	7	2	9	50	10	60	-	-	-
22	40	-	40	17	2	19	10	-	10	-	-	-
23	110	10	120	-	5	5	20	30	50	10	-	10
24	130	40	170	11	26	37	20	30	50	-	-	-
25	120	40	160	62	18	80	70	20	90	30	10	40
26	110	80	190	55	15	70	40	60	100	40	-	40
27	10	30	40	147	38	186	40	30	70	40	30	70
28	10	60	70	109	50	159	90	30	120	40	20	60
29	10	30	40	36	46	83	70	40	110	60	20	80
30	10	50	60	27	75	102	50	40	90	20	20	40
31	-	20	20	12	36	48	50	20	70	50	10	60
32	-	10	10	4	56	60	10	20	30	60	80	140
33	-	20	20	-	43	43	-	20	20	-	60	60
34	-	-	-	-	48	48	10	20	30	10	110	120
35	-	10	10	-	26	26	-	30	30	-	50	50
36	-	-	-	-	18	18	-	20	20	-	30	30
37	-	-	-	-	2	2	-	30	30	-	100	100
38	-	-	-	-	-	-	-	-	-	-	90	90
39	-	-	-	-	-	-	-	10	10	-	10	10
Total ‰	580	420	1000	491	509	1000	530	470	1000	360	640	1000
Serial Numbers	-	-	-	-	-	-	-	-	-	-	-	-
Number of Samples	-	-	1	-	-	2	-	-	1	-	-	1
Number of Fish Measured	58	42	100	106	94	200	53	47	100	36	64	100
Mean Length (cm)	24.38	27.33	25.62	26.93	30.17	28.57	27.06	29.28	28.10	28.81	33.95	32.10
Mean Weight (kg)	0.19	0.27	0.22	0.25	0.37	0.31	0.26	0.35	0.30	0.31	0.53	0.45
Total Weight Landed (tons)	33	35	68	166	251	417	256	302	558	219	632	851
Estimated Number Landed	1785 ¹	1292 ¹	3077 ¹	6640 ¹	6871 ¹	13511 ¹	9810 ¹	8699 ¹	18509 ¹	6837 ¹	12155 ¹	18992 ¹
Mesh(mm) or Hook(no.) Size	-	-	64	-	-	64	-	-	64	-	-	64
Range of Depths (fm)	-	-	61-100	-	-	61-100	-	-	61-100	-	-	61-100

¹ Numbers in 100's

TABLE 74
(cont'd)

LENGTH FREQUENCIES - REDFISH - 5Y - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl (Commercial)											
	Landings											
CATCHES/LANDINGS	June			July			August			November		
MONTH	United States											
COUNTRY	NK											
SPECIES OR TYPE	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
SEX	0-310											
TONNAGE												
18	3	-	3	-	-	-	-	-	-	-	-	-
19	5	-	5	-	2	2	-	-	-	-	-	-
20	3	5	8	3	2	5	17	-	17	-	-	-
21	22	10	32	15	8	23	10	10	20	-	-	-
22	20	13	33	18	8	26	33	30	63	40	-	40
23	25	17	42	32	18	50	37	43	80	30	10	40
24	48	17	65	25	27	52	58	30	88	60	30	90
25	57	25	82	40	33	73	30	37	67	100	30	130
26	67	20	87	77	40	117	43	37	80	100	50	150
27	75	38	113	84	35	119	40	37	77	60	50	110
28	52	50	102	47	38	85	50	23	73	50	30	80
29	45	30	75	43	63	106	40	43	83	60	80	140
30	28	48	77	30	58	88	37	70	107	30	100	130
31	22	63	85	18	48	66	27	63	90	10	20	30
32	10	45	55	3	50	53	20	53	73	-	30	30
33	2	28	30	2	28	30	3	33	36	-	30	30
34	2	32	33	2	30	32	-	23	23	-	-	-
35	-	17	17	3	17	20	-	13	13	-	-	-
36	-	23	23	-	13	13	-	10	10	-	-	-
37	-	17	17	-	17	17	-	-	-	-	-	-
38	-	8	8	-	8	8	-	-	-	-	-	-
39	-	7	7	-	12	12	-	-	-	-	-	-
40	-	2	2	-	3	3	-	-	-	-	-	-
Total ‰	485	515	1000	442	558	1000	445	555	1000	540	460	1000
Serial Numbers	-	-	-	-	-	-	-	-	-	-	-	-
Number of Samples	-	-	6	-	-	6	-	-	3	-	-	1
Number of Fish Measured	291	309	600	265	335	600	133	167	300	54	46	100
Mean Length (cm)	26.25	29.87	28.12	26.54	29.65	28.28	26.33	28.47	27.52	26.07	28.43	27.16
Mean Weight (kg)	0.24	0.36	0.30	0.24	0.35	0.30	0.24	0.31	0.28	0.23	0.30	0.26
Total Weight Landed (tons)	392	621	1013	268	494	762	181	294	475	202	227	429
Estimated Number Landed	16262 ¹	17268 ¹	33529 ¹	10986 ¹	13888 ¹	24874 ¹	7524 ¹	9447 ¹	16971 ¹	8805 ¹	7504 ¹	16309 ¹
Mesh(mm) or Hook(no.) Size	-	-	64	-	-	64	-	-	64	-	-	64
Range of Depths (fm)	-	-	61-100	-	-	61-100	-	-	61-100	-	-	61-100

¹ Numbers in 100's

TABLE 75 LENGTH FREQUENCIES - REDFISH - 52 - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl								
	(Commercial)								
CATCHES/LANDINGS	Landings								
MONTH	April			May			June		
COUNTRY	United States								
SPECIES OR TYPE									
SEX	♂♂	♀♀	Tot.	♂♂	NK ♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	0-310								
19	-	-	-	3	-	3	-	-	-
20	-	-	-	13	-	13	20	-	20
21	-	-	-	13	3	17	-	-	-
22	-	-	-	7	3	10	20	-	20
23	-	10	10	23	10	33	30	10	40
24	10	-	10	23	20	43	60	20	80
25	-	20	20	73	37	110	50	40	90
26	50	10	60	70	33	103	110	30	140
27	70	20	90	107	17	123	100	80	180
28	30	30	60	93	33	127	60	50	110
29	80	30	110	50	57	107	20	40	60
30	20	90	110	20	83	103	20	70	90
31	20	100	120	27	57	83	10	60	70
32	10	80	90	3	37	40	-	10	10
33	-	80	80	3	27	30	10	10	20
34	-	80	80	-	17	17	-	30	30
35	10	50	60	-	20	20	-	10	10
36	-	30	30	-	3	3	-	20	20
37	-	50	50	-	10	10	-	-	-
38	-	20	20	-	3	3	-	10	10
Total ‰	300	700	1000	530	470	1000	510	490	1000
Serial Numbers	-	-	-	-	-	-	-	-	-
Number of Samples	-	-	1	-	-	3	-	-	1
Number of Fish Measured	30	70	100	159	141	300	51	49	100
Mean Length (cm)	28.27	32.00	30.88	26.59	29.48	27.95	26.04	29.16	27.57
Mean Weight (kg)	0.29	0.43	0.39	0.24	0.34	0.29	0.23	0.33	0.28
Total Weight Landed (tons)	140	476	616	638	775	1413	71	97	168
Estimated Number Landed	4705 ¹	10977 ¹	15682 ¹	25847 ¹	22921 ¹	48768 ¹	3071 ¹	2951 ¹	6021 ¹
Mesh(mm) or Hook(no.) Size	-	-	64	-	-	64	-	-	64
Range of Depths (fm)	-	-	61-100	-	-	61-100	-	-	61-100

¹ Numbers in 100's

GEAR		Otter Trawl (Research)												
CATCHES/LANDINGS		Catches												
MONTH		March						May						
COUNTRY		USSR												
SPECIES OR TYPE		<i>S. mentella</i>												
TONNAGE		3500												
YEAR-CLASS	AGE	‰ Frequency			Mean Length			‰ Frequency			Mean Length			
		♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	
1962	5	-	3	3	-	23.00	23.00	-	-	-	-	-	-	-
1961	6	3	38	41	23.00	25.63	25.41	-	-	-	-	-	-	-
1960	7	97	111	208	25.75	26.28	26.03	-	-	-	-	-	-	-
1959	8	73	93	166	26.29	27.74	27.10	-	7	7	-	27.00	27.00	-
1958	9	80	65	145	27.73	29.53	28.71	-	-	-	-	-	-	-
1957	10	69	48	117	29.70	31.00	30.22	-	-	-	-	-	-	-
1956	11	34	48	82	30.90	32.78	32.00	13	13	26	30.50	32.50	31.50	-
1955	12	27	48	75	32.38	33.79	33.25	7	53	60	31.00	33.62	33.33	-
1954	13	24	21	45	34.57	35.67	35.08	13	46	59	31.00	35.00	34.11	-
1953	14	17	17	34	36.20	36.60	36.40	7	-	7	37.00	-	37.00	-
1952	15	7	10	17	36.50	38.33	37.60	40	20	60	35.83	37.33	36.33	-
1951	16	10	14	24	36.67	38.75	37.86	33	26	59	36.80	39.23	37.90	-
1950	17	-	3	3	-	40.00	40.00	20	13	33	38.33	39.00	38.60	-
1949	18	3	7	10	38.00	40.00	39.33	26	-	26	38.50	-	38.50	-
1948	19	-	-	-	-	-	-	33	40	73	40.40	42.50	41.54	-
1947	20	-	-	-	-	-	-	13	46	59	40.50	43.33	42.75	-
1946	21	-	7	7	-	43.50	43.50	7	60	67	40.00	46.00	45.40	-
1945	22	3	10	13	44.00	44.00	44.00	-	126	126	-	46.56	46.56	-
1944	23	3	7	10	45.00	46.50	46.00	-	93	93	-	47.78	47.78	-
1943	24	-	-	-	-	-	-	-	119	119	-	48.06	48.06	-
1942	25	-	-	-	-	-	-	-	40	40	-	49.00	49.00	-
1941	26	-	-	-	-	-	-	-	60	60	-	50.00	50.00	-
1940	27	-	-	-	-	-	-	-	26	26	-	49.75	49.75	-
Total ‰		450	550	1000				212	788	1000				
Serial Numbers		-	-	-				-	-	-				
Number of Samples		-	-	1				-	-	1				
Number of Fish Aged		131	160	291				32	119	151				
Mean Age		9.81	10.05	9.94				16.34	20.73	19.80				
Mean Weight (kg)		-	-	-				-	-	-				
Total Weight Landed (tons)		-	-	274				-	-	21				
Estimated Number Landed		-	-	-				-	-	-				
Mesh(mm) or Hook(no.) Size		-	-	110				-	-	110				
Range of Depths (fm)		-	-	-232-254				-	-	-227-243				

TABLE 77

AGE FREQUENCIES - REDFISH - 3K - 1967

(FREQUENCIES IN ‰)

GEAR		Otter Trawl					
CATCHES/LANDINGS		(Research)					
MONTH		Catches					
COUNTRY		April					
SPECIES OR TYPE		USSR					
TONNAGE		<i>S. mentella</i>					
		1800					
YEAR-CLASS	AGE	‰ Frequency			Mean Length		
		‰	‰	Tot.	‰	‰	Tot.
1958	9	4	-	4	29.00	-	29.00
1957	10	-	8	8	-	30.00	30.00
1956	11	4	12	16	33.00	31.00	31.50
1955	12	8	4	12	33.00	32.00	32.67
1954	13	4	8	12	34.00	35.50	35.00
1953	14	12	8	20	35.67	36.50	36.00
1952	15	30	12	42	35.75	37.33	36.18
1951	16	30	19	49	36.25	40.00	37.70
1950	17	35	12	47	37.55	40.33	38.25
1949	18	8	19	27	39.50	38.40	38.71
1948	19	16	35	51	39.25	43.00	41.85
1947	20	12	66	78	39.00	42.53	42.00
1946	21	4	112	116	39.00	44.10	43.93
1945	22	-	143	143	-	45.68	45.68
1944	23	-	201	201	-	46.42	46.42
1943	24	-	108	108	-	47.40	47.40
1942	25	-	50	50	-	48.54	48.54
1941	26	-	12	12	-	49.67	49.67
1940	27	-	4	4	-	51.00	51.00
Total ‰		167	833	1000			
Serial Numbers		-	-	-			
Number of Samples		-	-	1			
Number of Fish Aged		43	215	258			
Mean Age		16.11	21.47	20.58			
Mean Weight (kg)		-	-	-			
Total Weight Landed (tons)		-	-	40			
Estimated Number Landed		-	-	-			
Mesh(mm) or Hook(no.) Size		-	-	110			
Range of Depths (fm)		-	-	162-170			

TABLE 78

AGE FREQUENCIES - REDFISH - 3L - 1967

(FREQUENCIES IN ‰)

GEAR		Otter Trawl					
CATCHES/LANDINGS		(Research)					
MONTH		Catches					
COUNTRY		January					
SPECIES OR TYPE		USSR					
TONNAGE		<i>S. mentella</i>					
		1800					
YEAR-CLASS	AGE	‰ Frequency			Mean Length		
		♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
1957	10	-	11	11	-	32.00	32.00
1956	11	-	11	11	-	33.00	33.00
1955	12	4	40	44	33.00	34.00	34.00
1954	13	4	11	15	34.00	34.67	34.50
1953	14	7	18	25	34.50	36.40	35.86
1952	15	22	51	73	36.67	37.64	37.35
1951	16	37	44	81	37.40	39.50	38.54
1950	17	48	37	85	38.15	40.20	39.04
1949	18	62	62	124	39.06	40.82	39.94
1948	19	37	120	157	40.50	41.81	41.50
1947	20	10	73	83	41.00	42.45	42.26
1946	21	15	62	77	42.00	47.47	43.19
1945	22	4	81	85	44.00	44.50	44.50
1944	23	40	48	88	44.00	45.23	44.67
1943	24	15	15	30	44.25	46.75	45.50
1942	25	-	11	11	-	48.67	48.67
Total ‰		305	695	1000			
Serial Numbers		-	-	-			
Number of Samples		-	-	1			
Number of Fish Aged		83	189	272			
Mean Age		18.49	18.52	18.51			
Mean Weight (kg)		0.961	1.223	1.143			
Total Weight Landed (tons)		-	-	50			
Estimated Number Landed		-	-	43744			
Mesh(mm) or Hook(no.) Size		-	-	110			
Range of Depths (fm)		-	-	241-278			

TABLE 79

AGE FREQUENCIES - REDFISH - 3M - 1967

(FREQUENCIES IN ‰/oo)

GEAR		Otter Trawl (Research)					
CATCHES/LANDINGS		Catches					
MONTH		January					
COUNTRY		USSR					
SPECIES OR TYPE		<i>S. mantella</i>					
TONNAGE		1800					
YEAR-CLASS	AGE	‰/oo Frequency			Mean Length		
		♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
1958	9	4	2	6	33.50	35.00	34.00
1957	10	9	4	13	32.40	34.00	32.86
1956	11	37	20	57	33.25	34.09	33.90
1955	12	101	74	175	34.00	35.55	34.66
1954	13	101	80	181	34.90	36.63	35.67
1953	14	70	107	177	35.60	37.43	36.71
1952	15	35	98	133	36.95	38.47	38.07
1951	16	24	82	106	37.85	39.23	38.91
1950	17	11	43	54	38.33	40.61	40.14
1949	18	5	30	35	39.00	41.44	41.05
1948	19	4	22	26	41.50	42.36	42.23
1947	20	2	5	7	42.00	43.00	42.75
1946	21	-	15	15	-	44.87	44.87
1945	22	-	15	15	-	46.00	46.00
Total ‰/oo		403	597	1000			
Serial Numbers		-	-	-			
Number of Samples		-	-	2			
Number of Fish Aged		217	322	539			
Mean Age		13.26	14.94	14.25			
Mean Weight (kg)		0.507	0.684	0.610			
Total Weight Landed (tons)		-	-	35			
Estimated Number Landed		-	-	57377			
Mesh(mm) or Hook(no.) Size		-	-	110			
Range of Depths (fm)		-	-	319-338			

TABLE 80

AGE/LENGTH KEYS AND FREQUENCIES (REDFISH) - 1967

(Available on request from the Secretariat)

In accordance with an recommendation made by the Research and Statistics Committee at their Annual Meeting in 1962 and reaffirmed in 1965, 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	March May
3K	April
3L	January
3M	January

TABLE 81: LENGTH FREQUENCIES - SILVER HAKE- 4W - 1967

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	Otter Trawl (Commercial)	
	CATCHES/LANDINGS	
MONTH	Catches	
COUNTRY	April	May
TONNAGE	USSR	
	Over 1800	
20	-	+
22	3	1
24	7	7
26	57	99
28	273	298
30	297	271
32	163	179
34	90	64
36	33	44
38	37	19
40	27	11
42	3	5
44	10	1
46	-	1
48	-	-
50	-	-
52	-	+
Total ‰	1000	1000
Serial Numbers		
Number of Samples	1	11
Number of Fish Measured	300	3337
Mean Length (cm)	31.29	30.68
Mean Weight (kg)	0.212	0.216
Total Weight Landed (tons)	12	350
Estimated Number Landed		
Mesh(mm) or Hook(no.) Size	40	40
Range of Depths (fm)	95-110	55-115

GEAR	Otter Trawl (Commercial)			
	Landings			
CATCHES/LANDINGS	June	July	August	September
MONTH	United States			
COUNTRY	0-150			
TONNAGE				
16	7	-	1	-
18	-	-	1	-
20	94	-	-	4
22	110	2	2	13
24	73	1	1	2
26	33	6	8	33
28	56	79	74	54
30	217	332	320	225
32	230	331	340	336
34	90	162	164	218
36	38	30	43	61
38	15	18	28	22
40	23	10	3	11
42	-	4	1	-
44	7	4	7	4
46	3	5	7	7
48	-	3	2	2
50	3	3	1	2
52	-	3	1	2
54	-	2	-	-
56	-	2	1	-
58	-	2	-	2
60	-	1	-	-
62	-	1	-	2
Total ‰	1000	1000	1000	1000
Serial Numbers	-	-	-	-
Number of Samples	3	12	9	4
Number of Fish Measured	314	1349	1007	432
Mean Length (cm)	29.51	32.59	32.43	32.70
Mean Weight (kg)	0.20	0.24	0.22	0.24
Total Weight Landed (tons)	1179	11176	8279	2813
Estimated Number Landed	5778 ¹	45567 ¹	37579 ¹	119065 ¹
Mesh(mm) or Hook(no.) Size	64	64	64	64
Range of Depths (fm)	35-40	28-70	20-75	30-80

¹ Numbers in 100's

TABLE 83 LENGTH FREQUENCIES - SILVER HAKE - 52 - 1967

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	Otter Trawl (Commercial)					
	Catches					
CATCHES/LANDINGS	January	February	March	April	May	June
MONTH	USSR					
COUNTRY	Over 1800					
TONNAGE						
6	-	2	-	-	-	-
8	-	52	-	-	-	-
10	-	70	-	-	-	-
12	+	19	-	-	-	-
14	+	21	-	-	-	-
16	+	7	-	-	-	-
18	+	15	-	-	-	-
20	3	38	-	+	-	-
22	23	31	6	3	-	-
24	47	46	44	49	25	10
26	116	97	106	145	157	67
28	227	216	241	331	303	397
30	230	194	258	264	235	327
32	176	126	161	149	160	114
34	69	35	67	42	53	40
36	38	12	64	10	15	13
38	20	8	32	2	12	13
40	14	6	9	3	7	13
42	11	2	3	1	18	3
44	5	1	3	-	10	-
46	6	1	-	-	2	-
48	7	1	-	-	3	3
50	5	-	3	-	-	-
52	2	-	-	1	-	-
54	1	+	-	-	-	-
56	+	-	-	-	-	-
58	-	-	-	-	-	-
60	-	-	3	-	-	-
Total ‰	1000	1000	1000	1000	1000	1000
Serial Numbers	-	-	-	-	-	-
Number of Samples	11	12	1	8	2	1
Number of Fish Measured	3362	3611	341	2509	400	300
Mean Length (cm)	30.83	25.9	30.83	29.52	30.34	30.2
Mean Weight (kg)	0.211	0.154	0.212	0.178	0.206	0.200
Total Weight Landed (tons)	724	5918	7840	10288	1949	377
Estimated Number Landed	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	40	40	40	40	40	40
Range of Depths (fm)	105-165	40-145	105-110	50-140	65-135	50-75

TABLE 83
(Cont'd)

LENGTH FREQUENCIES - SILVER HAKE - SZ - 1967

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	Otter Trawl (Commercial)					
	Catches					
CATCHES/LANDINGS	July	August	September	October	November	December
MONTH	USSR					
COUNTRY	Over 1800					
TONNAGE						
16	-	-	1	-	-	-
18	-	1	2	-	2	+
20	-	-	6	1	17	6
22	1	3	7	8	67	47
24	3	10	18	21	184	140
26	38	37	43	40	356	235
28	195	94	117	100	218	176
30	350	248	232	234	93	112
32	272	279	260	262	27	69
34	102	232	188	197	21	72
36	25	66	85	90	12	63
38	6	21	22	29	3	34
40	3	7	11	9	+	16
42	3	1	6	4	+	11
44	+	1	1	2	-	6
46	2	-	1	2	-	5
48	-	-	+	1	-	3
50	-	-	+	+	-	3
52	-	-	+	+	-	1
54	-	-	+	+	-	1
56	-	-	-	-	-	+
Total ‰	1000	1000	1000	1000	1000	1000
Serial Numbers	-	-	-	-	-	-
Number of Samples	5	3	23	25	5	43
Number of Fish Measured	1752	1000	6213	7471	1500	12930
Mean Length (cm)	31.18	32.2	32.0	32.2	27.0	29.6
Mean Weight (kg)	0.226	0.251	0.242	0.263	0.136	0.215
Total Weight Landed (tons)	2352	2126	3771	2708	357	609
Estimated Number Landed	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	40	40	40	40	40	40
Range of Depths (fm)	40-85	20-55	10-50	10-70	30-130	25-150

TABLE 84

AGE FREQUENCIES - SILVER HAKE - 4W - 1967

(FREQUENCIES IN ‰)

GEAR		Otter Trawl (Commercial)												
CATCHES/LANDINGS		Catches												
MONTH		April						May						
COUNTRY		USSR												
TONNAGE		Over 1800												
YEAR-CLASS	AGE	‰ Frequency			Mean Length			‰ Frequency			Mean Length			
		88	90	Tot.	88	90	Tot.	88	90	Tot.	88	90	Tot.	
1965	2	13	-	13	22.5	-	22.5	-	-	-	-	-	-	-
1964	3	105	13	118	27.3	26.5	27.2	69	33	102	28.2	29.3	28.6	
1963	4	238	144	382	30.3	30.9	30.5	288	265	553	30.3	31.3	30.8	
1962	5	66	263	329	33.3	37.0	36.3	102	182	284	33.6	35.1	34.6	
1961	6	-	158	158	-	40.7	40.7	-	51	51	-	39.6	39.6	
1960	7	-	-	-	-	-	-	-	5	5	-	44.5	44.5	
1959	8	-	-	-	-	-	-	-	-	-	-	-	-	
1958	9	-	-	-	-	-	-	-	5	5	-	58.5	58.5	
Total ‰		422	578	1000				459	341	1000				
Serial Numbers		-	-	-				-	-	-				
Number of Samples		-	-	1				-	-	3				
Number of Fish Aged		32	44	76				99	116	215				
Mean Age		3.85	4.98	4.50				4.07	4.54	4.30				
Mean Weight (kg)		-	-	0.270				-	-	0.220				
Total Weight Landed (tons)		-	-	12				-	-	350				
Estimated Number Landed		-	-	-				-	-	-				
Mesh(mm) or Hook(no.) Size		-	-	40				-	-	40				
Range of Depths (fm)		-	-	-95-110				-	-	55-115				

GEAR		Otter Trawl											
CATCHES/LANDINGS		(Commercial)											
MONTH		June					July						
COUNTRY		United States											
TONNAGE		0-150											
YEAR-CLASS	AGE	%/oo Frequency			Mean Length			%/oo Frequency			Mean Length		
		♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
1966	1	-	-	-	-	-	-	1	-	1	22.50	-	22.50
1965	2	11	-	11	26.50	-	26.50	32	7	39	27.91	28.52	28.02
1964	3	126	-	126	27.05	-	27.05	30	31	61	29.67	32.24	30.97
1963	4	160	209	369	30.05	32.85	31.83	188	163	351	30.68	32.67	31.60
1962	5	26	232	258	32.80	33.10	33.07	251	176	427	31.42	33.67	32.35
1961	6	113	7	120	31.44	38.50	31.83	29	24	53	32.21	36.18	34.01
1960	7	30	46	76	33.03	40.21	37.44	4	25	29	34.50	40.05	39.36
1959	8	22	13	35	32.50	38.50	34.74	2	23	25	34.50	43.89	43.11
1958	9	5	-	5	36.50	-	36.50	-	7	7	-	46.53	46.53
1957	10	-	-	-	-	-	-	-	4	4	-	46.82	46.82
1956	11	-	-	-	-	-	-	-	3	3	-	51.23	51.23
Total %/oo		493	507	1000				537	463	1000			
Serial Numbers		-	-	-				-	-	-			
Number of Samples		2	2	2				14	14	14			
Number of Fish Aged		10	8	18				136	153	289			
Mean Age		4.62	4.86	4.74				4.43	4.92	4.66			
Mean Weight (kg)		0.15	0.25	0.20				0.20	0.29	0.24			
Total Weight Landed (tons)		405	774	1179				4999	6177	11176			
Estimated Number Landed ¹		7007	30780	57787				244819	210853	455672			
Mesh(mm) or Hook(no.) Size		-	-	64				-	-	64			
Range of Depths (fm)		-	-	35-40				-	-	28-70			

¹ Numbers in 100's

TABLE 85
(Cont'd)

AGE FREQUENCIES - SILVER HAKE - 5Y AND 5Z - 1967

(FREQUENCIES IN ‰)

GEAR		Otter Trawl (Commercial)											
CATCHES/LANDINGS		Catches											
MONTH		August						September					
COUNTRY		United States											
TONNAGE		0-150											
YEAR-CLASS	AGE	‰ Frequency			Mean Length			‰ Frequency			Mean Length		
		00	01	Tot.	00	01	Tot.	00	01	Tot.	00	01	Tot.
1966	1	-	1	1	22.50	18.50	19.65	7	-	7	21.50	-	21.50
1965	2	31	7	38	27.97	28.07	27.99	51	15	66	26.58	26.93	26.64
1964	3	28	35	63	26.36	32.36	29.67	19	32	51	29.86	32.61	31.57
1963	4	166	206	372	29.39	32.69	31.22	39	175	314	30.92	32.99	22.06
1962	5	201	216	417	30.99	33.69	32.39	208	222	430	31.64	34.69	32.91
1961	6	21	29	50	32.15	35.83	34.30	28	32	60	32.51	35.94	34.35
1960	7	4	24	28	34.70	38.17	37.72	4	31	35	35.08	38.66	38.23
1959	8	2	21	23	34.68	41.54	40.93	2	22	24	35.02	41.38	40.76
1958	9	-	5	5	-	41.77	41.77	-	7	7	-	42.68	42.68
1957	10	-	2	2	-	43.71	43.71	-	4	4	-	46.93	46.93
1956	11	-	1	1	-	44.15	44.15	-	2	2	-	57.44	57.44
Total ‰		453	547	1000				458	542	1000			
Serial Numbers		-	-	-				-	-	-			
Number of Samples		11	11	11				4	4	4			
Number of Fish Aged		120	110	230				40	57	97			
Mean Age		4.38	4.77	4.60				4.31	4.88	4.62			
Mean Weight (kg)		0.18	0.25	0.22				0.19	0.28	0.24			
Total Weight Landed (tons)		3062	5217	8279				1039	1774	2813			
Estimated Number Landed 169960 ¹		205836 ¹	375796 ¹					54437 ¹	64628 ¹	119065 ¹			
Mesh(mm) or Hook(no.) Size		-	-	64				-	-	64			
Range of Depths (fm)		-	-	20-75				-	-	30-80			

¹ Numbers in 100's

GEAR		Otter Trawl (Commercial)											
CATCHES/LANDINGS		Catches											
MONTH		January						March					
COUNTRY		USSR											
TONNAGE		Over 1800											
YEAR-CLASS	AGE	%/oo Frequency			Mean Length			%/oo Frequency			Mean Length		
		♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
1966	1	-	-	-	-	-	-	-	-	-	-	-	-
1965	2	137	77	214	22.7	23.1	22.9	60	15	75	24.0	22.5	23.7
1964	3	159	77	236	26.3	27.1	26.5	193	149	342	26.2	26.3	26.2
1963	4	99	88	187	28.7	30.0	29.3	165	225	390	29.4	30.4	30.0
1962	5	22	121	143	33.5	36.4	36.0	15	89	104	32.5	34.8	34.5
1961	6	-	160	160	-	39.4	39.4	-	74	74	-	39.7	39.7
1960	7	-	33	33	-	47.2	47.2	-	15	15	-	38.5	38.5
1959	8	-	22	22	-	50.5	50.5	-	-	-	-	-	-
1958	9	-	-	-	-	-	-	-	-	-	-	-	-
1957	10	-	5	5	-	60.5	60.5	-	-	-	-	-	-
Total %/oo		417	583	1000				433	567	1000			
Serial Numbers		-	-	-				-	-	-			
Number of Samples		-	-	2				-	-	1			
Number of Fish Aged		76	106	182				29	38	67			
Mean Age		3.01	4.73	4.02				3.31	4.20	3.81			
Mean Weight (kg)		-	-	0.211				-	-	0.178			
Total Weight Landed (tons)		-	-	724				-	-	7840			
Estimated Number Landed		-	-	-				-	-	-			
Mesh(mm) or Hook(no.) Size		-	-	40				-	-	40			
Range of Depths (fm)		-	-	-105-165				-	-	-105-110			

TABLE 86
(Cont'd)

AGE FREQUENCIES - SILVER HAKE - 5Z - 1967

(FREQUENCIES IN ‰)

GEAR		Otter Trawl (Commercial)											
CATCHES/LANDINGS		Catches											
MONTH		April						July					
COUNTRY		USSR											
TONNAGE		Over 1800											
YEAR-CLASS	AGE	‰ Frequency			Mean Length			‰ Frequency			Mean Length		
		‰	‰	Tot.	‰	‰	Tot.	‰	‰	Tot.	‰	‰	Tot.
1966	1	-	-	-	-	-	-	-	-	-	-	-	-
1965	2	6	12	18	24.5	24.5	24.5	-	-	-	-	-	-
1964	3	181	76	257	28.3	28.9	28.4	199	64	263	28.9	30.5	29.3
1963	4	306	254	560	30.4	31.7	31.0	232	353	588 ¹	30.7	32.3	31.7
1962	5	35	124	159	33.2	33.6	33.5	-	141	141	-	35.2	35.2
1961	6	-	6	6	-	38.5	38.5	-	8	8	-	42.5	42.5
Total ‰		528	472	1000				431	566	1000 ¹			
Serial Numbers		-	-	-				-	-	-			
Number of Samples		-	-	3				-	-	4 ¹			
Number of Fish Aged		90	80	170				156	205	362			
Mean Age		3.70	4.08	3.88				3.54	4.16	3.89			
Mean Weight (kg)		-	-	0.210				-	-	0.240			
Total Weight Landed (tons)		-	-	10288				-	-	2352			
Estimated Number Landed		-	-	-				-	-	-			
Mesh(mm) or Hook(no.) Size		-	-	40				-	-	40			
Range of Depths (fm)		-	-	50-140				-	-	40-85			

¹ Totals include 1 juvenile = 3‰

TABLE 86
(Cont'd)

AGE FREQUENCIES - SILVER HAKE - 5Z - 1967

(FREQUENCIES IN ‰)

GEAR		Otter Trawl (Commercial)											
CATCHES/LANDINGS		Catches											
MONTH		August					September						
COUNTRY		USSR											
TONNAGE		Over 1800											
YEAR-CLASS	AGE	‰ Frequency			Mean Length			‰ Frequency			Mean Length		
		♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
1966	1	4	-	4	23.5	-	23.5	9	9	65 ¹	21.5	22.5	21.0
1965	2	2	2	4	24.5	26.5	25.5	19	11	32 ¹	25.8	24.9	25.4
1964	3	177	152	329	29.2	30.6	29.8	205	152	357	28.8	30.2	29.4
1963	4	106	346	452	30.9	33.0	32.5	85	306	391	31.1	32.7	32.4
1962	5	12	177	189	32.8	35.6	35.4	2	132	134	34.5	35.7	35.7
1961	6	-	16	16	-	40.7	40.7	-	19	19	-	38.1	38.1
1960	7	-	2	2	-	48.5	48.5	-	2	2	-	46.5	46.5
1959	8	-	4	4	-	52.5	52.5	-	-	-	-	-	-
Total ‰		301	699	1000				320	631	1000 ¹			
Serial Numbers		-	-	-				-	-	-			
Number of Samples		-	-	7				-	-	6 ¹			
Number of Fish Aged		153	355	508				150	295	468 ¹			
Mean Age		3.40	4.11	3.89				3.16	3.96	3.56			
Mean Weight (kg)		-	-	0.251				-	-	0.237			
Total Weight Landed (tons)		-	-	2126				-	-	3771			
Estimated Number Landed		-	-	-				-	-	-			
Mesh(mm) or Hook(no.) Size		-	-	40				-	-	40			
Range of Depths (fm)		-	-	20-55				-	-	30-40			

¹ Totals include 1 juvenile = 49 ‰

TABLE 87 AGE/LENGTH KEYS AND FREQUENCIES (SILVER HAKE) - 1967

(Available on request from the Secretariat)

In accordance with an recommendation made by the Research and Statistics Committee at their Annual Meeting in 1962 and reaffirmed in 1965, 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	April May
5Z	January March April July August September

GEAR	Otter Trawl (Commercial)		
CATCHES/LANDINGS	Catches		
MONTH	May		
COUNTRY	Poland		
SEX	♂	♀	Tot.
TONNAGE	2800		
17	-	-	4
18	-	-	2
19	-	-	4
20	-	-	2
21	-	-	-
22	-	-	4
23	-	-	1
24	-	-	4
25	-	-	14
26	-	-	16
27	-	-	16
28	-	-	35
29	-	-	76
30	-	-	94
31	-	-	54
32	-	-	67
33	-	-	45
34	-	-	40
35	-	-	34
36	-	-	24
37	-	-	42
38	-	-	26
39	-	-	28
40	-	-	18
41	-	-	14
42	-	-	17
43	-	-	29
44	-	-	23
45	-	-	23
46	-	-	24
47	-	-	20
48	-	-	34
49	-	-	22
50	-	-	27
51	-	-	23
52	-	-	21
53	-	-	18
54	-	-	9
55	-	-	18
56	-	-	14
57-59	-	-	14
Total ‰	-	-	1000
Serial Numbers	-	-	-
Number of Samples	-	-	2
Number of Fish Measured	-	-	1112
Mean Length (cm)	-	-	37.7
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	-	-	-
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	114
Range of Depths (fm)	-	-	450

GEAR	Otter Trawl											
	(Commercial)											
	Landings After Discards											
	April			May			May			September		
CATCHES/LANDINGS	Canada (Newfoundland)											
MONTH												
COUNTRY												
SEX	♂	♀	Tot.	♂	♀	Tot.	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	501-900			501-900			151-500			151-500		
27	2	-	2	-	-	-	-	-	-	-	-	-
28	-	-	-	2	-	2	-	-	-	-	-	-
29	-	-	-	-	-	-	2	-	-	-	-	-
30	2	3	5	-	-	-	2	5	7	-	-	-
31	3	3	6	-	-	-	7	-	7	5	2	7
32	7	-	7	2	-	2	21	5	26	3	10	13
33	3	-	3	7	4	11	16	7	23	5	5	10
34	14	7	21	18	2	20	21	9	30	13	8	21
35	21	9	30	26	4	30	18	9	27	5	10	15
36	35	10	45	16	7	23	21	11	32	15	8	23
37	23	5	28	36	9	45	27	2	29	10	10	20
38	40	19	59	58	16	74	48	16	64	23	18	41
39	43	21	64	51	13	64	57	5	62	28	8	36
40	68	26	94	57	13	70	36	2	38	5	23	28
41	47	28	75	49	22	71	57	-	57	13	23	36
42	57	24	81	47	27	74	55	9	64	15	15	30
43	52	24	76	47	27	74	66	21	87	23	18	41
44	50	12	62	36	15	51	41	14	55	26	18	44
45	43	23	66	35	29	64	32	27	59	23	10	33
46	23	21	44	27	27	54	36	16	52	13	23	36
47	14	17	31	22	33	55	30	14	44	26	18	44
48	9	31	40	20	13	53	23	18	41	29	28	57
49	7	14	21	7	22	29	5	23	28	10	41	51
50	3	16	19	-	22	22	5	25	30	8	28	36
51	-	24	24	-	16	16	-	18	18	3	52	55
52	-	12	12	-	13	13	-	30	30	-	36	36
53	-	10	10	-	13	13	-	11	11	-	41	41
54	-	5	5	-	18	18	-	16	16	-	49	49
55	-	19	19	-	15	15	-	9	9	-	28	28
56	-	16	16	-	11	11	-	18	18	-	31	31
57	-	5	5	-	7	7	-	5	5	-	26	26
58	-	2	2	-	9	9	-	11	11	-	23	23
59	-	2	2	-	7	7	-	5	5	-	23	23
60	-	9	9	-	7	7	-	7	7	-	13	13
61	-	2	2	-	2	2	-	2	2	-	18	18
62	-	2	2	-	5	5	-	2	2	-	8	8
63	-	3	3	-	-	-	-	-	-	-	3	3
64	-	-	-	-	2	2	-	-	-	-	3	3
65	-	-	-	-	2	2	-	-	-	-	8	8
66	-	-	-	-	-	-	-	-	-	-	8	8
67	-	-	-	-	-	-	-	-	-	-	8	8
68	-	2	2	-	2	2	-	2	2	-	3	3
69	-	3	3	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-	-	-	-
71	-	-	-	-	-	-	-	-	-	-	-	-
72	-	-	-	-	-	-	-	-	-	-	-	-
73	-	2	2	-	-	-	-	-	-	-	-	-
Total ‰	566	431	997	563	434	997	626	376	1002	301	697	998
Serial Numbers	-	-	-	-	-	-	-	-	-	-	-	-
Number of Samples	-	-	2	-	-	2	-	-	2	-	-	1
Number of Fish Measured	326	249	575	310	238	548	274	165	439	117	271	388
Mean Length (cm)	40.82	46.17	43.14	40.85	47.23	43.62	40.75	47.28	43.20	42.13	49.83	47.40
Mean Weight (kg)	-	-	.822	-	-	.828	-	-	.752	-	-	1.245
Total Weight Landed (tons)	-	-	1339.7	-	-	3460.8	-	-	4269.9	-	-	412.2
Estimated Number Landed	-	-	1629805	-	-	4179710	-	-	5678059	-	-	331084
Mesh(mm) or Hook(no.) Size	-	-	L ¹	-	-	L ¹	-	-	L ¹	-	-	L ¹
Range of Depths (fm)	-	-	24-80	-	-	40-50	-	-	40-50	-	-	90-160

1 large

TABLE 89
(Cont'd)

LENGTH FREQUENCIES - AMERICAN PLAICE - 3L - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl					
	(Commercial)					
CATCHES/LANDINGS	Landings			Discards		
MONTH	September			November		
COUNTRY	Canada (Newfoundland)					
SEX	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	501-900					
28	1	-	1	-	-	-
29	1	-	1	-	-	-
30	-	2	2	-	-	-
31	1	2	3	-	1	1
32	1	2	3	-	-	-
33	4	4	8	1	1	2
34	6	6	12	9	2	11
35	11	8	19	7	7	14
36	8	12	20	15	6	21
37	15	11	26	20	11	31
38	20	11	31	21	14	35
39	22	13	35	29	18	47
40	20	12	32	30	17	47
41	21	21	42	29	19	48
42	23	19	42	27	30	57
43	31	18	49	23	28	51
44	38	16	54	36	24	60
45	28	25	53	22	34	56
46	30	32	62	23	26	49
47	23	33	56	24	32	56
48	16	26	42	13	38	51
49	14	38	52	15	49	64
50	8	42	50	7	29	36
51	4	38	42	3	37	40
52	2	41	44	1	33	34
53	-	36	36	-	31	31
54	-	31	31	1	31	32
55	1	28	29	-	21	21
56	-	23	23	-	20	20
57	-	22	22	-	17	17
58	-	18	18	-	15	15
59	-	17	17	-	17	17
60	-	12	12	-	7	7
61	-	6	6	-	7	7
62	-	9	9	-	6	6
63	-	4	4	-	6	6
64	-	4	4	-	7	7
65	-	3	3	-	-	-
66	-	1	1	-	1	1
67	-	1	1	-	1	1
68	-	1	1	-	1	1
69	-	-	-	-	1	1
70	-	-	-	-	-	-
71	-	-	-	-	-	-
72	-	-	-	-	1	1
Total ‰	349	648	997	356	646	1002
Serial Numbers	-	-	-	-	-	-
Number of Samples	-	-	8	-	-	6
Number of Fish Measured	943	1763	2706	437	792	1229
Mean Length (cm)	42.55	49.21	46.89	42.20	48.82	46.47
Mean Weight (kg)	-	-	1.147	-	-	1.046
Total Weight Landed (tons)	-	-	1197.6	-	-	1688.4
Estimated Number Landed	-	-	1044115	-	-	1614149
Mesh(mm) or Hook(no.) Size	-	-	L ¹	-	-	L ¹
Range of Depths (fm)	-	-	20-160	-	-	50-125

1 large

TABLE 89
(Cont'd)

LENGTH FREQUENCIES - AMERICAN PLAICE - 3L - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl					
	(Research)					
CATCHES/LANDINGS	Catches					
MONTH	June			July		
COUNTRY	Poland			July		
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	796					
17	-	-	22	-	-	10
18	-	-	7	-	-	3
19	-	-	13	-	-	6
20	-	-	6	-	-	8
21	-	-	7	-	-	8
22	-	-	13	-	-	8
23	-	-	20	-	-	10
24	-	-	13	-	-	8
25	-	-	18	-	-	17
26	-	-	29	-	-	23
27	-	-	29	-	-	31
28	-	-	56	-	-	18
29	-	-	38	-	-	25
30	-	-	47	-	-	39
31	-	-	64	-	-	45
32	-	-	58	-	-	40
33	-	-	56	-	-	57
34	-	-	40	-	-	44
35	-	-	40	-	-	55
36	-	-	63	-	-	57
37	-	-	46	-	-	62
38	-	-	32	-	-	45
39	-	-	34	-	-	45
40	-	-	28	-	-	57
41	-	-	28	-	-	44
42	-	-	32	-	-	36
43	-	-	20	-	-	28
44	-	-	14	-	-	20
45	-	-	16	-	-	29
46	-	-	26	-	-	18
47	-	-	11	-	-	24
48	-	-	7	-	-	19
49	-	-	11	-	-	6
50	-	-	11	-	-	10
51	-	-	5	-	-	7
52	-	-	9	-	-	7
53	-	-	6	-	-	9
54	-	-	4	-	-	6
55	-	-	2	-	-	4
56	-	-	5	-	-	4
57	-	-	-	-	-	-
58	-	-	-	-	-	-
59	-	-	-	-	-	-
60	-	-	18	-	-	13
Total ‰	-	-	1004	-	-	1005
Serial Numbers	-	-	-	-	-	-
Number of Samples	-	-	1	-	-	3
Number of Fish Measured	-	-	971	-	-	3002
Mean Length (cm)	-	-	34.8	-	-	36.3
Mean Weight (kg)	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	45	-	-	45
Range of Depths (fm)	-	-	93-109	-	-	101-109

GEAR	Otter Trawl (Commercial)											
	Landings After Discards											
CATCHES/LANDINGS	January			January			February			February		
MONTH	Canada (Newfoundland)											
COUNTRY	Tot.			Tot.			Tot.			Tot.		
BLX	00	00	00	00	00	00	00	00	00	00	00	00
TONNAGE	501-900			151-500			501-900			151-500		
26	-	-	-	-	-	-	-	-	-	2	2	4
27	-	-	-	-	-	-	-	-	-	2	-	2
28	-	-	-	-	-	-	-	-	-	6	2	8
29	-	-	-	-	9	9	-	-	-	-	-	-
30	-	-	-	-	4	4	-	-	-	8	2	10
31	3	-	3	4	9	13	-	-	-	12	2	14
32	-	-	-	4	4	8	-	-	-	22	16	38
33	-	-	-	22	13	35	5	5	10	12	14	26
34	3	-	3	31	13	44	9	-	9	26	22	48
35	3	5	8	27	13	40	5	-	5	18	22	40
36	-	3	3	22	40	62	9	18	27	36	26	62
37	11	8	19	27	27	54	9	9	18	28	26	54
38	11	14	25	49	18	67	23	9	32	34	16	50
39	8	16	24	31	4	35	27	-	27	18	16	34
40	33	-	33	44	18	62	27	18	45	30	14	44
41	36	8	44	31	9	40	27	9	36	22	18	40
42	30	11	41	27	13	40	18	14	32	34	10	44
43	41	5	46	13	27	40	23	23	46	28	10	38
44	25	5	30	36	27	63	55	27	82	26	14	40
45	58	14	72	40	22	62	37	32	69	34	14	48
46	71	27	98	18	22	40	46	23	69	46	16	62
47	36	25	61	31	27	58	27	23	50	38	16	54
48	47	22	69	18	18	36	41	41	82	50	8	58
49	44	22	66	4	9	13	37	32	69	18	16	34
50	11	27	38	9	27	36	14	37	51	22	22	44
51	5	27	32	9	27	36	5	27	32	2	-	2
52	3	27	30	4	13	17	-	9	9	4	16	20
53	-	30	30	-	4	4	5	37	42	4	6	10
54	-	22	22	-	13	13	-	32	32	-	10	10
55	-	36	36	-	13	13	-	32	32	-	4	4
56	-	30	30	-	18	18	-	23	23	-	2	2
57	-	27	27	-	4	4	-	18	18	-	10	10
58	-	22	22	-	9	9	-	5	5	-	10	10
59	-	19	19	-	9	9	-	9	9	-	16	16
60	-	8	8	-	13	13	-	14	14	-	4	4
61	-	11	11	-	-	-	-	5	5	-	4	4
62	-	14	14	-	-	-	-	5	5	-	6	6
63	-	11	11	-	-	-	-	-	-	-	4	4
64	-	3	3	-	-	-	-	9	9	-	4	4
65	-	8	8	-	-	-	-	-	-	-	4	4
66	-	5	5	-	-	-	-	-	-	-	-	-
67	-	3	3	-	-	-	-	5	5	-	-	-
68	-	-	-	-	-	-	-	-	-	-	-	-
69	-	3	3	-	-	-	-	5	5	-	-	-
Total %/oo	479	518	997	501	496	997	449	555	1004	582	424	1006
Serial Numbers	-	-	-	-	-	-	-	-	-	-	-	-
Number of Samples	-	-	2	-	-	1	-	-	1	-	-	2
Number of Fish Measured	174	190	364	113	112	225	98	121	219	291	212	503
Mean Length (cm)	44.48	51.72	48.26	40.72	44.46	42.58	43.70	49.40	46.85	41.30	44.20	42.52
Mean Weight (kg)	-	-	1.261	-	-	.806	-	-	1.025	-	-	.793
Total Weight Landed (tons)	-	-	1138.4	-	-	684.7	-	-	625.1	-	-	607.0
Estimated Number Landed	-	-	902776	-	-	849504	-	-	609854	-	-	765447
Mesh(mm) or Hook(no.) Size	-	-	-	-	-	L ¹	-	-	-	-	-	L ¹
Range of Depths (fm)	-	-	40-120	-	-	33-50	-	-	45	-	-	60-130

1 Large

TABLE 90
(Cont'd)

LENGTH FREQUENCIES - AMERICAN PLAICE - 3N - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl											
	(Commercial)						(Research)					
CATCHES/LANDINGS	Landings After Discards									Catches		
MONTH	March			March			September			October		
COUNTRY	Canada (Newfoundland)									Poland		
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	501-900			151-500			501-900			796		
17	-	-	-	-	3	3	-	-	-	-	-	-
22	-	-	-	3	-	3	-	-	-	-	-	-
23-27	-	-	-	-	-	-	-	-	-	-	-	19
24	2	-	2	-	3	3	-	-	-	-	-	-
25	2	2	4	3	-	3	-	2	2	-	-	-
26	2	2	4	9	-	9	2	-	2	-	-	-
27	4	6	10	3	9	12	-	-	-	-	-	-
28	10	6	16	11	28	39	-	-	-	-	-	14
29	8	10	18	28	28	56	-	-	-	-	-	16
30	6	6	12	11	9	20	-	-	-	-	-	43
31	10	8	18	37	34	71	-	-	-	-	-	33
32	10	13	23	45	26	71	-	2	2	-	-	38
33	15	25	40	26	20	46	6	2	8	-	-	66
34	21	31	52	26	43	69	4	-	4	-	-	64
35	40	38	78	20	43	63	4	4	8	-	-	69
36	25	42	67	23	23	46	11	-	11	-	-	64
37	25	29	54	26	31	57	11	-	11	-	-	38
38	38	48	86	54	45	99	4	17	21	-	-	47
39	29	50	79	26	28	54	13	4	17	-	-	21
40	23	31	54	14	20	34	15	13	28	-	-	43
41	23	25	48	23	31	54	36	11	47	-	-	30
42	23	34	57	20	14	34	17	8	25	-	-	36
43	23	34	57	9	23	32	44	17	61	-	-	24
44	10	12	22	6	11	17	23	23	46	-	-	44
45	8	23	31	9	11	20	42	17	59	-	-	40
46	10	25	35	9	-	9	44	36	80	-	-	21
47	8	17	25	-	11	11	34	19	53	-	-	14
48	2	13	15	-	9	9	17	36	53	-	-	47
49	8	15	23	-	9	9	15	42	57	-	-	19
50	-	8	8	-	14	14	13	50	63	-	-	21
51	-	8	8	-	11	11	8	29	37	-	-	9
52	-	6	6	-	6	6	2	29	31	-	-	14
53	-	6	6	-	6	6	2	38	40	-	-	9
54	-	6	6	-	3	3	-	29	29	-	-	12
55	-	6	6	-	-	-	-	40	40	-	-	24
56	-	2	2	-	3	3	-	38	38	-	-	2
57	-	4	4	-	-	-	-	29	29	-	-	12
58	-	8	8	-	-	-	-	29	29	-	-	9
59	-	4	4	-	3	3	-	19	19	-	-	16
60	-	-	-	-	-	-	-	13	13	-	-	9
61	-	2	2	-	-	-	-	11	11	-	-	2
62	-	-	-	-	3	3	-	11	11	-	-	-
63	-	-	-	-	3	3	-	2	2	-	-	2
64	-	-	-	-	-	-	-	2	2	-	-	-
65	-	-	-	-	-	-	-	6	6	-	-	7
66	-	-	-	-	-	-	-	4	4	-	-	2
67	-	-	-	-	-	-	-	-	-	-	-	-
68	-	-	-	-	-	-	-	2	2	-	-	-
Total ‰	385	605	990	441	564	1005	367	634	1001	-	-	1000
Serial Numbers	-	-	-	-	-	-	-	-	-	-	-	-
Number of Samples	-	-	2	-	-	1	-	-	2	-	-	1
Number of Fish Measured	186	291	477	154	198	352	174	302	476	-	-	423
Mean Length (cm)	37.74	40.37	39.34	35.34	37.77	36.71	43.63	50.95	48.28	-	-	40.3
Mean Weight (kg)	-	-	.554	-	-	.515	-	-	1.243	-	-	-
Total Weight Landed (tons)	-	-	327.1	-	-	816.6	-	-	370.2	-	-	-
Estimated Number Landed	-	-	590433	-	-	-1585631	-	-	297828	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	L ¹	-	-	L ¹	-	-	L ¹	-	-	45
Range of Depths (fm)	-	-	30-65	-	-	62-75	-	-	32-120	-	-	66

¹ Large

GEAR	Otter Trawl								
	(Commercial)								
CATCHES/LANDINGS	Landings After Discards								
MONTH	February			April			June		
COUNTRY	Canada (Newfoundland)								
SEX	♂	♀	Tot.	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	151-500								
22	-	-	-	-	-	-	3	-	3
23	-	-	-	-	-	-	-	-	-
24	-	-	-	4	-	4	-	-	-
25	-	-	-	4	4	8	-	-	-
26	-	4	4	-	-	-	-	-	-
27	-	-	-	4	4	8	3	-	3
28	4	7	11	4	8	12	3	3	6
29	4	4	8	23	8	31	11	14	25
30	11	7	18	19	12	31	19	19	38
31	9	20	29	16	19	35	17	19	36
32	27	31	58	8	19	27	33	25	58
33	38	29	67	19	16	35	30	36	66
34	20	65	85	31	23	54	25	55	80
35	34	47	81	39	39	78	50	36	86
36	34	43	77	39	27	66	19	47	66
37	25	52	77	19	31	50	17	41	58
38	20	52	72	31	47	78	25	83	108
39	13	18	31	27	31	58	6	36	42
40	13	29	42	23	16	39	17	22	39
41	16	31	47	28	27	55	8	28	36
42	11	16	27	19	16	35	11	22	33
43	13	20	33	16	31	47	8	14	22
44	4	7	11	16	12	28	8	22	30
45	7	25	32	16	19	35	6	25	31
46	4	27	31	8	8	16	6	14	20
47	4	16	20	12	8	20	-	3	3
48	4	16	20	8	16	24	-	3	3
49	-	11	11	12	4	16	-	11	11
50	2	9	11	-	27	27	-	6	6
51	2	9	11	4	16	20	-	17	17
52	-	7	7	-	8	8	-	14	14
53	-	7	7	8	16	24	-	3	3
54	-	4	4	-	8	8	-	8	8
55	-	9	9	-	4	4	-	6	6
56	-	13	13	-	4	4	-	3	3
57	-	2	2	-	4	4	-	11	11
58	-	7	7	-	-	-	-	6	6
59	-	9	9	-	-	-	-	8	8
60	-	7	7	-	4	4	-	6	6
61	-	4	4	-	4	4	-	8	8
62	-	-	-	-	-	-	-	6	6
63	-	4	4	-	-	-	-	-	-
64	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
66	-	4	4	-	-	-	-	-	-
67	-	-	-	-	-	-	-	-	-
68	-	-	-	-	-	-	-	-	-
69	-	-	-	-	-	-	-	-	-
70	-	2	2	-	4	4	-	-	-
71	-	-	-	-	-	-	-	3	3
72	-	-	-	-	-	-	-	-	-
73	-	-	-	-	-	-	-	-	-
74	-	-	-	-	4	4	-	-	-
Total ‰	319	674	993	457	548	1005	325	683	1008
Serial Numbers	-	-	-	-	-	-	-	-	-
Number of Samples	-	-	2	-	-	1	-	-	2
Number of Fish Measured	144	301	445	117	140	257	117	246	363
Mean Length (cm)	36.72	40.62	39.36	37.80	40.91	39.50	35.38	38.19	38.65
Mean Weight (kg)	-	-	.611	-	-	.520	-	-	.598
Total Weight Landed (tons)	-	-	386.8	-	-	20.9	-	-	442.8
Estimated Number Landed	-	-	633061	-	-	40192	-	-	740468
Mesh(mm) or Hook(no.) Size	-	-	L ¹	-	-	4 3/4 ²	-	-	L ¹
Range of Depths (fm)	-	-	55-120	-	-	85-95	-	-	35-65

1 Large
2 Inches

TABLE 91
(Cont'd)

LENGTH FREQUENCIES - AMERICAN PLAICE - 30 - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl (Research)					
	March			April		
CATCHES/LANDINGS	NK					
MONTH	France			France		
COUNTRY	France			France		
SEX	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	850-1500					
10	-	-	1	-	-	-
11	-	-	1	-	-	-
12	-	-	-	-	-	-
13	-	-	1	-	-	-
14	-	-	5	-	-	11
15	-	-	11	-	-	-
16	-	-	21	-	-	-
17	-	-	24	-	-	11
18	-	-	15	-	-	8
19	-	-	5	-	-	27
20	-	-	13	-	-	8
21	-	-	18	-	-	34
22	-	-	18	-	-	65
23	-	-	16	-	-	23
24	-	-	34	-	-	73
25	-	-	51	-	-	80
26	-	-	47	-	-	57
27	-	-	50	-	-	50
28	-	-	47	-	-	50
29	-	-	57	-	-	42
30	-	-	58	-	-	34
31	-	-	64	-	-	61
32	-	-	93	-	-	34
33	-	-	55	-	-	34
34	-	-	59	-	-	19
35	-	-	41	-	-	38
36	-	-	38	-	-	27
37	-	-	30	-	-	34
38	-	-	26	-	-	11
39	-	-	11	-	-	23
40	-	-	12	-	-	19
41	-	-	11	-	-	8
42	-	-	14	-	-	8
43	-	-	13	-	-	19
44	-	-	5	-	-	8
45	-	-	5	-	-	-
46	-	-	6	-	-	27
47	-	-	6	-	-	19
48	-	-	2	-	-	11
49	-	-	3	-	-	4
50	-	-	3	-	-	-
51	-	-	3	-	-	11
52	-	-	1	-	-	4
53	-	-	-	-	-	-
54	-	-	2	-	-	-
55	-	-	1	-	-	4
56	-	-	1	-	-	-
57	-	-	-	-	-	-
58	-	-	-	-	-	4
Total ‰	-	-	1001	-	-	1000
Serial Numbers	-	-	-	-	-	-
Number of Samples	-	-	5	-	-	4
Number of Fish Measured	-	-	930	-	-	262
Mean Length (cm)	-	-	-	-	-	-
Mean Weight (kg)	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	-	-	-	-
Estimated Number Landed	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	140-110	-	-	140-110
Range of Depths (fm)	-	-	55-170	-	-	55-170

GEAR	Otter Trawl		
	(Research)		
CATCHES/LANDINGS	NK		
MONTH	April		
COUNTRY	France		
SEX	♂	♀	Tot.
TONNAGE	850-1500		
10	-	-	1
11	-	-	2
12	-	-	2
13	-	-	6
14	-	-	13
15	-	-	15
16	-	-	17
17	-	-	20
18	-	-	26
19	-	-	29
20	-	-	42
21	-	-	68
22	-	-	75
23	-	-	63
24	-	-	69
25	-	-	74
26	-	-	52
27	-	-	42
28	-	-	38
29	-	-	34
30	-	-	36
31	-	-	33
32	-	-	28
33	-	-	24
34	-	-	24
35	-	-	23
36	-	-	16
37	-	-	24
38	-	-	15
39	-	-	16
40	-	-	12
41	-	-	11
42	-	-	7
43	-	-	5
44	-	-	5
45	-	-	4
46	-	-	4
47	-	-	4
48	-	-	5
49	-	-	2
50	-	-	2
51	-	-	1
52	-	-	1
53	-	-	1
54	-	-	-
55	-	-	2
56	-	-	1
57	-	-	1
58	-	-	1
59	-	-	1
60	-	-	1
61	-	-	1
63	-	-	1
Total ‰	-	-	1000
Serial Numbers	-	-	-
Number of Samples	-	-	10
Number of Fish Measured	-	-	1644
Mean Length (cm)	-	-	-
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	-	-	-
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	140-110
Range of Depths (fm)	-	-	28-170

TABLE 93 LENGTH FREQUENCIES - AMERICAN PLAICE - 4T - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl		
CATCHES/LANDINGS	(Commercial)		
MONTH	Landings		
COUNTRY	November		
SEX	Canada (Maritimes)		
TONNAGE	♂	♀	Tot.
	51-150		
26	-	5	5
27	-	-	-
28	25	-	25
29	15	10	25
30	40	20	60
31	30	35	65
32	75	35	110
33	70	60	130
34	40	70	110
35	50	50	100
36	25	50	75
37	25	45	70
38	35	20	55
39	10	10	20
40	10	20	30
41	5	5	10
42	5	5	10
43	5	15	20
44	-	5	5
45	-	10	10
46	5	25	30
47	-	-	-
48	-	5	5
49	-	5	5
50	5	-	5
51	-	-	-
52	-	5	5
53	5	-	5
54	-	-	-
55	-	-	-
56	-	-	-
57	-	5	5
58	-	-	-
59	-	-	-
60	-	-	-
61	-	-	-
62	-	5	5
Total ‰	480	520	1000
Serial Numbers	-	-	190
Number of Samples	-	-	1
Number of Fish Measured	96	104	200
Mean Length (cm)	34.2	36.5	35.4
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	-	-	296
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	4.5 ¹
Range of Depths (fm)	-	-	50-60

¹ inches

TABLE 94

LENGTH FREQUENCIES - AMERICAN PLAICE - 4V₈ - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl								
	(Commercial)								
CATCHES/LANDINGS	Landings								
MONTH	February			March			March		
COUNTRY	Canada (Maritimes)			Canada (Newfoundland)					
SEX	♂	♀	Tot.	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	151-500						501-900		
24	-	-	-	-	-	-	4	-	4
29	-	-	-	-	-	-	-	4	4
30	15	-	15	-	-	-	4	-	4
31	15	-	15	-	-	-	8	-	8
32	23	-	23	-	-	10	-	-	-
33	45	7	52	-	-	10	-	-	-
34	38	-	38	-	-	15	12	8	20
35	38	7	45	-	-	10	33	8	41
36	38	7	45	-	-	15	16	4	20
37	68	7	75	-	-	45	29	4	33
38	98	15	113	-	-	55	45	20	65
39	45	38	83	-	-	35	29	16	45
40	23	15	38	-	-	40	73	8	81
41	68	15	83	-	-	25	45	16	61
42	53	68	121	-	-	65	61	8	69
43	7	15	22	-	-	65	24	12	36
44	7	30	37	-	-	65	41	8	49
45	23	-	23	-	-	50	41	24	65
46	7	15	22	-	-	35	41	12	53
47	7	30	37	-	-	50	20	8	28
48	-	23	23	-	-	25	37	8	45
49	-	15	15	-	-	40	29	12	41
50	-	23	23	-	-	55	20	8	28
51	-	7	7	-	-	30	4	20	24
52	-	-	-	-	-	25	4	33	37
53	-	7	7	-	-	25	4	12	16
54	-	15	15	-	-	30	-	29	29
55	-	-	-	-	-	40	-	8	8
56	-	7	7	-	-	40	-	16	16
57	-	-	-	-	-	15	-	12	12
58	-	-	-	-	-	15	-	20	20
59	-	-	-	-	-	10	-	12	12
60	-	15	15	-	-	20	-	-	-
61	-	-	-	-	-	15	-	-	-
62	-	-	-	-	-	10	-	4	4
63	-	-	-	-	-	-	-	8	8
64	-	-	-	-	-	-	-	4	4
65	-	-	-	-	-	15	-	-	-
66	-	-	-	-	-	-	-	-	-
67	-	-	-	-	-	-	-	-	-
68	-	-	-	-	-	-	-	-	-
69	-	-	-	-	-	-	-	4	4
Total ‰	618	381	999	-	-	1000	624	370	994
Serial Numbers	-	-	191	-	-	192	-	-	-
Number of Samples	-	-	1	-	-	1	-	-	1
Number of Fish Measured	82	51	133	-	-	200	153	92	245
Mean Length (cm)	-	-	40.4	-	-	46.5	41.94	48.66	44.46
Mean Weight (kg)	37.8	44.6	0.61	-	-	1.15	-	-	.916
Total Weight Landed (tons)	-	-	362	-	-	530	-	-	197.1
Estimated Number Landed	-	-	593443	-	-	460870	-	-	215174
Mesh(mm) or Hook(no.) Size	-	-	4.5 ¹	-	-	4.5 ¹	-	-	-
Range of Depths (fm)	-	-	-	-	-	120-140	-	-	140-150

¹ inches

TABLE 94
(Cont'd)

LENGTH FREQUENCIES - AMERICAN PLAICE - 4Vs - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl					
	(Research)					
CATCHES/LANDINGS	NK					
MONTH	April					
COUNTRY	France					
SEX	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	850-1500					
9	-	-	1	60	-	2
10	-	-	1	61	-	1
11	-	-	3	62	-	-
12	-	-	1	63	-	1
13	-	-	1	64	-	1
14	-	-	-	65	-	1
15	-	-	3	66	-	-
16	-	-	6	67	-	-
17	-	-	14	68	-	1
18	-	-	19			
19	-	-	13			
20	-	-	12			
21	-	-	20			
22	-	-	30			
23	-	-	24			
24	-	-	39			
25	-	-	36			
26	-	-	29			
27	-	-	36			
28	-	-	47			
29	-	-	44			
30	-	-	61			
31	-	-	46			
32	-	-	50			
33	-	-	37			
34	-	-	35			
35	-	-	37			
36	-	-	29			
37	-	-	31			
38	-	-	27			
39	-	-	28			
40	-	-	25			
41	-	-	22			
42	-	-	24			
43	-	-	24			
44	-	-	18			
45	-	-	20			
46	-	-	20			
47	-	-	12			
48	-	-	12			
49	-	-	10			
50	-	-	6			
51	-	-	7			
52	-	-	6			
53	-	-	6			
54	-	-	4			
55	-	-	4			
56	-	-	5			
57	-	-	4			
58	-	-	1			
59	-	-	1			
Total ‰						998
Serial Numbers						-
Number of Samples						8
Number of Fish Measured						2165
Mean Length (cm)						-
Mean Weight (kg)						-
Total Weight Landed (tons)						-
Estimated Number Landed						-
Mesh(mm) or Hook(no.) Size						140-110
Range of Depths (fm)						28-170

GEAR	Otter Trawl (Commercial)		
CATCHES/LANDINGS	Landings		
MONTH	November		
COUNTRY	Canada (Maritimes)		
SEX	♂	♀	Tot.
TONNAGE	151-500		
34	7	-	7
35	20	-	20
36	13	33	46
37	33	54	87
38	54	54	108
39	40	40	80
40	33	33	66
41	13	80	93
42	33	47	80
43	13	40	53
44	13	33	46
45	13	-	13
46	27	13	40
47	13	33	46
48	-	40	40
49	7	40	47
50	-	33	33
51	-	7	7
52	-	13	13
53	7	13	20
54	7	7	14
55	-	13	13
56	-	7	7
57	-	13	13
58	-	7	7
59	-	-	-
Total ‰	346	653	999
Serial Numbers	-	-	193
Number of Samples	-	-	1
Number of Fish Measured	52	98	150
Mean Length (cm)	40.9	43.8	42.8
Mean Weight (kg)	-	-	1.00
Total Weight Landed (tons)	-	-	-
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	4.5 ¹
Range of Depths (fm)	-	-	25-80

¹ inches

TABLE 96

LENGTH FREQUENCIES - AMERICAN PLAICE - 4W - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl		
	(Research)		
CATCHES/LANDINGS	NK		
MONTH	April		
COUNTRY	France		
SEX	♂♂	♀♀	Tot.
TONNAGE	850-1500		
10	-	-	1
11	-	-	5
12	-	-	19
13	-	-	19
14	-	-	10
15	-	-	5
16	-	-	9
17	-	-	15
18	-	-	21
19	-	-	35
20	-	-	37
21	-	-	29
22	-	-	42
23	-	-	58
24	-	-	51
25	-	-	35
26	-	-	38
27	-	-	30
28	-	-	34
29	-	-	39
30	-	-	42
31	-	-	21
32	-	-	27
33	-	-	42
34	-	-	27
35	-	-	52
36	-	-	37
37	-	-	33
38	-	-	24
39	-	-	23
40	-	-	20
41	-	-	13
42	-	-	30
43	-	-	13
44	-	-	18
45	-	-	15
46	-	-	6
47	-	-	3
48	-	-	6
49	-	-	6
50	-	-	5
51	-	-	-
52	-	-	5
53	-	-	1
Total ‰	-	-	1001
Serial Numbers	-	-	-
Number of Samples	-	-	3
Number of Fish Measured	-	-	792
Mean Length (cm)	-	-	-
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	-	-	-
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	140-110
Range of Depths (fm)	-	-	28-120

TABLE 97

LENGTH FREQUENCIES - AMERICAN PLAICE - 5Z - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl		
	(Research)		
CATCHES/LANDINGS	Catches		
MONTH	November		
COUNTRY	Poland		
SEX	♂	♀	Tot.
TONNAGE	796		
17	-	-	6
18	-	-	22
19	-	-	38
20	-	-	60
21	-	-	58
22	-	-	36
23	-	-	42
24	-	-	22
25	-	-	30
26	-	-	26
27	-	-	40
28	-	-	40
29	-	-	48
30	-	-	84
31	-	-	52
32	-	-	58
33	-	-	42
34	-	-	40
35	-	-	56
36	-	-	54
37	-	-	30
38	-	-	24
39	-	-	18
40	-	-	16
41	-	-	2
42	-	-	2
43	-	-	8
44	-	-	2
45	-	-	2
46	-	-	14
47	-	-	4
48	-	-	4
49	-	-	2
50	-	-	4
51	-	-	2
52	-	-	2
53	-	-	4
54	-	-	2
55	-	-	2
56	-	-	-
57	-	-	4
Total ‰	-	-	1002
Serial Numbers	-	-	-
Number of Samples	-	-	2
Number of Fish Measured	-	-	504
Mean Length (cm)	-	-	29.8
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	-	-	-
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	45
Range of Depths (fm)	-	-	80-200

TABLE 98

LENGTH FREQUENCIES - GREENLAND HALIBUT - 1D - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Prawn Trawl (Research)					
CATCHES/LANDINGS	NK					
MONTH	March					
COUNTRY	Denmark (Greenland)					
SEX	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	0-50					
8	-	-	3	60	-	31
9	-	-	3	61	-	9
10	-	-	16	62	-	31
11	-	-	22	63	-	28
12	-	-	38	64	-	6
13	-	-	63	65	-	13
14	-	-	34	66	-	6
15	-	-	3	67	-	9
16	-	-	3	68	-	13
17	-	-	-	69	-	3
18	-	-	3	70	-	6
19	-	-	6	71	-	6
20	-	-	13	72	-	3
21	-	-	16	73	-	6
22	-	-	44	74	-	6
23	-	-	28	75	-	-
24	-	-	13	76	-	-
25	-	-	6	77	-	-
26	-	-	6	78	-	-
27	-	-	3	79	-	9
28	-	-	3	80	-	-
29	-	-	9	81	-	-
30	-	-	13	82	-	-
31	-	-	16	83	-	-
32	-	-	34	84	-	9
33	-	-	6	90	-	6
34	-	-	19	100	-	3
35	-	-	3			
36	-	-	6			
37	-	-	9			
38	-	-	13			
39	-	-	13			
40	-	-	9			
41	-	-	34			
42	-	-	16			
43	-	-	22			
44	-	-	16			
45	-	-	3			
46	-	-	6			
47	-	-	19			
48	-	-	13			
49	-	-	16			
50	-	-	6			
51	-	-	16			
52	-	-	19			
53	-	-	16			
54	-	-	13			
55	-	-	31			
56	-	-	16			
57	-	-	6			
58	-	-	41			
59	-	-	13			
Total ‰						1001
Serial Numbers						-
Number of Samples						-
Number of Fish Measured						320
Mean Length (cm)						40.4
Mean Weight (kg)						-
Total Weight Landed (tons)						-
Estimated Number Landed						-
Mesh(mm) or Hook(no.) Size						-
Range of Depths (fm)						140-220

TABLE 98
(Cont'd)

LENGTH FREQUENCIES - GREENLAND HALIBUT - 1D - 1967

(FREQUENCIES IN % - 1 CM GROUPS)

GEAR	Prawn Trawl (Research)						
	NK						
CATCHES/LANDINGS	April						
MONTH	Denmark (Greenland)						
COUNTRY							
SEX	♂	♀	Tot.		♂	♀	Tot.
TONNAGE	0-50						
8	-	-	7	60	-	-	7
9	-	-	-	61	-	-	14
10	-	-	28	62	-	-	-
11	-	-	69	63	-	-	7
12	-	-	131	64	-	-	14
13	-	-	131	65	-	-	7
14	-	-	83	66	-	-	21
15	-	-	14	67	-	-	7
16	-	-	-	68	-	-	7
17	-	-	7	69	-	-	-
18	-	-	14	70	-	-	14
19	-	-	-	71	-	-	-
20	-	-	34	72	-	-	7
21	-	-	21	73	-	-	-
22	-	-	-	74	-	-	7
23	-	-	7	75	-	-	-
24	-	-	-	76	-	-	-
25	-	-	7	77	-	-	-
26	-	-	7	78	-	-	7
27	-	-	21	79	-	-	-
28	-	-	-	80	-	-	14
29	-	-	-	96	-	-	7
30	-	-	-				
31	-	-	14				
32	-	-	28				
33	-	-	7				
34	-	-	-				
35	-	-	7				
36	-	-	-				
37	-	-	7				
38	-	-	28				
39	-	-	28				
40	-	-	28				
41	-	-	14				
42	-	-	7				
43	-	-	21				
44	-	-	14				
45	-	-	14				
46	-	-	7				
47	-	-	-				
48	-	-	-				
49	-	-	7				
50	-	-	-				
51	-	-	7				
52	-	-	-				
53	-	-	-				
54	-	-	7				
55	-	-	-				
56	-	-	21				
57	-	-	-				
58	-	-	-				
59	-	-	21				
Total %/oo							1001
Serial Numbers							-
Number of Samples							-
Number of Fish Measured							145
Mean Length (cm)							29.9
Mean Weight (kg)							-
Total Weight Landed (tons)							-
Estimated Number Landed							-
Mesh(mm) or Hook(no.) Size							-
Range of Depths (fm)							140-143

GEAR	Otter Trawl					
	(Commercial)					
CATCHES/LANDINGS	Catches					
MONTH	May					
COUNTRY	Poland					
SEX	♂♂	♀♀	Tot.	2400		
TONNAGE						
37	-	-	6	88	-	16
38	-	-	3	89	-	10
39	-	-	10	90	-	3
40	-	-	16	91	-	7
41	-	-	-	92	-	7
42	-	-	-	93	-	3
43	-	-	13			
44	-	-	7			
45	-	-	20			
46	-	-	13			
47	-	-	23			
48	-	-	16			
49	-	-	7			
50	-	-	13			
51	-	-	23			
52	-	-	52			
53	-	-	26			
54	-	-	13			
55	-	-	49			
56	-	-	10			
57	-	-	52			
58	-	-	32			
59	-	-	42			
60	-	-	59			
61	-	-	29			
62	-	-	49			
63	-	-	59			
64	-	-	26			
65	-	-	32			
66	-	-	26			
67	-	-	39			
68	-	-	36			
69	-	-	16			
70	-	-	23			
71	-	-	3			
72	-	-	13			
73	-	-	20			
74	-	-	13			
75	-	-	3			
76	-	-	13			
77	-	-	3			
78	-	-	10			
79	-	-	-			
80	-	-	13			
81	-	-	-			
82	-	-	3			
83	-	-	7			
84	-	-	7			
85	-	-	3			
86	-	-	-			
87	-	-	3			
Total ‰	-	-	1000			
Serial Numbers	-	-	-			
Number of Samples	-	-	1			
Number of Fish Measured	-	-	307			
Mean Length (cm)	-	-	61.2			
Mean Weight (kg)	-	-	-			
Total Weight Landed (tons)	-	-	-			
Estimated Number Landed	-	-	-			
Mesh(mm) or Hook(no.) Size	-	-	114			
Range of Depths (fm)	-	-	380			

TABLE 101

LENGTH FREQUENCIES - GREENLAND HALIBUT - 3K - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl					
	(Research)					
CATCHES/LANDINGS	Catches					
MONTH	July					
COUNTRY	Poland					
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	796					
27	-	-	2	78	-	4
28	-	-	2	79	-	4
29	-	-	3	80	-	4
30	-	-	4	81	-	2
31	-	-	10	82	-	2
32	-	-	4	83	-	-
33	-	-	9	84	-	1
34	-	-	10	85	-	2
35	-	-	13	86	-	-
36	-	-	10	87	-	-
37	-	-	14	88	-	-
38	-	-	20	89	-	-
39	-	-	16	90	-	2
40	-	-	19	91	-	-
41	-	-	22	92	-	-
42	-	-	28	93	-	1
43	-	-	14			
44	-	-	14			
45	-	-	22			
46	-	-	32			
47	-	-	27			
48	-	-	17			
49	-	-	20			
50	-	-	28			
51	-	-	13			
52	-	-	35			
53	-	-	22			
54	-	-	18			
55	-	-	27			
56	-	-	42			
57	-	-	25			
58	-	-	38			
59	-	-	22			
60	-	-	43			
61	-	-	34			
62	-	-	52			
63	-	-	41			
64	-	-	24			
65	-	-	34			
66	-	-	23			
67	-	-	22			
68	-	-	28			
69	-	-	17			
70	-	-	15			
71	-	-	7			
72	-	-	8			
73	-	-	9			
74	-	-	9			
75	-	-	9			
76	-	-	2			
77	-	-	2			
Total ‰						1000
Serial Numbers						-
Number of Samples						1
Number of Fish Measured						1165
Mean Length (cm)						55.6
Mean Weight (kg)						-
Total Weight Landed (tons)						-
Estimated Number Landed						-
Mesh(mm) or Hook(no.) Size						45
Range of Depths (fm)						395-500

GEAR	Otter Trawl								
	(Commercial)								
CATCHES/LANDINGS	Landings								
	August			September			October		
MONTH	Canada (Maritimes)								
COUNTRY	Canada			Maritimes			Canada		
SEX	♂	♀	Tot.	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	26-50			51-150					
21	-	-	-	-	-	7	-	-	-
22	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	7	-	-	-
24	-	-	-	-	-	7	-	-	-
25	-	-	-	-	-	15	-	-	-
26	10	-	10	-	-	45	-	-	-
27	20	20	40	-	-	52	-	-	-
28	50	100	150	-	-	148	-	-	-
29	80	50	130	-	-	111	-	-	40
30	100	130	230	-	-	104	-	-	50
31	50	80	130	-	-	119	-	-	40
32	60	20	80	-	-	96	-	-	50
33	40	50	90	-	-	59	-	-	140
34	10	20	30	-	-	30	-	-	120
35	-	10	10	-	-	45	-	-	90
36	-	30	30	-	-	37	-	-	120
37	20	20	40	-	-	37	-	-	100
38	10	10	20	-	-	7	-	-	90
39	-	-	-	-	-	7	-	-	10
40	-	-	-	-	-	22	-	-	50
41	-	-	-	-	-	15	-	-	40
42	-	-	-	-	-	15	-	-	10
43	-	-	-	-	-	-	-	-	10
44	-	10	10	-	-	7	-	-	10
45	-	-	-	-	-	7	-	-	-
46	-	-	-	-	-	-	-	-	10
47	-	-	-	-	-	-	-	-	10
48	-	-	-	-	-	-	-	-	10
49	-	-	-	-	-	-	-	-	-
Total ‰	450	550	1000	-	-	999	-	-	1000
Serial Numbers	-	-	212	-	-	213	-	-	214
Number of Samples	-	-	1	-	-	1	-	-	1
Number of Fish Measured	45	55	100	-	-	135	-	-	100
Mean Length (cm)	30.6	31.1	30.9	-	-	31.2	-	-	35.5
Mean Weight (kg)	-	-	0.39	-	-	0.40	-	-	0.48
Total Weight Landed (tons)	-	-	134	-	-	72	-	-	199
Estimated Number Landed	-	-	343590	-	-	180000	-	-	414583
Mesh(mm) or Hook(no.) Size	-	-	4.5 ¹	-	-	4.5 ¹	-	-	4.5 ¹
Range of Depths (fm)	-	-	12-18	-	-	10-20	-	-	10-20

¹ Inches

TABLE 103

LENGTH FREQUENCIES - WITCH - 30 - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl											
	(Commercial)						(Research)					
	Landings After Discards			Landings			NK					
	March			September			March		April			
CATCHES/LANDINGS	Canada (Newfoundland)			Canada (Maritimes)			France					
MONTH	‰	‰	Tot.	‰	‰	Tot.	‰	‰	Tot.	‰	‰	Tot.
COUNTRY	Canada (Newfoundland)			Canada (Maritimes)			France					
SEX	‰	‰	Tot.	‰	‰	Tot.	‰	‰	Tot.	‰	‰	Tot.
TONNAGE	151-500						850-1500					
25	4	-	4	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	3	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	3
32	-	-	-	-	-	-	-	-	-	-	-	-
33	4	-	4	-	-	-	-	-	-	-	-	15
34	-	-	-	-	-	-	-	-	2	-	-	12
35	-	4	4	-	15	15	-	-	3	-	-	40
36	4	-	4	5	20	25	-	-	13	-	-	49
37	16	12	28	10	15	25	-	-	13	-	-	77
38	33	20	53	10	20	30	-	-	32	-	-	89
39	33	8	41	-	15	15	-	-	42	-	-	68
40	24	24	48	5	50	55	-	-	25	-	-	71
41	8	29	37	15	30	45	-	-	61	-	-	55
42	33	20	53	25	60	85	-	-	56	-	-	31
43	45	37	82	15	55	70	-	-	73	-	-	59
44	24	16	40	20	70	90	-	-	81	-	-	52
45	45	33	78	25	65	90	-	-	106	-	-	95
46	41	16	57	25	45	70	-	-	111	-	-	55
47	73	45	118	10	65	75	-	-	95	-	-	34
48	45	24	69	-	55	55	-	-	85	-	-	49
49	20	20	40	5	65	70	-	-	65	-	-	28
50	29	45	74	5	60	65	-	-	53	-	-	43
51	4	37	41	5	15	20	-	-	33	-	-	28
52	8	29	37	-	15	15	-	-	27	-	-	12
53	-	29	29	-	30	30	-	-	13	-	-	19
54	-	20	20	-	20	20	-	-	2	-	-	3
55	-	4	4	-	10	10	-	-	-	-	-	6
56	-	4	4	-	20	20	-	-	3	-	-	3
57	-	8	8	-	5	5	-	-	-	-	-	-
58	-	16	16	-	-	-	-	-	2	-	-	3
59	-	4	4	-	-	-	-	-	-	-	-	-
Total ‰	493	504	997	180	820	1000	-	-	999	-	-	999
Serial Numbers	-	-	-	-	-	202	-	-	-	-	-	-
Number of Samples	-	-	1	-	-	1	-	-	7	-	-	4
Number of Fish Measured	121	124	245	36	164	200	-	-	602	-	-	325
Mean Length (cm)	44.06	47.08	45.59	43.4	45.6	45.2	-	-	-	-	-	-
Mean Weight (kg)	-	-	.648	-	-	0.63	-	-	-	-	-	-
Total Weight Landed (tons)	-	-	312.3	-	-	148	-	-	-	-	-	-
Estimated Number Landed	-	-	481944	-	-	234921	-	-	-	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	L ¹	-	-	5.0 ²	-	-	-	-	-	-
Range of Depths (fm)	-	-	95-130	-	-	50-90	-	-	-140-110	-	-	-140-110
									55-280			55-170

1 Large

2 Inches

TABLE 104

LENGTH FREQUENCIES - WITCH - 3Ps - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl					
	(Commercial)			(Research)		
CATCHES/LANDINGS	Landings			NK		
MONTH	November			April		
COUNTRY	Canada (Maritimes)			France		
SEX	♂♂ ¹	♀♀	Tot.	♂♂ ¹	♀♀	Tot.
TONNAGE	151-500			850-1500		
15	-	-	-	-	-	2
16	-	-	-	-	-	1
17	-	-	-	-	-	1
18	-	-	-	-	-	2
19	-	-	-	-	-	-
20	-	-	-	-	-	1
21	-	-	-	-	-	6
22	-	-	-	-	-	1
23	-	-	-	-	-	2
24	-	-	-	-	-	3
25	-	-	-	-	-	2
26	-	-	-	-	-	3
27	-	-	-	-	-	6
28	-	-	-	-	-	8
29	-	-	-	-	-	12
30	-	-	-	-	-	17
31	-	-	-	-	-	23
32	-	-	-	-	-	29
33	-	-	-	-	-	41
34	-	-	-	-	-	75
35	-	2	2	-	-	78
36	2	2	4	-	-	82
37	2	-	2	-	-	88
38	12	5	17	-	-	71
39	18	-	18	-	-	69
40	18	5	23	-	-	60
41	58	2	60	-	-	48
42	48	15	63	-	-	45
43	62	2	64	-	-	37
44	53	42	95	-	-	48
45	82	28	110	-	-	24
46	40	25	65	-	-	27
47	22	58	80	-	-	18
48	18	85	103	-	-	18
49	20	62	82	-	-	17
50	5	60	65	-	-	10
51	-	53	53	-	-	6
52	-	25	25	-	-	4
53	-	28	28	-	-	6
54	-	20	20	-	-	2
55	-	13	13	-	-	2
56	-	8	8	-	-	1
57	-	-	-	-	-	2
58	-	-	-	-	-	2
59	-	-	-	-	-	1
Total ‰	460	540	1000	-	-	1001
Serial Numbers	-	-	203-204	-	-	-
Number of Samples	-	-	2	-	-	12
Number of Fish Measured	184	216	400	-	-	1259
Mean Length (cm)	43.6	48.4	46.2	-	-	-
Mean Weight (kg)	-	-	0.68	-	-	-
Total Weight Landed (tons)	-	-	393	-	-	-
Estimated Number Landed	-	-	577941	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	3.8 ¹	-	-	140-110
Range of Depths (fm)	-	-	85-92	-	-	55-220

¹ Inches

TABLE 105 LENGTH FREQUENCIES - WITCH - 4Vn - 1967

(FREQUENCIES IN % - 1 CM GROUPS)

GEAR	Danish Seine (Commercial)		
CATCHES/LANDINGS	Landings		
MONTH	October		
COUNTRY	Canada (Maritimes)		
SEX	♂	♀	Total
TONNAGE	26-50		
32	5	-	5
33	5	-	5
34	-	-	-
35	5	-	5
36	15	-	15
37	20	-	20
38	30	-	30
39	45	5	50
40	20	10	30
41	25	20	45
42	35	5	40
43	95	20	115
44	40	30	70
45	75	35	110
46	25	30	55
47	40	50	90
48	30	50	80
49	10	55	65
50	5	15	20
51	-	30	30
52	10	10	20
53	5	15	20
54	-	35	35
55	-	15	15
56	-	10	10
57	-	10	10
58	-	5	5
59	-	-	-
60	-	-	-
61	-	5	5
Total %	540	460	1000
Serial Numbers	-	-	205
Number of Samples	-	-	1
Number of Fish Measured	108	92	200
Mean Length (cm)	42.9	48.3	45.4
Mean Weight (kg)	-	-	0.62
Total Weight Landed (tons)	-	-	26
Estimated Number Landed	-	-	41935
Mesh(mm) or Hook(no.) Size	-	-	4.0 ¹
Range of Depths (fm)	-	-	50-80

¹ Inches

GEAR	Otter Trawl											
	(Commercial)						(Research)					
CATCHES/LANDINGS	Landings						NK					
MONTH	January		February			March		March-April				
COUNTRY	Canada (Maritimes)									France		
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	151-500						850-1500					
15	-	-	-	-	-	-	-	-	-	-	-	6
16	-	-	-	-	-	-	-	-	-	-	-	11
17	-	-	-	-	-	-	-	-	-	-	-	15
18	-	-	-	-	-	-	-	-	-	-	-	15
19	-	-	-	-	-	-	-	-	-	-	-	40
20	-	-	-	-	-	-	-	-	-	-	-	17
21	-	-	-	-	-	-	-	-	-	-	-	13
22	-	-	-	-	-	-	-	-	-	-	-	44
23	-	-	-	-	-	-	-	-	-	-	-	37
24	-	-	-	-	-	-	-	-	-	-	-	63
25	-	-	-	-	-	-	-	-	-	-	-	35
26	-	-	-	-	-	-	-	-	-	-	-	24
27	-	-	-	-	-	-	-	-	-	-	-	20
28	-	-	-	-	-	-	-	-	-	-	-	22
29	-	-	-	-	-	-	-	-	-	-	-	22
30	-	-	-	-	-	-	2	-	2	-	-	42
31	-	-	-	3	3	6	2	-	2	-	-	37
32	-	-	-	-	3	3	3	-	3	-	-	31
33	-	-	-	3	-	3	3	-	3	-	-	53
34	10	-	10	-	6	6	3	-	3	-	-	48
35	-	5	5	-	-	-	3	2	5	-	-	40
36	-	-	-	-	17	17	8	2	10	-	-	26
37	5	5	10	9	14	23	17	2	19	-	-	29
38	15	-	15	9	14	23	18	2	20	-	-	29
39	5	25	30	14	43	57	32	10	42	-	-	24
40	15	15	30	17	46	63	38	10	48	-	-	39
41	10	30	40	14	46	60	32	5	37	-	-	26
42	10	25	35	17	52	69	52	12	64	-	-	22
43	45	65	110	20	49	69	57	27	84	-	-	17
44	45	15	60	35	64	99	55	10	65	-	-	22
45	25	25	50	9	84	93	62	38	100	-	-	17
46	40	85	125	9	52	61	32	47	79	-	-	17
47	10	50	60	3	61	64	38	40	78	-	-	9
48	15	70	85	6	49	55	13	35	48	-	-	18
49	10	30	40	6	49	55	18	43	61	-	-	6
50	25	60	85	3	29	32	8	40	48	-	-	7
51	10	30	40	-	29	29	2	28	30	-	-	7
52	-	45	45	-	20	20	5	33	38	-	-	6
53	-	40	40	-	29	29	2	25	27	-	-	9
54	-	30	30	-	14	14	2	12	14	-	-	9
55	-	25	25	-	23	23	-	25	25	-	-	6
56	-	20	20	-	6	6	-	13	13	-	-	-
57	-	5	5	-	6	6	-	7	7	-	-	6
58	-	5	5	-	6	6	-	10	10	-	-	-
59	-	-	-	-	-	-	-	8	8	-	-	6
60	-	-	-	-	3	3	-	5	5	-	-	2
61	-	-	-	-	6	6	-	2	2	-	-	-
62	-	-	-	-	-	-	-	-	-	-	-	2
63	-	-	-	-	-	-	-	-	-	-	-	2
64	-	-	-	-	-	-	-	-	-	-	-	2
65	-	-	-	-	-	-	-	-	-	-	-	-
66	-	-	-	-	-	-	-	2	2	-	-	-
Total ‰	295	705	1000	177	823	1000	507	495	1002	-	-	1000
Serial Numbers	-	-	206	-	-	207&8	-	-	209-211	-	-	-
Number of Samples	-	-	1	-	-	2	-	-	3	-	-	2
Number of Fish Measured	59	141	200	61	285	346	304	296	600	-	-	542
Mean Length (cm)	44.2	47.6	46.6	42.2	45.5	44.9	43.0	48.8	45.9	-	-	-
Mean Weight (kg)	-	-	0.77	-	-	0.71	-	-	0.78	-	-	-
Total Weight Landed (tons)	-	-	260	-	-	226	-	-	731	-	-	-
Estimated Number Landed	-	-	337662	-	-	318310	-	-	937179	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	4.5 ¹	-	-	4.5 ¹	-	-	3.9-4.8 ¹	-	-	140-110
Range of Depths (fm)	-	-	80-130	-	-	75-150	-	-	120-150	-	-	55-180

¹ Inches

GEAR	Otter Trawl					
	(Commercial)					
CATCHES/LANDINGS	Landings After Discards					
MONTH	September			September		
COUNTRY	Canada (Newfoundland)					
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	501-900			151-500		
28	-	-	-	2	-	2
29	-	-	-	2	12	14
30	-	-	-	2	2	4
31	-	-	-	7	2	9
32	-	-	-	16	14	30
33	21	-	21	28	14	42
34	42	-	42	45	23	68
35	63	-	63	61	42	103
36	21	21	42	68	47	115
37	63	-	63	61	70	131
38	104	21	125	66	45	111
39	63	83	146	70	42	112
40	21	42	63	40	33	73
41	42	42	84	23	52	75
42	21	125	146	14	28	42
43	-	145	145	5	31	36
44	-	21	21	2	14	16
45	-	21	21	-	9	9
46	-	21	21	-	2	2
47	-	-	-	-	2	2
Total ‰	461	543	1003	512	484	996
Serial Numbers	-	-	-	-	-	-
Number of Samples	-	-	1	-	-	1
Number of Fish Measured	22	26	48	219	207	426
Mean Length (cm)	37.45	41.54	39.67	36.84	38.08	37.44
Mean Weight (kg)	-	-	.652	-	-	.482
Total Weight Landed (tons)	-	-	10.3	-	-	98.9
Estimated Number Landed	-	-	15798	-	-	205187
Mesh(mm) or Hook(no.) Size	-	-	L ¹	-	-	L ¹
Range of Depths (fm)	-	-	30-120	-	-	32-33

1 Large

GEAR	Otter Trawl											
	(Commercial)											
	Landings After Discards											
	January			February			March			September		
CATCHES/LANDINGS	Canada (Newfoundland)											
MONTH												
COUNTRY												
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	151-500						501-900					
25	-	-	-	-	-	-	1	-	1	-	-	-
26	1	-	1	6	-	6	-	2	2	-	-	-
27	3	3	6	3	-	3	1	1	2	-	-	-
28	3	2	5	1	6	7	2	2	4	-	-	-
29	3	1	4	6	3	9	4	3	7	-	-	-
30	3	4	7	6	4	10	5	9	14	-	-	-
31	8	9	17	12	18	30	6	7	13	-	-	-
32	17	12	29	19	12	31	10	11	21	4	4	8
33	29	29	58	19	16	35	22	28	50	8	8	16
34	34	37	71	39	44	83	30	44	74	24	8	32
35	24	34	58	37	54	91	40	52	92	36	20	56
36	42	35	77	26	38	64	43	43	86	68	12	80
37	32	38	70	51	53	104	50	51	101	60	52	112
38	33	45	78	51	54	105	41	59	100	104	48	152
39	47	54	101	35	44	79	31	49	80	112	80	192
40	44	45	89	39	44	83	34	45	79	36	56	92
41	21	45	66	19	37	56	27	45	72	24	48	72
42	21	45	66	16	34	50	10	33	43	20	56	76
43	12	37	49	10	44	54	10	42	52	8	40	48
44	8	34	42	1	32	33	3	32	35	4	24	28
45	3	46	49	3	19	22	2	34	36	-	16	16
46	-	25	25	-	18	18	-	20	20	-	12	12
47	1	13	14	-	13	13	-	19	19	-	4	4
48	-	14	14	-	9	9	-	5	5	-	4	4
49	-	4	4	-	1	1	-	2	2	-	4	4
50	-	2	2	-	1	1	-	2	2	-	-	-
51	-	-	-	-	1	1	-	-	-	-	-	-
52	-	-	-	-	1	1	-	-	-	-	-	-
Total ‰	389	613	1002	399	600	999	372	640	1012	508	496	1004
Serial Numbers	-	-	-	-	-	-	-	-	-	-	-	-
Number of Samples	-	-	5	-	-	3	-	-	5	-	-	1
Number of Fish Measured	435	686	1121	274	410	684	389	689	1078	127	124	251
Mean Length (cm)	37.16	39.59	38.65	36.59	38.80	37.92	36.96	38.93	38.22	37.87	40.02	38.93
Mean Weight (kg)	-	-	.556	-	-	.530	-	-	.540	-	-	.536
Total Weight Landed (tons)	-	-	332.6	-	-	71.1	-	-	148.8	-	-	17.4
Estimated Number Landed	-	-	598201	-	-	134151	-	-	275556	-	-	32462
Mesh(mm) or Hook(no.) Size	-	-	L ¹	-	-	L ¹	-	-	4 1/2 ²	-	-	L ¹
Range of Depths (fm)	-	-	25-60	-	-	25-30	-	-	28-70	-	-	32-34

1 Large

2 Inches

TABLE 109

LENGTH FREQUENCIES - YELLOWTAIL - 4vs - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl								
	(Commercial)								
CATCHES/LANDINGS	Landings								
MONTH	July			October			November		
COUNTRY	Canada (Maritimes)								
SEX	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
TONNAGE	151-500								
28	-	-	-	5	-	5	-	-	-
29	5	-	5	5	-	5	-	-	-
30	15	-	15	-	-	-	-	-	-
31	15	5	20	10	-	10	5	5	10
32	55	5	60	50	-	50	5	5	10
33	60	15	75	50	5	55	25	-	25
34	90	5	95	85	30	115	20	20	40
35	135	45	180	95	60	155	60	50	110
36	105	65	170	45	110	155	60	30	90
37	10	75	85	45	90	135	80	95	175
38	10	55	65	10	120	130	25	45	70
39	10	50	60	-	55	55	30	60	90
40	5	50	55	-	30	30	5	60	65
41	-	30	30	-	30	30	20	60	80
42	5	25	30	-	45	45	10	40	50
43	-	15	15	-	5	5	5	50	55
44	-	5	5	-	5	5	5	20	25
45	-	20	20	-	-	-	-	20	20
46	-	-	-	-	5	5	-	15	15
47	-	-	-	-	5	5	-	40	40
48	-	-	-	-	-	-	-	-	-
49	-	15	15	-	-	-	-	10	10
50	-	-	-	-	-	-	-	10	10
51	-	-	-	-	-	-	-	5	5
52	-	-	-	-	-	-	-	5	5
53	-	-	-	-	-	-	-	-	-
54	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
56	-	-	-	-	5	5	-	-	-
Total ‰	520	480	1000	400	600	1000	355	645	1000
Serial Numbers	-	-	199	-	-	200	-	-	201
Number of Samples	-	-	1	-	-	1	-	-	1
Number of Fish Measured	104	96	200	80	120	200	71	129	200
Mean Length (cm)	34.4	38.5	36.4	34.3	38.0	36.5	36.7	40.2	39.0
Mean Weight (kg)	-	-	0.50	-	-	0.53	-	-	0.60
Total Weight Landed (tons)	-	-	535	-	-	221	-	-	877
Estimated Number Landed	-	-	1070000	-	-	416981	-	-	1461667
Mesh(mm) or Hook(no.) Size	-	-	4.5 ¹	-	-	4.1 ¹	-	-	4.1 ¹
Range of Depths (fm)	-	-	23-28	-	-	25-30	-	-	30-35

¹ Inches

GEAR	Otter Trawl (Commercial)											
	CATCHES/LANDINGS											
MONTH	January			February			March			April		
COUNTRY	United States											
SEX	♂	♀	Tot.	♂	♀	Tot.	♂	♀	Tot.	♂	♀	Tot.
TONNAGE	0-125											
24	-	-	-	-	-	-	1	-	1	-	-	-
25	-	-	-	2	1	3	-	-	-	1	-	1
26	1	-	1	5	-	5	4	1	5	-	2	2
27	1	-	1	5	-	5	14	1	15	6	2	8
28	2	-	2	13	-	13	24	1	25	9	2	12
29	10	1	12	23	2	25	17	5	22	23	5	27
30	11	2	13	61	6	67	38	2	40	45	15	61
31	26	8	34	58	18	76	48	10	58	62	27	89
32	49	17	66	60	31	92	54	20	74	52	42	94
33	56	31	87	74	40	114	62	33	95	52	42	94
34	59	46	105	67	49	116	68	31	98	57	57	113
35	60	40	100	44	48	92	64	45	109	48	46	95
36	53	46	99	41	37	78	48	43	91	43	45	89
37	38	36	73	36	39	74	44	38	82	32	37	69
38	40	52	92	25	31	56	24	27	51	23	27	50
39	29	41	70	25	19	44	21	27	48	19	22	41
40	20	43	63	18	16	35	20	31	51	10	16	25
41	12	37	49	11	22	32	6	23	29	10	22	32
42	8	33	41	6	12	18	4	22	25	2	18	21
43	1	27	28	1	17	18	1	21	22	4	16	19
44	-	26	26	-	11	11	2	18	20	1	13	13
45	-	13	13	-	8	8	-	18	18	1	15	15
46	-	8	8	-	9	9	-	8	8	-	15	15
47	-	8	8	-	4	4	-	6	6	-	10	10
48	-	4	4	-	5	5	-	4	4	-	6	6
49	-	1	1	-	1	1	-	1	1	-	4	4
50	-	1	1	-	-	-	-	1	1	-	2	2
51	-	1	1	-	-	-	-	1	1	-	1	1
52	-	-	-	-	-	-	-	-	-	-	-	-
53	-	-	-	-	-	-	-	-	-	-	1	1
Total ‰	477	523	1000	574	426	1000	563	437	1000	500	500	1000
Serial Numbers	-	-	-	-	-	-	-	-	-	-	-	-
Number of Samples	16	16	16	16	16	16	17	17	17	16	16	16
Number of Fish Measured	684	749	1433	850	634	1484	819	646	1465	1001	931	1932
Mean Length (cm)	35.06	38.37	36.79	33.68	36.84	35.03	33.81	37.84	35.57	33.73	36.71	35.22
Mean Weight (kg)	0.39	0.54	0.47	0.35	0.48	0.40	0.36	0.53	0.43	0.34	0.57	0.46
Total Weight Landed (tons)	455	686	1149	490	493	983	758	865	1623	427	712	1139
Estimated Number Landed	1479 ¹	12592 ¹	24071 ¹	13921 ¹	10316 ¹	24237 ¹	21276 ¹	16505 ¹	37781 ¹	12441 ¹	12456 ¹	24897 ¹
Mesh(mm) or Hook(no.) Size	-	-	114	-	-	114	-	-	114	-	-	114
Range of Depths (fm)	-	-	6-50	-	-	5-41	-	-	6-41	-	-	5-37

¹ Numbers in 100's

TABLE 110
(Cont'd)

LENGTH FREQUENCIES - YELLOWTAIL - 52 - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl (Commercial)											
	CATCHES/LANDINGS											
MONTH	May			June			July			August		
COUNTRY	Landings											
SEX	♂			♀			United States			Tot.		
TONNAGE	‰	‰	Tot.	‰	‰	Tot.	‰	‰	Tot.	‰	‰	Tot.
	0-215											
24	1	-	1	-	-	-	-	-	-	-	-	-
25	1	-	1	-	-	-	-	-	-	-	-	-
26	3	1	4	1	-	1	1	-	1	-	-	-
27	7	-	7	2	1	3	-	-	-	-	-	-
28	17	-	17	9	1	10	7	-	7	-	-	-
29	29	1	30	27	2	29	25	1	26	1	-	1
30	48	5	54	48	13	61	68	7	75	6	-	6
31	57	18	75	72	30	102	78	17	95	14	3	17
32	65	31	95	79	43	122	86	56	142	23	10	33
33	72	48	119	66	54	119	62	63	126	32	29	61
34	52	54	106	54	55	109	52	76	128	46	53	99
35	40	53	93	52	46	99	20	58	78	56	77	133
36	33	41	74	32	38	70	14	58	72	38	62	101
37	32	31	63	29	30	59	15	48	64	37	77	114
38	28	23	50	29	28	57	7	39	46	16	60	76
39	22	23	44	21	20	42	5	23	28	19	54	73
40	20	17	38	15	20	34	2	31	33	9	54	63
41	15	18	34	8	18	26	2	22	24	4	63	67
42	7	18	25	3	12	15	1	17	18	4	45	50
43	6	13	19	1	12	13	1	9	9	1	33	34
44	3	13	16	2	9	11	-	9	9	-	36	36
45	1	8	9	-	5	6	-	8	8	-	15	15
46	-	8	8	-	7	7	-	6	6	-	7	7
47	-	6	6	-	3	3	-	3	3	-	7	7
48	-	6	6	-	3	3	-	1	1	-	3	3
49	-	3	3	-	-	-	-	-	-	-	1	1
50	-	1	1	-	1	1	-	-	-	-	3	3
51	-	1	1	-	-	-	-	-	-	-	-	-
52	-	1	1	-	-	-	-	-	-	-	-	-
Total ‰	559	441	1000	551	449	1000	448	552	1000	308	692	1000
Serial Numbers	-	-	-	-	-	-	-	-	-	-	-	-
Number of Samples	18	18	18	13	13	13	10	10	10	11	11	11
Number of Fish Measured	1208	951	2159	1080	866	1946	531	704	1235	389	887	1276
Mean Length (cm)	38.33	36.98	35.22	33.62	36.02	34.70	32.37	36.14	34.45	35.24	38.50	37.50
Mean Weight (kg)	0.35	0.58	0.45	0.34	0.53	0.42	0.30	0.44	0.38	0.39	0.54	0.49
Total Weight Landed (tons)	666	871	1537	571	720	1291	727	1309	2036	551	1732	2283
Estimated Number Landed	19055 ¹	15052 ¹	34107 ¹	16837 ¹	13701 ¹	30538 ¹	23796 ¹	29328 ¹	53124 ¹	14282 ¹	32115 ¹	46397 ¹
Mesh(mm) or Hook(no.) Size	-	-	114	-	-	114	-	-	114	-	-	114
Range of Depths (fm)	-	-	5-45	-	-	15-45	-	-	15-43	-	-	16-35

¹ Numbers in 100's

TABLE 110
(Cont'd)

LENGTH FREQUENCIES - YELLOWTAIL - 52 - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl (Commercial)											
	Landings											
CATCHES/LANDINGS	September			October			November			December		
MONTH	United States											
COUNTRY	00	00	Tot.	00	00	Tot.	00	00	Tot.	00	00	Tot.
SEX	00	00	Tot.	00	00	Tot.	00	00	Tot.	00	00	Tot.
TONNAGE	0-215											
29	-	-	-	1	-	1	-	-	-	-	-	-
30	4	-	4	2	-	2	3	1	3	-	-	-
31	17	4	21	12	3	15	13	3	16	9	4	13
32	41	19	60	39	33	72	39	10	49	33	9	42
33	62	53	115	56	53	109	78	47	125	59	26	84
34	59	86	145	68	103	171	80	81	160	72	67	139
35	46	88	135	53	111	165	53	104	157	63	103	166
36	55	78	134	36	86	122	37	106	143	48	99	148
37	30	54	84	23	60	83	36	68	105	28	86	115
38	25	41	66	18	42	60	26	52	78	20	82	101
39	11	32	44	18	32	50	13	30	43	17	39	56
40	10	27	37	19	27	47	10	24	34	7	37	44
41	10	25	35	14	18	33	7	12	19	5	21	26
42	4	28	32	5	18	23	1	15	16	1	16	17
43	1	30	31	3	12	15	-	15	15	-	16	16
44	1	24	25	1	14	15	-	10	10	1	10	11
45	1	15	16	-	10	10	-	9	9	-	10	10
46	-	7	7	-	3	3	-	5	5	1	5	5
47	-	5	5	-	3	3	-	7	7	-	1	1
48	-	1	1	-	2	2	-	2	2	-	3	3
49	-	2	2	-	-	-	-	2	2	-	1	1
50	-	1	1	-	-	-	-	1	1	-	1	1
51	-	-	-	-	-	-	-	1	1	-	-	-
Total ‰	378	622	1000	370	630	1000	395	605	1000	364	636	1000
Serial Numbers	-	-	-	-	-	-	-	-	-	-	-	-
Number of Samples	13	13	13	11	11	11	12	12	12	13	13	13
Number of Fish Measured	540	1112	1652	496	929	1425	599	860	1459	542	931	1473
Mean Length (cm)	33.01	37.35	36.46	35.26	36.47	36.03	34.80	36.82	36.02	34.98	37.19	36.39
Mean Weight (kg)	0.38	0.49	0.45	0.36	0.42	0.40	0.35	0.44	0.40	0.35	0.45	0.42
Total Weight Landed (tons)	674	1443	2117	827	1642	2469	736	1413	2149	627	1394	2021
Estimated Number Landed	17757 ¹	29222 ¹	46979 ¹	22718 ¹	38725 ¹	61443 ¹	21070 ¹	32252 ¹	53323 ¹	17691 ¹	30973 ¹	48664 ¹
Mesh(mm) or Hook(no.) Size	-	-	114	-	-	-	-	-	114	-	-	114
Range of Depths (fm)	-	-	25-39	-	-	22-46	-	-	5-35	-	-	6-37

¹ Numbers in 100's

TABLE 110 LENGTH FREQUENCIES - YELLOWTAIL - 5Z - 1967
(Cont'd)

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl		
CATCHES/LANDINGS	(Research)		
MONTH	November		
COUNTRY	Poland		
SEX	♂	♀	Tot.
TONNAGE	796		
18	-	-	7
19	-	-	11
20	-	-	42
21	-	-	25
22	-	-	31
23	-	-	13
24	-	-	5
25	-	-	5
26	-	-	5
27	-	-	13
28	-	-	22
29	-	-	38
30	-	-	112
31	-	-	87
32	-	-	60
33	-	-	83
34	-	-	76
35	-	-	78
36	-	-	47
37	-	-	47
38	-	-	29
39	-	-	22
40	-	-	22
41	-	-	22
42	-	-	20
43	-	-	16
44	-	-	18
45	-	-	22
46	-	-	5
47	-	-	6
48	-	-	6
49	-	-	5
Total ‰	-	-	1000
Serial Numbers	-	-	-
Number of Samples	-	-	1
Number of Fish Measured	-	-	448
Mean Length (cm)	-	-	32.7
Mean Weight (kg)	-	-	-
Total Weight Landed (tons)	-	-	-
Estimated Number Landed	-	-	-
Mesh(mm) or Hook(no.) Size	-	-	45
Range of Depths (fm)	-	-	49

GEAR		Otter Trawl											
CATCHES/LANDINGS		(Commercial)											
MONTH		January						February					
COUNTRY		United States											
TONNAGE		0-215											
YEAR-CLASS	AGE	‰ Frequency			Mean Length			‰ Frequency			Mean Length		
		♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
1966	1	-	-	-	-	-	-	-	-	-	-	-	-
1965	2	30	4	34	30.21	30.88	30.28	90	7	97	29.51	30.79	29.61
1964	3	253	240	493	33.98	35.76	34.84	314	241	555	33.13	34.89	33.89
1963	4	135	187	316	36.34	39.17	37.96	123	121	244	35.87	37.87	36.86
1962	5	33	59	92	39.07	42.23	41.09	27	30	57	39.16	42.47	40.89
1961	6	17	17	34	39.25	44.66	41.96	14	10	24	39.33	45.04	41.72
1960	7	7	18	25	40.73	45.45	44.09	6	11	17	40.76	45.58	43.79
1959	8	1	4	5	39.00	46.39	45.58	1	3	4	39.00	46.80	45.88
1958	9	-	1	1	-	47.10	47.10	-	2	2	-	48.38	48.38
Total ‰		476	524	1000				575	425	1000			
Serial Numbers		-	-	-				-	-	-			
Number of Samples		13	13	13				12	12	12			
Number of Fish Aged		259	294	553				289	287	576			
Mean Age		3.54	3.85	3.71				3.28	3.64	3.44			
Mean Weight (kg)		0.39	0.54	0.47				0.35	0.48	0.40			
Total Weight Landed (tons)		455	686	1149				490	493	983			
Estimated Number Landed		1479 ¹	12592 ¹	24071 ¹				13921 ¹	10316 ¹	24237 ¹			
Mesh(mm) or Hook(no.) Size		-	-	114				-	-	114			
Range of Depths (fm)		-	-	6-50				-	-	5-41			

¹ Numbers in 100's

TABLE 111
(Cont'd)

AGE FREQUENCIES - YELLOWTAIL - 5Z - 1967

(FREQUENCIES IN %/oo)

GEAR		Otter Trawl (Commercial)											
CATCHES/LANDINGS		Landings											
MONTH		March						April					
COUNTRY		United States											
TONNAGE		0-215											
YEAR-CLASS	AGE	%/oo Frequency			Mean Length			%/oo Frequency			Mean Length		
		00	00	Tot.	00	00	Tot.	00	00	Tot.	00	00	Tot.
1966	1	-	-	-	-	-	-	-	-	-	-	-	-
1965	2	90	8	98	29.07	29.66	29.12	82	12	94	30.32	31.08	30.42
1964	3	300	212	512	33.50	35.36	34.27	306	307	613	33.29	34.58	33.94
1963	4	128	136	264	35.91	38.86	37.43	84	98	182	36.58	38.27	37.49
1962	5	25	44	69	38.86	42.44	41.79	19	36	55	39.29	42.68	41.49
1961	6	16	14	30	39.90	44.82	42.23	8	20	28	40.20	45.34	43.90
1960	7	5	16	21	40.63	45.71	44.56	3	17	20	39.84	46.20	45.37
1959	8	1	4	5	39.00	46.81	46.09	1	6	7	43.20	49.21	48.49
1958	9	-	1	1	-	47.00	47.00	-	1	1	-	52.10	52.10
Total %/oo		565	435	1000				503	497	1000			
Serial Numbers		-	-	-				-	-	-			
Number of Samples		12	12	12				13	13	13			
Number of Fish Aged		245	264	509				265	288	553			
Mean Age		3.28	3.79	3.50				3.15	3.65	3.40			
Mean Weight (kg)		0.36	0.53	0.43				0.34	0.57	0.46			
Total Weight Landed (tons)		758	865	1623				427	712	1139			
Estimated Number Landed		1276 ¹	1650 ¹	3778 ¹				1244 ¹	1245 ¹	2489 ¹			
Mesh(mm) or Hook(no.) Size		-	-	114				-	-	114			
Range of Depths (fm)		-	-	6-41				-	-	5-37			

¹ Numbers in 100's

TABLE 111
(Cont'd)

AGE FREQUENCIES - YELLOWTAIL - SZ - 1967

(FREQUENCIES IN ‰)

GEAR		Otter Trawl (Commercial)											
CATCHES/LANDINGS		Landings											
MONTH		May						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.
1966	1	-	-	-	-	-	-	-	-	-	-	-	-
1965	2	100	6	106	30.11	32.62	30.27	92	10	102	30.64	31.83	30.75
1964	3	319	274	593	33.11	34.83	33.91	339	303	642	33.07	34.41	33.70
1963	4	93	93	186	37.02	38.20	37.61	89	87	176	36.59	37.85	37.21
1962	5	29	31	60	39.93	42.50	39.88	21	26	47	39.41	42.10	40.91
1961	6	12	19	31	41.09	45.24	43.36	8	11	19	40.30	44.97	42.99
1960	7	4	14	18	40.69	46.10	45.06	2	9	11	39.14	45.45	44.30
1959	8	1	4	5	43.24	48.69	47.39	1	2	3	43.00	48.23	47.12
1958	9	-	1	1	-	51.33	51.33	-	-	-	-	53.00	53.00
Total ‰		558	442	1000				552	448	1000			
Serial Numbers		-	-	-				-	-	-			
Number of Samples		13	13	13				12	12	12			
Number of Fish Aged		198	211	409				198	222	420			
Mean Age		3.20	3.65	3.40				3.16	3.45	3.29			
Mean Weight (kg)		0.35	0.58	0.45				0.34	0.53	0.42			
Total Weight Landed (tons)		666	871	1537				571	720	1291			
Estimated Number Landed		9055 ¹	15052 ¹	34107 ¹				16837 ¹	13701 ¹	30538 ¹			
Mesh(mm) or Hook(no.) Size		-	-	114				-	-	114			
Range of Depths (fm)		-	-	5-45				-	-	15-45			

¹ Numbers in 100's

TABLE 111
(Cont'd)

AGE FREQUENCIES - YELLOWTAIL - 5Z - 1967

(FREQUENCIES IN ‰)

GEAR		Otter Trawl											
CATCHES/LANDINGS		(Commercial)											
MONTH		July						August					
COUNTRY		United States											
TONNAGE		0-215											
YEAR-CLASS	AGE	‰ Frequency			Mean Length			‰ Frequency			Mean Length		
		00	01	Tot.	00	01	Tot.	00	01	Tot.	00	01	Tot.
1966	1	-	-	-	-	-	-	-	-	-	-	-	-
1965	2	276	104	380	31.42	33.12	31.89	98	59	157	33.29	34.59	33.78
1964	3	134	322	456	33.32	35.56	34.90	130	362	492	35.22	37.00	36.53
1963	4	31	96	127	35.59	38.94	38.02	60	189	249	37.09	40.18	39.43
1962	5	4	16	20	38.70	42.86	42.10	12	47	59	38.91	43.50	42.58
1961	6	2	10	12	40.85	44.55	43.80	-	30	30	40.41	44.09	43.34
1960	7	-	5	5	40.00	44.83	44.40	-	13	13	40.20	44.75	44.38
1959	8	-	-	-	-	-	-	-	-	-	-	-	-
1958	9	-	-	-	-	-	-	-	-	-	-	-	-
Total ‰		447	553	1000				300	700	1000			
Serial Numbers		-	-	-				-	-	-			
Number of Samples		11	11	11				11	11	11			
Number of Fish Aged		177	218	395				257	273	530			
Mean Age		2.49	3.13	3.07				3.03	3.50	3.35			
Mean Weight (kg)		0.30	0.44	0.38				0.39	0.54	0.49			
Total Weight Landed (tons)		727	1309	2036				551	1732	2283			
Estimated Number Landed		23796 ¹	29328 ¹	53124 ¹				14282 ¹	32115 ¹	46397 ¹			
Mesh(mm) or Hook(no.) Size		-	-	114				-	-	114			
Range of Depths (fm)		-	-	15-43				-	-	16-35			

¹ Numbers in 100's

TABLE 111
(Cont'd)

AGE FREQUENCIES - YELLOWTAIL - 52 - 1967

(FREQUENCIES IN ‰)

GEAR		Otter Trawl (Commercial)											
CATCHES/LANDINGS		Landings											
MONTH		September						October					
COUNTRY		United States											
TONNAGE		0-215											
YEAR-CLASS	AGE	‰ Frequency			Mean Length			‰ Frequency			Mean Length		
		♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.	♂♂	♀♀	Tot.
1966	1	-	-	-	-	-	-	-	-	-	-	-	-
1965	2	132	79	211	33.19	34.23	33.58	153	331	484	33.59	35.01	34.56
1964	3	155	350	505	34.87	35.99	35.65	165	227	392	35.62	36.77	36.29
1963	4	67	135	202	37.14	39.96	39.02	42	56	98	38.69	41.63	40.38
1962	5	13	34	47	39.56	43.56	42.46	6	14	20	41.12	43.52	42.74
1961	6	8	18	26	40.45	44.64	43.38	3	2	5	41.50	46.00	43.43
1960	7	2	7	9	40.50	44.51	43.82	-	1	1	-	47.40	47.40
1959	8	-	-	-	-	-	-	-	-	-	-	-	-
1958	9	-	-	-	-	-	-	-	-	-	-	-	-
Total ‰		327	623	1000				369	631	1000			
Serial Numbers		-	-	-				-	-	-			
Number of Samples		13	13	13				11	11	11			
Number of Fish Aged		165	202	367				170	196	366			
Mean Age		2.98	3.34	3.20				2.76	2.62	2.67			
Mean Weight (kg)		0.38	0.49	0.45				0.36	0.42	0.40			
Total Weight Landed (tons)		674	1443	2117				827	1642	2469			
Estimated Number Landed		7757 ¹	29222 ¹	46979 ¹				22718 ¹	38725 ¹	61443 ¹			
Mesh(mm) or Hook(no.) Size		-	-	114				-	-	114			
Range of Depths (fm)		-	-	25-39				-	-	22-46			

¹ Numbers in 100's

TABLE 111
(Cont'd)

AGE FREQUENCIES - YELLOWTAIL- 5Z - 1967

(FREQUENCIES IN ‰)

GEAR		Otter Trawl (Commercial)												
CATCHES/LANDINGS		Landings												
MONTH		November						December						
COUNTRY		United States												
TONNAGE		0-215												
YEAR-CLASS	AGE	‰ Frequency			Mean Length			‰ Frequency			Mean Length			
		85	90	Tot.	85	90	Tot.	85	90	Tot.	85	90	Tot.	
1966	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1965	2	178	307	485	33.64	35.35	34.72	157	304	461	33.86	35.71	35.08	
1964	3	180	223	403	35.28	36.87	36.16	170	251	421	35.34	37.32	36.52	
1963	4	33	53	86	37.63	41.52	40.00	31	62	93	37.52	41.33	40.06	
1962	5	4	18	22	39.75	44.59	43.87	4	16	20	41.58	43.81	43.37	
1961	6	-	3	3	42.00	46.20	45.86	2	2	4	41.25	46.00	44.01	
1960	7	-	1	1	-	47.00	47.00	-	1	1	-	47.75	47.75	
1959	8	-	-	-	-	48.00	48.00	-	-	-	-	-	-	
1958	9	-	-	-	-	-	-	-	-	-	-	-	-	
Total ‰		395	605	1000				364	636	1000				
Serial Numbers		-	-	-				-	-	-				
Number of Samples		10	10	10				12	12	12				
Number of Fish Aged		206	224	430				169	197	366				
Mean Age		2.66	2.66	2.66				2.69	2.69	2.69				
Mean Weight (kg)		0.35	0.44	0.40				0.35	0.45	0.42				
Total Weight Landed (tons)		736	1413	2149				627	1394	2021				
Estimated Number Landed		21070 ¹	32252 ¹	53323 ¹				17691 ¹	30973 ¹	48664 ¹				
Mesh(mm) or Hook(no.) Size		-	-	114				-	-	114				
Range of Depths (fm)		-	-	5-35				-	-	6-37				

¹ Numbers in 100's

GEAR	Otter Trawl
CATCHES/LANDINGS	(Research)
MONTH	NK
COUNTRY	April
TONNAGE	France
	850-1500
42	27
45	78
48	162
51	269
54	269
57	141
60	33
63	12
66	6
69	-
72	3
Total ‰	1000
Serial Numbers	-
Number of Samples	3
Number of Fish Measured	334
Mean Length (cm)	-
Mean Weight (kg)	-
Total Weight Landed (tons)	-
Estimated Number Landed	-
Mesh(mm) or Hook(no.) Size	140-110
Range of Depths (fm)	55-120

¹ NOTE: This table was presented in 3 cm groups rather than 2 cm groups as required.

TABLE 113 LENGTH FREQUENCIES - POLLOCK - 4W - 1967

(FREQUENCIES IN % - 2 CM GROUPS)

GEAR	Otter Trawl	
	(Commercial)	
CATCHES/LANDINGS	Landings	
MONTH	August	October
COUNTRY	Canada (Maritimes)	
TONNAGE	151-500	
44	5	-
46	-	-
48	28	6
50	18	17
52	46	61
54	78	78
56	128	101
58	160	112
60	105	101
62	69	61
64	28	17
66	18	17
68	14	11
70	32	28
72	50	28
74	60	45
76	28	50
78	23	50
80	32	45
82	32	33
84	23	45
86	9	33
88	9	33
90	5	11
92	-	17
Total %	1000	1000
Serial Numbers	165	166
Number of Samples	1	1
Number of Fish Measured	218	179
Mean Length (cm)	63.9	67.4
Mean Weight (kg)	2.99	3.65
Total Weight Landed (tons)	674	441
Estimated Number Landed	225418	120822
Mesh(mm) or Hook(no.) Size	4.6 ¹	4.6 ¹
Range of Depths (fm)	35-90	80-100

¹ Inches

TABLE 114 LENGTH FREQUENCIES - POLLOCK - 4X (SOUTH)¹ - 1967

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	Otter Trawl
	(Commercial)
CATCHES/LANDINGS	Landings
MONTH	July
COUNTRY	Canada (Maritimes)
TONNAGE	151-500
40	6
42	6
44	-
46	7
48	-
50	7
52	-
54	-
56	-
58	7
60	13
62	13
64	53
66	66
68	92
70	118
72	66
74	99
76	92
78	72
80	79
82	86
84	66
86	26
88	20
90	-
92	6
Total ‰	1000
Serial Numbers	164
Number of Samples	1
Number of Fish Measured	152
Mean Length (cm)	74.1
Mean Weight (kg)	5.14
Total Weight Landed (tons)	447
Estimated Number Landed	86965
Mesh(mm) or Hook(no.) Size	4.5 ²
Range of Depths (fm)	55-62

¹ South of latitude 44°00'² Inches

TABLE 115 LENGTH FREQUENCIES - POLLOCK - 52 - 1967

(FREQUENCIES IN %/oo - 2 CM GROUPS)

GEAR	Otter Trawl
CATCHES/LANDINGS	(Commercial)
MONTH	Landings
COUNTRY	February
TONNAGE	Canada (Maritimes)
	151-500
38	9
40	-
42	-
44	-
46	-
48	-
50	9
52	-
54	17
56	9
58	52
60	26
62	69
64	69
66	120
68	86
70	120
72	86
74	103
76	69
78	69
80	26
82	26
84	17
86	9
88	9
Total %/oo	1000
Serial Numbers	163
Number of Samples	1
Number of Fish Measured	116
Mean Length (cm)	69.8
Mean Weight (kg)	3.75
Total Weight Landed (tons)	542
Estimated Number Landed	144533
Mesh(mm) or Hook(no.) Size	4.5 ¹
Range of Depths (fm)	125

¹ Inches

GEAR	Otter Trawl		
CATCHES/LANDINGS	(Commercial)		
MONTH	Landings		
COUNTRY	August	September	October
TONNAGE	Canada (Maritimes)		
	51-150		
36	-	-	14
38	-	-	14
40	8	-	14
42	-	-	43
44	15	-	101
46	4	-	140
48	38	36	155
50	57	62	164
52	77	36	97
54	107	89	72
56	107	152	82
58	107	107	39
60	77	89	29
62	100	62	10
64	80	89	5
66	69	71	5
68	61	45	5
70	15	27	10
72	27	36	-
74	8	27	-
76	11	-	-
78	11	9	-
80	-	18	-
82	4	9	-
84	4	-	-
86	8	18	-
88	-	9	-
90	4	-	-
92	-	-	-
94	-	9	-
Total ‰	999	1000	999
Serial Numbers	159-160	161	162
Number of Samples	2	1	1
Number of Fish Measured	262	112	207
Mean Length (cm)	60.0	61.9	50.3
Mean Weight (kg)	1.62	2.01	1.01
Total Weight Landed (tons)	307	305	295
Estimated Number Landed	189506	151741	292079
Mesh(mm) or Hook(no.) Size	4.4-4.6 ¹	4.6 ¹	4.3 ¹
Range of Depths (fm)	10-20	10-20	10-20

¹ Inches

TABLE 117 LENGTH FREQUENCIES - WHITE HAKE - 4W and 4X - 1967

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	Otter Trawl
CATCHES/LANDINGS	(Commercial)
MONTH	Landings
COUNTRY	November
TONNAGE	Canada (Maritimes)
	151-500
48	14
50	14
52	21
54	78
56	96
58	135
60	139
62	114
64	107
66	68
68	64
70	35
72	14
74	28
76	14
78	11
80	14
82	4
84	7
86	-
88	4
90	4
92	-
94	-
96	-
98	4
100	4
112	4
114	4
Total ‰	1001
Serial Numbers	195-196
Number of Samples	2
Number of Fish Measured	282
Mean Length (cm)	63.3
Mean Weight (kg)	2.26
Total Weight Landed (tons)	-
Estimated Number Landed	-
Mesh(mm) or Hook(no.) Size	4.5 ¹
Range of Depths (fm)	20-95

¹ Inches

TABLE 118

LENGTH FREQUENCIES - WHITE HAKE - 4X (SOUTH)¹ - 1967

(FREQUENCIES IN ‰ - 2 CM GROUPS)

GEAR	Otter Trawl
	(Commercial)
CATCHES/LANDINGS	Landings
MONTH	October
COUNTRY	Canada (Maritimes)
TONNAGE	151-500
50	25
52	15
54	30
56	109
58	139
60	94
62	148
64	64
66	104
68	79
70	45
72	30
74	15
76	10
78	20
80	5
82	20
84	5
86	5
88	5
90	20
92	-
94	-
96	5
110	5
128	5
Total ‰	1002
Serial Numbers	157-158
Number of Samples	2
Number of Fish Measured	202
Mean Length (cm)	64.9
Mean Weight (kg)	2.29
Total Weight Landed (tons)	11
Estimated Number Landed	4803
Mesh(mm) or Hook(no.) Size	4 1/2 ²
Range of Depths (fm)	40-100

¹ South of latitude 44°00'² Inches

TABLE 119 LENGTH FREQUENCIES - RED HAKE - 5Z - 1967

(FREQUENCIES IN ‰ - 1 CM GROUPS)

GEAR	Otter Trawl								
	(Commercial)								
CATCHES/LANDINGS	Landings								
MONTH	May	June	July	August	September	October	November	December	
COUNTRY	United States								
TONNAGE	0-215								
16	-	-	7	-	-	-	-	-	-
17	5	-	15	-	4	-	-	-	11
18	-	1	3	5	-	2	9	-	-
19	-	-	6	11	6	2	-	-	-
20	-	5	16	27	24	17	9	-	-
21	5	12	15	49	35	22	56	9	-
22	-	12	9	94	31	27	34	50	-
23	5	16	20	102	30	41	65	17	-
24	-	4	34	87	12	70	53	34	-
25	11	6	39	69	25	74	45	70	-
26	5	28	45	32	36	43	54	86	-
27	9	42	85	61	24	60	16	62	-
28	41	91	101	70	50	42	37	67	-
29	46	105	98	56	51	52	32	58	-
30	53	102	95	31	58	115	46	19	-
31	48	100	88	38	87	97	64	9	-
32	62	103	79	46	58	51	78	15	-
33	85	68	67	32	108	61	78	62	-
34	45	77	45	26	63	62	76	43	-
35	70	54	33	41	52	29	48	41	-
36	61	33	37	14	49	30	68	54	-
37	106	42	19	31	22	24	30	26	-
38	83	30	6	15	37	9	30	34	-
39	72	20	11	16	30	15	21	28	-
40	39	12	5	15	20	-	19	26	-
41	37	7	4	10	9	11	8	19	-
42	44	12	9	10	31	18	4	58	-
43	28	5	2	3	9	13	4	32	-
44	10	2	2	-	8	5	4	-	-
45	13	2	-	-	18	2	12	15	-
46	11	4	-	3	3	-	-	24	-
47	-	1	5	6	-	-	-	7	-
48	6	-	-	-	10	2	-	-	-
49	-	-	-	-	-	-	-	9	-
50	-	2	-	-	-	4	-	-	-
51	-	-	-	-	-	-	-	-	-
52	-	1	-	-	-	-	-	15	-
53	-	1	-	-	-	-	-	-	-
Total ‰	1000	1000	1000	1000	1000	1000	1000	1000	1000
Serial Numbers	-	-	-	-	-	-	-	-	-
Number of Samples	7	17	9	6	6	8	6	6	-
Number of Fish Measured	201	996	460	243	258	216	250	109	-
Mean Length (cm)	35.31	31.67	29.60	27.94	30.76	29.93	30.32	32.42	-
Mean Weight (kg)	0.31	0.23	0.19	0.14	0.23	0.21	0.21	0.29	-
Total Weight Landed (tons)	333	1487	821	474	575	499	844	512	-
Estimated Number Landed	10612 ¹	66119 ¹	44330 ¹	33426 ¹	25092 ¹	23705 ¹	39502 ¹	17590 ¹	-
Mesh(mm) or Hook(no.) Size	64	64	64	64	64	64	64	64	-
Range of Depths (fm)	14-27	13-30	14-30	14-31	18-30	18-34	10-29	20-31	-

¹ Numbers in 100's

Summary of Length and Age Sampling by Species, Subarea and Country
in Relation to Nominal Catch in 1966¹ and 1967

At the 1968 ICNAF Annual Meeting, the Statistics and Sampling Subcommittee of the Standing Committee on Research and Statistics recommended:

"that the 1966 and 1967 summary review of sampling activities together with the relevant catches be published in Volume 12 of the Sampling Yearbook."

(ICNAF Redbook 1968, Pt. I, p. 70)

In fulfilment of the above requirements the following summary of the numbers of fish sampled for length and age by species, subarea and country is presented in relation to the nominal catch for the years 1966 and 1967.

Species	Subarea and Country	Catch in Thousands of Tons	Number of Sampling	
			Length	Age
<u>1966</u>				
Cod	ICNAF	1 477	364 523	17 887
	1	366	56 220	11 746
	2	338	129 373	4 332
	3	499	143 838	1 809
	4	215	31 212	-
	5	57	3 880	-
	Can (M)	120	20 073	-
	Can (N)	188	105 491	-
	Den (G)	29	14 577	4 583
	Fr (M)	141	17 655	-
	Ger	154	23 349	4 591
	Ice	4	390	390
	Nor	42	2 182	2 182
	Pol	37	13 259	-
	Por	202	15 280	3 741
	USSR	110	96 885	2 400
	UK	55	52 995	-
	USA	17	2 387	-
	Spa	232	-	-
	Den (F)	79	-	-

¹ The 1966 data has been presented as ICNAF Res. Doc. 68/22 to the 1968 Annual Meeting of the Commission.

Species	Subarea and Country	Catch in Thousands of Tons	Number of Sampling	
			Length	Age
<u>1966</u>				
Haddock	ICNAF	203	71 010	5 943
	3	10	2 081	-
	4	66	32 686	993
	5	127	36 243	4 950
	Can (M)	59	19 867	-
	Can (N)	2	2 758	-
	USSR	73	26 350	2 081
	USA	60	22 035	3 862
	Redfish	ICNAF	225	149 474
1		17	6 410	-
2		14	23 560	1 569
3		79	23 946	236
4		106	85 558	-
5		9	10 000	-
Can (M)		48	4 731	-
Can (N)		35	4 690	-
Den (G)		ø ²	6 410	-
Pol		15	12 969	-
USSR		49	31 574	1 805
USA		37	89 100	-
Ger		17	-	-
Silver hake	ICNAF	172	43 191	3 915
	4	10	7 991	1 185
	5	162	35 200	2 730
	USSR	131	43 191	3 915
	USA	41	-	-
American plaice	ICNAF	79	27 130	-
	1	-	1 110	-
	2	ø ²	3 543	-
	3	56	21 587	-
	4	19	890	-
	Can (M)	30	890	-
	Can (N)	43	17 958	-
Pol	... ³	8 282	-	
Greenland halibut	ICNAF	21	2 454	-
	2	1	999	-
	3	17	1 455	-
	Pol	1	2 454	-
	Can (N)	16	-	-

² less than one thousand tons

³ reported within Flounders (not spec.)

Species	Subarea and Country	Catch in Thousands of Tons	Number of Sampling	
			Length	Age
<u>1966</u>				
Witch	ICNAF	19	2 771	-
	3	6	1 435	-
	4	10	1 336	-
	Can (M)	9	1 336	-
	Can (N)	6	222	-
	Pol	... ³	1 213	-
Yellowtail flounder	ICNAF	39	3 195	-
	3	4	2 495	-
	4	4	700	-
	Can (M)	6	700	-
	Can (N)	2	2 009	-
	Pol	... ³	486	-
	USA	31	-	-
Winter flounder	ICNAF	18	809	-
	4	3	809	-
	Can (M)	3	809	-
	USA	15	-	-
Pollock	ICNAF	36	375	-
	4	25	375	-
	Can (M)	18	375	-
	USSR	11	-	-
White hake	ICNAF	10	1 623	-
	4	9	1 623	-
	Can (M)	9	1 623	-
ALL SPECIES	ICNAF	3 189	666 555	29 550
Cod		1 477	364 523	17 887
Haddock		203	71 010	5 943
Redfish		225	149 474	1 805
Silver hake		172	43 191	3 915
American plaice		79	27 130	-
Greenland halibut		21	2 454	-
Witch		19	2 771	-
Yellowtail flounder		31	3 195	-
Winter flounder		18	809	-
Pollock		36	375	-
White hake		10	1 623	-
Other		898	-	-

³ reported within Flounders (not spec.)

Species	Subarea and Country	Catch in Thousands of Tons	Number of Sampling	
			Length	Age
<u>1966</u>				
ALL SPECIES	Can (M)	638	50 404	-
	Can (N)	336	133 128	-
	Den (G)	43	20 987	4 583
	Fr (M)	141	17 655	-
	Ger	178	23 349	4 591
	Ice	7	390	390
	Nor	42	2 182	2 182
	Pol	72	38 663	-
	Por	202	15 280	3 741
	USSR	710	198 000	10 201
	UK	60	52 995	-
	USA	329	113 522	3 862
	Den (F)	81	-	-
	Fr (S.P.)	11	-	-
	Spa	241	-	-
	Non-m	98	-	-
	1	404	63 740	11 746
	2	366	157 475	5 901
	3	748	196 837	2 045
	4	802	163 180	2 178
	5	867	85 323	7 680
	NK	2	-	-
<u>1967</u>				
Cod	ICNAF	1 685	456 244	16 890
	1	430	42 510	11 255
	2	298	228 324	2 860
	3	721	146 738	2 775
	4	194	35 186	-
	5	42	3 486	-
	Can (M)	110	20 634	-
	Can (N)	176	87 503	-
	Den (G)	28	18 758	3 842
	Fr (M)	150	6 981	-
	Ger	172	10 864	4 627
	Nor	59	2 786	2 786
	Pol	58	12 936	-
	Por	237	6 530	2 922
	Spa	280	36 400	307
	USSR	165	233 956	2 406
	UK	77	16 473	-
	USA	20	2 423	-
	Den (F)	79	-	-
	Non-m	71	-	-

Species	Subarea and Country	Catch in Thousands of Tons	Number of Sampling		
			Length	Age	
1967					
Haddock	ICNAF	117	49 259	3 368	
	1	∅ ²	-	-	
	2	∅ ²	-	-	
	3	11	2 457	-	
	4	49	23 370	-	
	5	57	23 432	3 368	
	Can (M)	54	25 262	-	
	Can (N)	2	811	-	
	Fr (M)	∅ ²	2 559	-	
	Pol	∅ ²	1 028	-	
	USA	65	19 599	3 368	
	Redfish	ICNAF	218	71 991	1 511
		1	13	2 483	-
2		17	17 137	442	
3		89	38 064	1 069	
4		88	11 707	-	
5		11	2 600	-	
Can (M)		51	2 394	-	
Can (N)		28	3 406	-	
Den (G)		-	2 222	-	
Fr (M)		∅ ²	10 248	-	
Pol		12	6 740	-	
USSR		39	39 681	1 511	
USA		33	7 300	-	
Ger	12	-	-		
Non-m	39	-	-		
Silver hake	ICNAF	103	45 026	2 048	
	4	2	3 637	291	
	5	101	41 389	1 757	
	USSR	72	45 026	2 048	
	USA	31	-	-	
American plaice	ICNAF	82	20 349	-	
	1	∅ ²	-	-	
	2	∅ ²	1 112	-	
	3	60	14 848	-	
	4	18	3 885	-	
	5	4	504	-	
	Can (M)	25	683	-	
	Can (N)	51	11 834	-	
	Fr (M)	-	5 793	-	
Pol	-	2 039	-		

² less than one thousand tons

Species	Subarea and Country	Catch in Thousands of Tons	Number of Sampling	
			Length	Age
<u>1967</u>				
Greenland halibut	ICNAF	22	2 507	-
	1	2	1 035	-
	2	1	307	-
	3	19	1 165	-
	4	ϕ ²	-	-
	Den (G)	-	1 035	-
	Pol	3	1 472	-
	Can (N)	17	-	-
Winter flounder	ICNAF	14	335	-
	4	2	335	-
	5	12	-	-
	Can (M)	2	335	-
	USA	12	-	-
Witch	ICNAF	21	4 919	-
	1	ϕ ²	-	-
	2	ϕ ²	-	-
	3	8	3 031	-
	4	10	1 888	-
	5	3	-	-
	Can (M)	10	1 946	-
	Can (N)	7	245	-
Fr (M)	-	2 728	-	
Yellowtail flounder	ICNAF	33	23 595	5 474
	3	2	3 608	-
	4	5	600	-
	5	26	19 387	5 474
	Can (M)	6	600	-
	Can (N)	2	3 608	-
	Pol	-	448	-
	USA	25	18 939	5 474
Pollock	ICNAF	24	999	-
	1	ϕ ²	-	-
	2	-	-	-
	3	1	-	-
	4	15	883	-
	5	8	116	-
	Can (M)	17	665	-
	Fr (M)	-	334	-

² less than one thousand tons

Species	Subarea and Country	Catch in Thousands of Tons	Number of Sampling	
			Length	Age
<u>1967</u>				
White hake	ICNAF	10	1 065	-
	3	2	-	-
	4	8	1 065	-
	5	ø ²	-	-
	Can (M)	8	1 065	-
Red hake	ICNAF	46	2 733	-
	4	1	-	-
	5	45	2 733	-
	USA	7	2 733	-
	USSR	38	-	-
ALL SPECIES	ICNAF	3 352	679 022	29 291
Cod		1 685	456 244	16 890
Haddock		117	49 259	3 368
Redfish		218	71 991	1 511
Silver hake		103	45 026	2 048
American plaice		82	20 349	-
Greenland halibut		22	2 507	-
Winter flounder		14	335	-
Witch		21	4 919	-
Yellowtail flounder		33	23 595	-
Pollock		24	999	-
White hake		10	1 065	-
Red hake		46	2 733	-
	Can (M)	659	53 584	-
	Can (N)	381	107 407	-
	Den (G)	44	22 015	3 842
	Fr (M)	150	28 643	-
	Ger	217	10 864	4 627
	Nor	59	2 786	2 786
	Pol	120	24 663	-
	Por	237	6 530	2 922
	Spa	290	36 400	307
	USSR	576	318 663	5 965
	UK	80	16 473	-
	USA	304	50 994	8 842
	Den (F)	80	-	-
	Fr (S.P.)	9	-	-
	Ice	3	-	-
	Rom	2	-	-
	Non-m	141	-	-
	1	465	46 028	11 255
	2	329	246 880	3 302
	3	1 103	209 911	3 844
	4	723	82 556	291
	5	732	93 647	10 599

² less than one thousand tons

Summary of Sampling Quantitative Data by Subarea in 1966 and 1967

(in thousands)

Subarea	1966	1967	1966	1967
ICNAF	666	679	30	29
1	64	46	12	11
2	157	247	6	3
3	197	210	2	4
4	163	82	2	0 ²
5	85	94	8	11

² less than one thousand tons

APPENDIX

Corrections to Sampling Yearbook, Volume 10

Length Frequencies - page 204

Table 108 for Division 3N should read "YELLOWTAIL" instead of "WITCH."

